SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Amendment No. 1

to

FORM S-3 REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

RIGEL PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)	94-3248524 (I.R.S. Employer Identification No.)
South San Fra (650)	terans Blvd. ancisco, CA 94080 624-1100 cluding area code, of registrant's principal executive offices)
Chief Exe Rigel Pharn 1180 Ve South San Fra (650)	M. Gower cutive Officer naceuticals, Inc. terans Blvd. uncisco, CA 94080 624-1100 ne number, including area code, of agent for service)
Suzanne Sawo Cooley G Five Palo 3000 El G Palo Alt	oies to: chka Hooper, Esq. odward LLP Alto Square Camino Real o, CA 94306 843-5000
Approximate date of commencement of proposed sale to the public: As soon as p	racticable after this Registration Statement becomes effective.
If the only securities being registered on this form are being offered pursuant to d	ividend or interest reinvestment plans, please check the following box. □
If any of the securities registered on this form are to be offered on a delayed or co offered only in connection with dividend or interest reinvestment plans, check the follow	ntinuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities being box.
If this form is filed to register additional securities for an offering pursuant to Rul registration statement number of the earlier effective registration statement for the same	e 462(b) under the Securities Act, check the following box and list the Securities Act e offering.
If this form is a post-effective amendment filed pursuant to Rule 462(c) under the number of the earlier effective registration statement for the same offering. \Box	Securities Act, check the following box and list the Securities Act registration statement
If delivery of the prospectus is expected to be made pursuant to Rule 434, please	check the following box. \Box
The Desistrant hereby amends this Desistration Statement on such data and	ates as may be passessery to delay its effective data until the Degistrant shall file a

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and is not soliciting offers to buy these securities in any state where such offer or sale is not permitted.

further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of

1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.



RIGEL PHARMACEUTICALS, INC.

Common Stock

Rigel Pharmaceuticals, Inc. is distributing to its stockholders, at no charge, non-transferable subscription rights to purchase up to an aggregate of 15,625,000 shares of Rigel common stock at a cash subscription price of \$0.64 per share. Each stockholder will receive one subscription right for each share of Rigel common stock owned of record on April 29, 2003. Each subscription right will entitle the holder to purchase of a share of Rigel common stock, rounded down in the aggregate to the nearest whole number. We refer to this as the "basic subscription privilege." Each subscription right will carry with it an over-subscription privilege for shares that are not otherwise purchased through the exercise of the basic subscription privilege.

The subscription rights will expire if they are not exercised by 5:00 p.m. Central Daylight time on , 2003, the expected expiration date of the rights offering. We, in our sole discretion, may extend the period for exercising the subscription rights. Subscription rights that are not exercised by the expiration date of the rights offering will expire and will have no value. You should carefully consider whether or not to exercise your subscription rights before the expiration date.

Investing in our common stock involves risks. You should consider carefully the risk factors beginning on page 5 before deciding whether to exercise your subscription rights.

Rigel common stock trades on the Nasdaq National Market under the symbol "RIGL."

	Per Share	Aggregate
Subscription Price	\$0.64	\$10,000,000
Estimated Expenses	\$[]	\$176,000
Net Proceeds to Rigel	\$[]	\$9,824,000

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is , 2003.

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This prospectus is part of a registration statement we filed with the Securities and Exchange Commission. You should rely only on the information we have provided or incorporated by reference in this prospectus. We have not authorized anyone to provide you with information different from that contained in this prospectus. No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus. You must not rely on any unauthorized information

or representation. This prospectus is an offer to sell only the securities offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. You should assume that the information in this prospectus is accurate only as of the date on the front of the document and that any information we have incorporated by reference is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus or any sale of a security.

Rigel Pharmaceuticals, Inc., the Rigel Pharmaceuticals, Inc. logo and all other Rigel names are trademarks of Rigel Pharmaceuticals, Inc. in the U.S. and in other selected countries. All other brand names or trademarks appearing in this prospectus, if any, are the property of their respective holders.

The rights offering will be commenced only after the completion of a private placement as described in the proxy statement filed by Rigel on May 19, 2003, which is subject to customary closing conditions. Please note that share numbers and share prices in this preliminary prospectus do not give effect to the reverse stock split anticipated to be completed prior to the rights offering as described in the proxy statement filed by Rigel on May 19, 2003.

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PROSPECTUS SUMMARY

This section answers in summary form some questions you may have about the rights offering and highlights some of the information contained elsewhere in this prospectus. Because this section is a summary, it does not contain all of the important information that you should consider before exercising the subscription rights or investing in Rigel common stock. You should read the entire prospectus carefully, including the "Risk Factors" section and the documents listed under "Where You Can Find More Information." For convenience, references in this prospectus to "we," "us" or "Rigel" mean Rigel Pharmaceuticals, Inc.

About Rigel

Rigel's mission is to become a source of novel, small-molecule drugs to meet large, unmet medical needs. Our business model is to develop a portfolio of drug candidates and to take these through Phase II clinical trials, after which we intend to seek partners for completion of clinical trials, regulatory approval and marketing. We have identified three lead product development programs: mast cell inhibition to treat immunologic diseases such as asthma/allergy and autoimmune disorders, antiviral agents to treat Hepatitis C, and ubiquitin ligases, a new class of cancer drug targets. We have begun clinical testing of our first product candidate, for the treatment of allergic rhinitis, and plan to begin clinical trials of two additional drug candidates for the treatment of Hepatitis C and rheumatoid arthritis within the next twelve months. Our approach to drug discovery is based on advanced, proprietary functional genomics techniques that allow us to identify targets with a demonstrable role in a disease pathway and to screen efficiently for those targets that are likely to be amenable to drug modulation. We were incorporated in Delaware in June 1996, and we are based in South San Francisco, California.

QUESTIONS & ANSWERS ABOUT THE RIGHTS OFFERING

What is the rights offering?

The rights offering is a distribution of non-transferable subscription rights on a pro rata basis to all of our stockholders. We are distributing subscription rights for every share of our common stock held on April 29, 2003, the record date. If all subscription rights are exercised, we will issue approximately 15,625,000 shares of our common stock in the rights offering, raising gross proceeds of approximately \$10 million.

What is the purpose of the rights offering?

We recently entered into an agreement to sell 71,874,999 shares of our common stock at \$0.64 per share and warrants to purchase an additional 14,374,997 shares of our common stock at \$0.64 per share for aggregate gross proceeds of approximately \$46 million in a private placement (the "private placement") led by MPM Capital, L.P. that includes Frazier Healthcare, Alta Partners and HBM BioVentures (the "private placement investors"). The private placement investors have waived any right to participate in the rights offering. Our primary purpose for the rights offering is to allow the holders of our common stock at the time that we signed the agreement providing for the private placement an opportunity to further invest in Rigel and restore a portion, although not all, of their proportionate interest in our common stock at the same price per share of common stock as was paid by the private placement investors. The rights offering does not include the warrants that were issued to the private placement investors. The rights offering will commence only after the completion of the private placement. Additionally, through the rights offering we hope to raise approximately \$10 million of additional capital.

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If I am a stockholder, what happens to my ownership interest in Rigel as compared to my ownership interest after the private placement?

The private placement will have a highly dilutive effect on the holders of our common stock prior to the consummation of the private placement. For purposes of example only, a stockholder who owned approximately 5.0% of our outstanding stock as of April 29, 2003 would own approximately 2.0% of the shares outstanding immediately after the private placement, assuming the issuance of 71,874,999 shares of our common stock to the private placement investors, and would own 1.7% of the shares outstanding immediately after the private placement, assuming full exercise of the warrants to purchase 14,374,997 shares of our common stock issued in the private placement. If you exercise your basic subscription privilege in full, your proportionate ownership interest in Rigel as of the time that we signed the agreement providing for the private placement, but you will restore a portion of your proportionate ownership interest. If you exercise your over-subscription privilege and receive shares pursuant to the over-subscription privilege, you will restore an increased portion of your proportionate ownership interest in Rigel as of the time that we signed the agreement providing for the private placement. If you do not exercise your subscription rights, your proportionate ownership interest in Rigel will be less than your proportionate ownership interest in Rigel will be less than your will lose any value inherent in the subscription rights.

What is a subscription right?

Each full subscription right entitles stockholders to purchase of a share of our common stock, rounded down in the aggregate to the nearest whole number, at a subscription price of \$0.64 per share and carries with it a basic subscription privilege and an over-subscription privilege. The subscription right has been calculated taking into account the waiver of any Rights held by the private placement investors.

What is the basic subscription privilege?

The basic subscription privilege of the subscription rights entitles you to purchase of a share of our common stock, rounded down in the aggregate to the nearest whole number, at the subscription price for every subscription right you hold.

What is the over-subscription privilege?

The over-subscription privilege included with the subscription rights entitles you, if you fully exercise your basic subscription privilege, to subscribe for additional shares of our common stock at the subscription price to the extent that other subscription rights holders do not exercise their subscription rights. If sufficient shares are available, we will honor all over-subscription requests in full. If over-subscription requests exceed the shares available, we will allocate the available shares pro rata among those who over-subscribed based on the number of shares subscribed for pursuant to the basic subscription privilege. "Pro rata" means in proportion to the number of shares of our common stock that you and the other subscription rights holders have purchased by exercising your basic subscription privileges on your common stock holdings.

When does the rights offering expire?

The rights offering expires at 5:00 p.m. Central Daylight time on , 2003. We may extend the expiration date until , 2003 for any reason. We may extend the expiration date until some later date if a material event occurs and we need more time to adequately disclose information to subscription rights holders. See "The Rights Offering—Expiration Date; Amendment and Termination."

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Am I required to subscribe in the rights offering?

No.

What happens if I choose not to exercise my subscription rights?

You will retain your current number of shares of our common stock even if you do not exercise your subscription rights. If you choose not to exercise your subscription rights, then the percentage of our common stock that you own will decrease.

May I sell or transfer my subscription rights if I do not want to purchase any shares?

No. The subscription rights are not transferable. Only you may exercise the subscription rights.

How do I exercise my subscription rights if my shares are held in the name of my broker, custodian bank or other nominee?

If you hold your shares in a brokerage account, custodian bank or by another nominee, you will not receive a subscription rights certificate. We will ask your broker, custodian bank or other nominee to notify you of the rights offering. If you wish to exercise your subscription rights, you will need to have your broker, custodian bank or other nominee act for you. To indicate your decision, you should complete and return to your broker, custodian bank or other nominee the form entitled "Beneficial Owner Election Form." You should receive this form from your broker, custodian bank or other nominee with the other rights offering materials. You should contact your broker, custodian bank or other nominee if you do not receive this form, but you believe you are entitled to participate in this offering.

How do I exercise my subscription rights if my shares are held in my name?

If you hold your shares directly, you will receive a subscription rights certificate. You may exercise your subscription rights by completing and signing the purchase form that appears on the back of each subscription rights certificate. You must then send the completed and signed form, along with payment in full of the subscription price for all shares of our common stock to be purchased through the basic subscription privilege and, if exercised, the over-subscription privilege, to Wells Fargo Bank MN, N.A., the subscription agent.

The subscription agent must receive these documents and the subscription payment no later than the time and date the rights offering expires.

You may also exercise your subscription rights by following the procedures for guaranteed delivery described under "The Rights Offering—Guaranteed Delivery Procedures" beginning on page 25. In this case, you must deliver the Notice of Guaranteed Delivery and subscription payment to the subscription agent by the time and date the rights offering expires. You must also deliver the properly completed subscription rights certificate to the subscription agent no later than three business days following the time and date the rights offering expires.

We have provided more detailed instructions on how to exercise your subscription rights under "The Rights Offering—Exercise of Subscription Rights" beginning on page 22 and with the subscription rights certificate accompanying this prospectus.

What should I do if I want to participate in the rights offering and I am a stockholder in a foreign country or in the armed services?

The subscription agent will mail subscription certificates to you if you are a rights holder whose address is outside the United States or if you have an army post office or a fleet post office address. To

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exercise your subscription rights, you must notify the subscription agent on or prior to 5:00 p.m. Central Daylight time on , 2003, and take all other steps that are necessary to exercise your subscription rights, on or prior to that time. If you do not follow these procedures prior to the expiration of the rights offering, your subscription rights will expire.

If I exercise rights in the rights offering, may I cancel or change my decision?

No. All exercises of subscription rights are irrevocable.

Will I be charged a sales commission or a fee if I exercise my subscription rights?

We will not charge a brokerage commission or a fee to subscription rights holders for exercising their rights. However, if you exercise your subscription rights through a broker or nominee, you will be responsible for any fees charged by your broker or nominee.

If the rights offering is not completed, will my subscription payment be refunded to me?

Yes. The subscription agent will hold all funds it receives in escrow until completion of the rights offering. If the rights offering is not completed, the subscription agent will return, without interest, all subscription payments.

What are the United States federal income tax consequences of exercising my subscription rights?

A holder of our common stock generally should not recognize income or loss for federal income tax purposes in connection with the receipt or exercise of subscription rights in the rights offering. We urge you to consult your own tax advisor with respect to the particular tax consequences of the rights offering or the related share issuance to you. See "Certain United States Federal Income Tax Consequences" on page 28.

Are there risks involved in exercising my subscription rights?

Yes. A purchase of our common stock involves a high degree of risk. You should read and carefully consider the information set forth under "Risk Factors" beginning on page 5 and the information contained elsewhere in this prospectus. You should decide whether to subscribe for our common stock based upon your own assessment of your best interests.

What is the recommendation of Rigel's board of directors regarding the rights offering?

Rigel's board of directors makes no recommendation as to whether or not you should subscribe for our common stock.

Whom should I contact with questions?

If you have questions or need assistance, please contact James Welch at:

Rigel Pharmaceuticals, Inc. 1180 Veterans Blvd. South San Francisco, CA 94080 (650) 624-1100

For further assistance on how to subscribe for shares, you may also contact the subscription agent for the rights offering by telephone at:

Wells Fargo Shareowner Services 1-800-468-9716

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RISK FACTORS

You should carefully consider the following factors, together with the other information contained in this prospectus, before exercising subscription rights or purchasing the Rigel common stock we are offering. An investment in Rigel common stock involves a high degree of risk and may not be appropriate for investors who cannot afford to lose their entire investment.

Risks Relating to the Rights Offering

As a holder of our common stock, you may suffer significant dilution of your percentage ownership of our common stock.

The private placement will have a highly dilutive effect on the holders of our common stock prior to the consummation of the private placement. If you do not exercise your subscription rights and shares are purchased by other stockholders in the rights offering, your proportionate voting and ownership interest will be further reduced and the percentage that your original shares represent of our expanded equity after exercise of the subscription rights will be diluted. For example, if you own 200,000 shares of our common stock before the rights offering, or approximately % of our outstanding common stock, and you exercise none of your subscription rights while all other subscription rights are exercised by other stockholders, then your percentage ownership would be reduced to approximately %. The magnitude of the reduction of your percentage ownership will depend upon the extent to which you subscribe in the rights offering.

The subscription price per share is not an indication of our value, and you may not be able to sell shares purchased upon the exercise of your subscription rights at a price equal to or greater than the subscription price.

The subscription price per share does not necessarily bear any relationship to the value of our assets, operations, cash flows, earnings, financial condition or any other established criteria for value. As a result, you should not consider the subscription price as an indication of the current value of our company or our common stock. We cannot assure you that you will be able to sell shares purchased in this offering at a price equal to or greater than the subscription price.

The rights offering may cause the price of our common stock to decrease immediately, and this decrease may continue.

The subscription price per share of \$0.64 equals % of the current market price of our common stock determined by averaging the closing price of our common stock on the Nasdaq National Market for the five trading days ending on , 2003. This discount, along with the number of shares we propose to issue and ultimately will issue if the rights offering is completed, may result in an immediate decrease in the market value of our common stock. This decrease may continue after the completion of the rights offering.

If you exercise your subscription rights, you may not revoke the exercise of your subscription rights, and you may be unable to sell any shares you purchase at a profit.

The public trading market price of our common stock may decline after you elect to exercise your subscription rights. If that occurs, you may have committed to buy shares of common stock at a price above the prevailing market price and you will have an immediate unrealized loss. Moreover, we cannot assure you that following the exercise of subscription rights you will be able to sell your shares of common stock at a price equal to or greater than the subscription price.

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Your ability to sell shares of our common stock purchased in the rights offering may be delayed by the time required to deliver the stock certificates.

Until shares are delivered upon expiration of the rights offering, you may not be able to sell the shares of our common stock that you purchase in the rights offering. Certificates representing shares of our common stock purchased will be delivered as soon as practicable after expiration of the rights offering.

period.

Even if our common stock price declines below the subscription price for the common stock in the rights offering, resulting in a loss on your investment upon the exercise of rights to acquire shares of our common stock, you may not revoke or change your exercise of rights after you send in your subscription forms and payment.

You may not revoke the exercise of your subscription rights even if we decide to extend the expiration date of the subscription period.

We may, in our sole discretion, extend the expiration date of the subscription period to a date no later than , 2003, unless our board of directors believes that a material event has occurred and we need more time to disclose adequately to you information about the event. During any potential extension of time, our common stock price may decline below the subscription price and result in a loss on your investment upon the exercise of rights to acquire shares of our common stock. If the expiration date is extended after you send in your subscription forms and payment, you still may not revoke or change your exercise of rights.

You will not receive interest on subscription funds returned to you.

If we cancel the rights offering, neither we nor the subscription agent will have any obligation with respect to the subscription rights except to return, without interest, any subscription payments to you.

The subscription rights are not transferable and there is no market for the subscription rights.

You may not sell, give away or otherwise transfer your subscription rights. The subscription rights are only transferable by operation of law. Because the subscription rights are non-transferable, there is no market or other means for you to directly realize any value associated with the subscription rights. You must exercise the subscription rights and acquire additional shares of our common stock to realize any value.

Because we may terminate the offering, your participation in the offering is not assured.

Once you exercise your subscription rights, you may not revoke the exercise for any reason unless we amend the offering. If we decide to terminate the offering, we will not have any obligation with respect to the subscription rights except to return any subscription payments, without interest.

If you do not act promptly and follow subscription instructions, your subscription rights may be rejected.

Stockholders who desire to purchase shares in the rights offering must act promptly to ensure that all required forms and payments are actually received by the subscription agent prior to 5:00 p.m. Central Daylight time on , 2003, the expiration date of the rights offering. If you fail to complete and sign the required subscription forms, send an incorrect payment amount, or otherwise fail to follow the subscription procedures that apply to your desired transaction, the subscription agent may,

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depending on the circumstances, reject your subscription or accept it to the extent of the payment received. Neither we nor our subscription agent undertakes to contact you concerning, or attempt to correct, an incomplete or incorrect subscription form or payment. We have the sole discretion to determine whether a subscription exercise properly follows the subscription procedures.

Risks Related to Rigel

We will need additional capital in the future to sufficiently fund our operations and research.

Our operations will require significant additional funding in large part due to our research and development expenses, future preclinical and clinical-testing costs, the expansion of our facilities and the absence of any meaningful revenues for the foreseeable future. The amount of future funds needed will depend largely on the success of our collaborations and our research activities, and we do not know whether additional financing will be available when needed, or that, if available, we will obtain financing on terms favorable to our stockholders or us. We have consumed substantial amounts of capital to date, and operating expenditures are expected to increase over the next several years as we expand our infrastructure and research and development activities.

To the extent we raise additional capital by issuing equity securities, our stockholders would at that time would experience substantial dilution. To the extent that we raise additional funds through collaboration and licensing arrangements, we may be required to relinquish some rights to our technologies or product candidates, or grant licenses on terms that are not favorable to us.

Our future funding requirements will depend on many uncertain factors.

Our future funding requirements will depend upon many factors, including, but not limited to:

- our ability to maintain our existing collaboration partnerships;
- our ability to establish, and the scope of, new collaborations;
- the progress and number of research programs carried out at Rigel;
- the progress of the research and development efforts of our collaborators;
- any changes in the breadth of our research and development programs;
- our ability to meet the milestones identified in our collaborative agreements that trigger payments;
- our ability to maintain and establish new corporate relationships and research collaborations;
- our ability to acquire or license other technologies or compounds, if any;
- the progress and success of preclinical studies and clinical trials of our drug candidates conducted by us or our collaborative partners or licensees;
- our ability to manage our growth;
- competing technological and market developments;

- the costs and timing of obtaining, enforcing and defending our patent and intellectual rights;
- the costs and timing of regulatory approvals; and
- expenses associated with unforeseen litigation.

Insufficient funds may require us to delay, scale back or eliminate some or all of our research or development programs, to lose rights under existing licenses or to relinquish greater or all rights to

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product candidates at an earlier stage of development or on less favorable terms than we would otherwise choose or may adversely affect our ability to operate as a going concern.

Our workforce reduction announced in January 2003 and any future workforce and expense reductions may have an adverse impact on our ability to make significant progress on our internal programs.

In January 2003, we announced a workforce reduction of 25 employees in order to reduce expenses. In light of our continued need for funding and expense control, we may be required to implement further workforce and expense reductions this year. Workforce and expense reductions have resulted, and further reductions could result, in reduced progress on our internal programs. In addition, employees, whether or not directly affected by a reduction, may seek future employment with our business partners or competitors. Although our employees are required to sign a confidentiality agreement at the time of hire, the confidential nature of certain proprietary information may not be maintained in the course of any such future employment. Further, we believe that our future success will depend in large part upon our ability to attract and retain highly skilled personnel. We may have difficulty attracting such personnel as a result of a perceived risk of future workforce and expense reductions. In addition, the implementation of expense reduction programs may result in the diversion of efforts of our executive management team and other key employees, which could adversely affect our business.

Our success as a company is uncertain due to our limited operating history, our history of operating losses and the uncertainty of future profitability.

Due in large part to the significant research and development expenditures required to identify and validate new drug candidates and advance our programs into clinical testing, we have not been profitable and have generated operating losses since we were incorporated in June 1996. The extent of our future losses and the timing of potential profitability are highly uncertain, and we may never achieve profitable operations. We have incurred net losses of \$37.0 million, \$23.8 million and \$25.3 million in each of the last three fiscal years, respectively. Currently, our revenues are generated solely from research payments from our collaboration agreements and licenses and are insufficient to generate profitable operations. As of March 31, 2003, we had an accumulated deficit of approximately \$122.6 million.

There is a high risk that early-stage drug discovery and development might not successfully generate good drug candidates.

At the present time, the majority of our operations are in the early stages of drug identification and development. To date, only one of our drug compounds has made it into the clinical testing stage. In our industry, it is statistically unlikely that the limited number of compounds that we have identified as potential drug candidates will actually lead to successful drug development efforts, and we do not expect any drugs resulting from our research to be commercially available for several years, if at all. Our one drug compound in the clinic and our future leads for potential drug compounds will be subject to the risks and failures inherent in the development of pharmaceutical products based on new technologies. These risks include, but are not limited to, the inherent difficulty in selecting the right drug target and avoiding unwanted side effects as well as the unanticipated problems relating to product development, testing, regulatory compliance, manufacturing, marketing, competition and costs and expenses that may exceed current estimates.

For example, we began a Phase I clinical trial of R112 in September 2002 in Britain. In this initial safety study, conducted with healthy volunteers, no significant adverse events were observed. The data from this trial was incorporated into an investigational new drug, or IND, application that was filed with the United States Food and Drug Administration, or FDA, in November 2002. Approval to proceed was received from the FDA in December 2002 and a clinical trial is now underway at National

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Jewish Medical Center in Denver, Colorado. The clinical trial will evaluate the effectiveness of R112 in patients with documented allergies. We expect to have the preliminary initial results of this study in July or August of 2003. We cannot predict the results of this study or the impact the results will have on our business.

We might not be able to commercialize our drug candidates successfully if problems arise in the clinical testing and approval process.

Commercialization of our product candidates depends upon successful completion of preclinical studies and clinical trials. Preclinical testing and clinical development are long, expensive and uncertain processes. We do not know whether we, or any of our collaborative partners, will be permitted to undertake clinical trials of potential products beyond the one trial already concluded and the trial currently in process. It may take us or our collaborative partners several years to complete any such testing, and failure can occur at any stage of testing. Interim results of trials do not necessarily predict final results, and acceptable results in early trials may not be repeated in later trials. A number of companies in the pharmaceutical industry, including biotechnology companies, have suffered significant setbacks in advanced clinical trials, even after achieving promising results in earlier trials. Moreover, when our projects reach clinical trials, we or our collaborative partners may decide to discontinue development of any or all of these projects at any time for commercial, scientific or other reasons.

Delays in clinical testing could result in increased costs to us.

Significant delays in clinical testing could materially impact our product development costs. We do not know whether planned clinical trials will begin on time, will need to be revamped or will be completed on schedule, or at all. Clinical trials can be delayed for a variety of reasons, including delays in obtaining regulatory approval to commence a study, delays in reaching agreement on acceptable clinical study agreement terms with prospective clinical sites, delays in obtaining institutional review board approval to conduct a study at a prospective clinical site or delays in recruiting subjects to participate in a study.

In addition, we typically rely on third-party clinical investigators to conduct our clinical trials and other third-party organizations to oversee the operations of such trials and to perform data collection and analysis. As a result, we may face additional delaying factors outside our control if these parties do not perform their obligations in a timely fashion. While we have not yet experienced delays that have materially impacted our clinical trials or product development costs, delays of this sort could occur for the reasons identified above or other reasons. If we have delays in testing or approvals, our product development costs will increase. For example, we may need to make additional payments to third-party investigators and organizations to retain their services or we may need to pay recruitment incentives. If the delays are significant, our financial results and the commercial prospects for our product candidates will be harmed, and our ability to become profitable will be delayed.

Because most of our expected future revenues are contingent upon collaborative and license agreements, we might not meet our strategic objectives.

Our ability to generate revenues in the near term depends on our ability to enter into additional collaborative agreements with third parties and to maintain the agreements we currently have in place. Our ability to enter into new collaborations and the revenue, if any, that may be recognized under these collaborations is highly uncertain. If we are unable to enter into new collaborations, our business prospects could be harmed, which could have an immediate adverse effect on the trading price of our stock.

To date, most of our revenues have been related to the research phase of each of our collaborative agreements. Such revenues are for specified periods, and the impact of such revenues on our results of

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operations is partially offset by corresponding research costs. Following the completion of the research phase of each collaborative agreement, additional revenue may come only from milestone payments and royalties, which may not be paid, if at all, until some time well into the future. The risk is heightened due to the fact that unsuccessful research efforts may preclude us from receiving any milestone payments under these agreements. Our receipt of revenue from collaborative arrangements is also significantly affected by the timing of efforts expended by us and our collaborators and the timing of lead compound identification. In late 2001, we recorded the first revenue from achievement of milestones in both the Pfizer and Johnson & Johnson collaborations. During 2002, we recorded our first milestone for both Novartis and Daiichi. Under many agreements, however, milestone payments may not be earned until the collaborator has advanced products into clinical testing, which may never occur or may not occur until some time well into the future. If we are not able to recognize revenue under our collaborations when and in accordance with our expectations or the expectations of industry analysts, this failure could harm our business and have an immediate adverse effect on the trading price of our stock.

Our business requires us to generate meaningful revenue from royalties and licensing agreements. To date, we have not received any revenue from royalties for the commercial sale of drugs, and we do not know when we will receive any such revenue, if at all. Likewise, we have not licensed any lead compounds or drug development candidates to third parties, and we do not know whether any such license will be entered into on acceptable terms in the future, if at all.

If our current corporate collaborations or license agreements are unsuccessful, our research and development efforts could be delayed.

Our strategy depends upon the formation and sustainability of multiple collaborative arrangements and license agreements with third parties in the future. We rely on these arrangements for not only financial resources, but also for expertise that we expect to need in the future relating to clinical trials, manufacturing, sales and marketing, and for licenses to technology rights. To date, we have entered into several such arrangements with corporate collaborators; however, we do not know if such third parties will dedicate sufficient resources or if any development or commercialization efforts by third parties will be successful. Should a collaborative partner fail to develop or commercialize a compound or product to which it has rights from us, such failure might delay ongoing research and development efforts at Rigel because we might not receive any future milestone payments and we would not receive any royalties associated with such compound or product. In addition, the continuation of some of our partnered drug discovery and development programs may be dependent on the periodic renewal of our corporate collaborations. For example, the funded research phase of our collaboration with Pfizer has been completed and the development portion of our collaboration is ongoing at Pfizer. In addition, in May 2002, Novartis elected to conclude the research phases of our two initial joint projects in the autoimmunity and transplant rejection areas, after 42 months, effective November 2002 and February 2003, respectively. Pursuant to the collaboration agreement, Novartis had the option to end the research phase on these programs after 24 months or 42 months. More generally, our current corporate collaboration agreements may terminate upon a breach or a change of control. We may not be able to renew these collaborations on acceptable terms, if at all, or negotiate additional corporate collaborations on acceptable terms, if at all.

Conflicts also might arise with collaborative partners concerning proprietary rights to particular compounds. While our existing collaborative agreements typically provide that we retain milestone payments and royalty rights with respect to drugs developed from certain derivative compounds, any such payments or royalty rights may be at reduced rates, and disputes may arise over the application of derivative payment provisions to such drugs, and we may not be successful in such disputes.

We are also a party to various license agreements that give us rights to use specified technologies in our research and development processes. The agreements pursuant to which we have in-licensed

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technology permit our licensors to terminate the agreements under certain circumstances. If we are not able to continue to license these and future technologies on commercially reasonable terms, our product development and research may be delayed.

If conflicts arise between our collaborators or advisors and us, any of them may act in their self-interest, which may be adverse to your interests.

If conflicts arise between us and our corporate collaborators or scientific advisors, the other party may act in its self-interest and not in the interest of our stockholders. Some of our corporate collaborators are conducting multiple product development efforts within each disease area that is the subject of the collaboration with us. In some of our collaborations, we have agreed not to conduct, independently or with any third party, any research that is competitive with the research conducted under our collaborations. Our collaborators, however, may develop, either alone or with others, products in related fields that are competitive with the products or potential products that are the subject of these collaborations. Competing products, either developed by our collaborators or to which our collaborators have rights, may result in their withdrawal of support for our product candidates.

If any of our corporate collaborators were to breach or terminate its agreement with us or otherwise fail to conduct the collaborative activities successfully and in a timely manner, the preclinical or clinical development or commercialization of the affected product candidates or research programs could be delayed or terminated. We generally do not control the amount and timing of resources that our corporate collaborators devote to our programs or potential products. We do not know whether current or future collaborative partners, if any, might pursue alternative technologies or develop alternative products either on their own or in collaboration with others, including our competitors, as a means for developing treatments for the diseases targeted by collaborative arrangements with us.

If we fail to enter into new collaborative arrangements in the future, our business and operations would be negatively impacted.

Although we have established several collaborative arrangements and various license agreements, we do not know if we will be able to establish additional arrangements in the future. For example, there have been, and may continue to be, a significant number of recent business combinations among large pharmaceutical companies that have resulted, and may continue to result, in a reduced number of potential future corporate collaborators, which may limit our ability to find partners who will work with us in developing and commercializing our drug targets. We entered into only one collaboration, with Daiichi, in 2002. If business combinations involving our existing corporate collaborators were to occur, the effect could be to diminish, terminate or cause delays in one or more of our corporate collaborations.

Our success is dependent on intellectual property rights held by us and third parties, and our interest in such rights is complex and uncertain.

Our success will depend to a large part on our own, our licensees' and our licensors' ability to obtain and defend patents for each party's respective technologies and the compounds and other products, if any, resulting from the application of such technologies. We have over 100 pending patent applications and 25 issued patents in the United States that are owned or exclusively licensed in our field as well as pending corresponding foreign patent applications. In the future, our patent position might be highly uncertain and involve complex legal and factual questions. Additional uncertainty may result from because no consistent policy regarding the breadth of legal claims allowed in

Because the degree of future protection for our proprietary rights is uncertain, we cannot ensure that:

- we were the first to make the inventions covered by each of our pending patent applications;
- · we were the first to file patent applications for these inventions;
- others will not independently develop similar or alternative technologies or duplicate any of our technologies;
- any of our pending patent applications will result in issued patents;
- any patents issued to us or our collaborators will provide a basis for commercially viable products or will provide us with any competitive advantages or will not be challenged by third parties;
- · we will develop additional proprietary technologies that are patentable; or
- the patents of others will not have a negative effect on our ability to do business.

We rely on trade secrets to protect technology where we believe patent protection is not appropriate or obtainable. However, trade secrets are difficult to protect. While we require employees, collaborators and consultants to enter into confidentiality agreements, we may not be able to adequately protect our trade secrets or other proprietary information in the event of any unauthorized use or disclosure or the lawful development by others of such information.

We are a party to certain in-license agreements that are important to our business, and we generally do not control the prosecution of in-licensed technology. Accordingly, we are unable to exercise the same degree of control over this intellectual property as we exercise over our internally-developed technology. Moreover, some of our academic institution licensors, research collaborators and scientific advisors have rights to publish data and information in which we have rights. If we cannot maintain the confidentiality of our technology and other confidential information in connection with our collaborations, then our ability to receive patent protection or protect our proprietary information will be impaired. In addition, some of the technology we have licensed relies on patented inventions developed using U.S. government resources. The U.S. government retains certain rights, as defined by law, in such patents, and may choose to exercise such rights.

If a dispute arises regarding the infringement or misappropriation of the proprietary rights of others, such dispute could be costly and result in delays in our research and development activities.

Our success will also depend, in part, on our ability to operate without infringing or misappropriating the proprietary rights of others. There are many issued patents and patent applications filed by third parties relating to products or processes that are similar or identical to ours or our licensors, and others may be filed in the future. There can be no assurance that our activities, or those of our licensors, will not infringe patents owned by others. For example, in June 2002, we resolved a dispute with Inoxell A/S (formed as a spinout from Pharmexa—formally M&E Biotech) by entering into a global patent settlement concerning certain drug target identification technologies, which includes both cross-licensing and joint ownership to certain patents and allows for worldwide freedom of operation for both companies. We believe that there may be significant litigation in the industry regarding patent and other intellectual property rights, and we do not know if we or our collaborators would be successful in any such litigation. Any legal action against our collaborators or us

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claiming damages or seeking to enjoin commercial activities relating to the affected products, our methods or processes could:

- require our collaborators or us to obtain a license to continue to use, manufacture or market the affected products, methods or processes, which may not be
 available on commercially reasonable terms, if at all;
- prevent us from using the subject matter claimed in the patents held by others;
- subject us to potential liability for damages;
- consume a substantial portion of our managerial and financial resources; and
- result in litigation or administrative proceedings that may be costly, whether we win or lose.

If we are unable to obtain regulatory approval to market products in the United States and foreign jurisdictions, we might not be permitted to commercialize products from our research and development.

Due, in part, to the early stage of our drug candidate research and development process, we cannot predict whether regulatory clearance will be obtained for any product that we, or our collaborative partners, hope to develop. Satisfaction of regulatory requirements typically takes many years, is dependent upon the type, complexity and novelty of the product and requires the expenditure of substantial resources. Of particular significance to us are the requirements relating to research and development and testing.

Before commencing clinical trials in humans in the United States, we, or our collaborative partners, will need to submit and receive approval from the FDA of an IND. Clinical trials are subject to oversight by institutional review boards and the FDA and:

- must be conducted in conformance with the FDA's good clinical practices and other applicable regulations;
- must meet requirements for institutional review board oversight;
- · must meet requirements for informed consent;

- are subject to continuing FDA oversight;
- may require large numbers of test subjects; and
- may be suspended by us or the FDA at any time if it is believed that the subjects participating in these trials are being exposed to unacceptable health risks or if the FDA finds deficiencies in the IND or the conduct of these trials.

While we have stated that we intend to file additional INDs, this is only a statement of intent, and we may not be able to do so because we may not be able to identify potential product candidates. In addition, the FDA may not approve any IND in a timely manner, or at all.

Before receiving FDA clearance to market a product, we must demonstrate that the product is safe and effective on the patient population that will be treated. Data obtained from preclinical and clinical activities are susceptible to varying interpretations that could delay, limit or prevent regulatory clearances. In addition, delays or rejections may be encountered based upon additional government regulation from future legislation or administrative action or changes in FDA policy during the period of product development, clinical trials and FDA regulatory review. Failure to comply with applicable FDA or other applicable regulatory requirements may result in criminal prosecution, civil penalties, recall or seizure of products, total or partial suspension of production or injunction, as well as other regulatory action against our potential products or us. Additionally, we have limited experience in conducting and managing the clinical trials necessary to obtain regulatory approval.

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If regulatory clearance of a product is granted, this clearance will be limited to those disease states and conditions for which the product is demonstrated through clinical trials to be safe and efficacious. We cannot ensure that any compound developed by us, alone or with others, will prove to be safe and efficacious in clinical trials and will meet all of the applicable regulatory requirements needed to receive marketing clearance.

Outside the United States, our ability, or that of our collaborative partners, to market a product is contingent upon receiving a marketing authorization from the appropriate regulatory authorities. This foreign regulatory approval process typically includes all of the risks associated with FDA clearance described above and may also include additional risks.

If our competitors develop technologies that are more effective than ours, our commercial opportunity will be reduced or eliminated.

The biotechnology and pharmaceutical industries are intensely competitive and subject to rapid and significant technological change. Many of the drugs that we are attempting to discover will be competing with existing therapies. In addition, a number of companies are pursuing the development of pharmaceuticals that target the same diseases and conditions that we are targeting. We face competition from pharmaceutical and biotechnology companies both in the United States and abroad.

Our competitors may utilize discovery technologies and techniques or partner with collaborators in order to develop products more rapidly or successfully than we, or our collaborators, are able to do. Many of our competitors, particularly large pharmaceutical companies, have substantially greater financial, technical and human resources than we do. In addition, academic institutions, government agencies and other public and private organizations conducting research may seek patent protection with respect to potentially competitive products or technologies and may establish exclusive collaborative or licensing relationships with our competitors.

We believe that our ability to compete is dependent, in part, upon our ability to create, maintain and license scientifically-advanced technology and upon our and our strategic partners' ability to develop and commercialize pharmaceutical products based on this technology, as well as our ability to attract and retain qualified personnel, obtain patent protection or otherwise develop proprietary technology or processes and secure sufficient capital resources for the expected substantial time period between technological conception and commercial sales of products based upon our technology. The failure by us or any of our collaborators in any of those areas may prevent the successful commercialization of our potential drug targets.

Our competitors might develop technologies and drugs that are more effective or less costly than any that are being developed by us or that would render our technology and potential drugs obsolete and noncompetitive. In addition, our competitors may succeed in obtaining the approval of the FDA or other regulatory agencies for drug candidates more rapidly. Companies that complete clinical trials, obtain required regulatory agency approvals and commence commercial sale of their drugs before their competitors may achieve a significant competitive advantage, including certain patent and FDA marketing exclusivity rights that would delay or prevent our ability to market certain products. Any drugs resulting from our research and development efforts, or from our joint efforts with our existing or future collaborative partners, might not be able to compete successfully with competitors' existing or future products under development or obtain regulatory approval in the United States or elsewhere.

Our ability to generate revenues will be diminished if our collaborative partners fail to obtain acceptable prices or an adequate level of reimbursement for products from third-party payors.

The drugs we hope to develop may be rejected by the marketplace due to many factors, including cost. Our ability to commercially exploit a drug may be limited due to the continuing efforts of

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government and third-party payors to contain or reduce the costs of health care through various means. For example, in some foreign markets, pricing and profitability of prescription pharmaceuticals are subject to government control. In the United States, we expect that there will continue to be a number of federal and state proposals to implement similar government control. In addition, increasing emphasis on managed care in the United States will likely continue to put pressure on the pricing of pharmaceutical products. Cost control initiatives could decrease the price that any of our collaborators would receive for any products in the future. Further, cost control initiatives could adversely affect our collaborators' ability to commercialize our products and our ability to realize royalties from this commercialization.

Our ability to commercialize pharmaceutical products with collaborators may depend, in part, on the extent to which reimbursement for the products will be available from:

- government and health administration authorities;
- private health insurers; and
- other third-party payors.

Significant uncertainty exists as to the reimbursement status of newly-approved healthcare products. Third-party payors, including Medicare, are challenging the prices charged for medical products and services. Government and other third-party payors increasingly are attempting to contain healthcare costs by limiting both coverage and the level of reimbursement for new drugs and by refusing, in some cases, to provide coverage for uses of approved products for disease indications for which the FDA has not granted labeling approval. Third-party insurance coverage may not be available to patients for any products we discover and develop, alone or with collaborators. If government

and other third-party payors do not provide adequate coverage and reimbursement levels for our products, the market acceptance of these products may be reduced.

If product liability lawsuits are successfully brought against us, we may incur substantial liabilities and may be required to limit commercialization of our products.

The testing and marketing of medical products entail an inherent risk of product liability. If we cannot successfully defend ourselves against product liability claims, we may incur substantial liabilities or be required to limit commercialization of our products. We currently do not have product liability insurance, and our inability to obtain sufficient product liability insurance at an acceptable cost to protect against potential product liability claims could prevent or inhibit the commercialization of pharmaceutical products we develop, alone or with corporate collaborators. We, or our corporate collaborators, might not be able to obtain insurance at a reasonable cost, if at all. While under various circumstances we are entitled to be indemnified against losses by our corporate collaborators, indemnification may not be available or adequate should any claim arise.

Our research and development efforts will be seriously jeopardized, if we are unable to attract and retain key employees and relationships.

As a small company with only 134 employees as of May 15, 2003, our success depends on the continued contributions of our principal management and scientific personnel and on our ability to develop and maintain important relationships with leading academic institutions, scientists and companies in the face of intense competition for such personnel. In particular, our research programs depend on our ability to attract and retain highly skilled chemists, other scientists, and regulatory and clinical personnel. If we lose the services of any of our personnel, our research and development efforts could be seriously and adversely affected. Our employees can terminate their employment with us at any time.

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We depend on various scientific consultants and advisors for the success and continuation of our research efforts.

We work extensively with various scientific consultants and advisors. The potential success of our drug discovery programs depends, in part, on continued collaborations with certain of these consultants and advisors. We, and various members of our management and research staff, rely on certain of these consultants and advisors for expertise in our research, regulatory and clinical efforts. Our scientific advisors are not employees of ours and may have commitments to, or consulting or advisory contracts with, other entities that may limit their availability to us. We do not know if we will be able to maintain such consulting agreements or that such scientific advisors will not enter into consulting arrangements, exclusive or otherwise, with competing pharmaceutical or biotechnology companies, any of which would have a detrimental impact on our research objectives and could have a material adverse effect on our business, financial condition and results of operations.

If we use biological and hazardous materials in a manner that causes injury or violates laws, we may be liable for damages.

Our research and development activities involve the controlled use of potentially harmful biological materials as well as hazardous materials, chemicals and various radioactive compounds. We cannot completely eliminate the risk of accidental contamination or injury from the use, storage, handling or disposal of these materials. In the event of contamination or injury, we could be held liable for damages that result, and such liability could exceed our resources. We are subject to federal, state and local laws and regulations governing the use, storage, handling and disposal of these materials and specified waste products. The cost of compliance with, or any potential violation of, these laws and regulations could be significant.

Our facilities are located near known earthquake fault zones, and the occurrence of an earthquake or other catastrophic disaster could cause damage to our facilities and equipment, which could require us to cease or curtail operations.

Our facilities are located in the San Francisco Bay Area near known earthquake fault zones and are vulnerable to significant damage from earthquakes. We are also vulnerable to damage from other types of disasters, including fires, floods, power loss, communications failures and similar events. If any disaster were to occur, our ability to operate our business at our facilities would be seriously, or potentially completely, impaired, and our research could be lost or destroyed. In addition, the unique nature of our research activities and of much of our equipment could make it difficult for us to recover from a disaster. The insurance we maintain may not be adequate to cover or losses resulting from disasters or other business interruptions.

If our officers, directors and largest stockholders choose to act together, they may be able to significantly affect our management and operations, acting in their best interests and not necessarily those of other stockholders.

Our directors, executive officers and principal stockholders and their affiliates beneficially own approximately 46% of our common stock, based on their beneficial ownership as of April 29, 2003. Accordingly, they collectively will have the ability to significantly affect the election of all of our directors and the outcome of most corporate actions requiring stockholder approval. They may exercise this ability in a manner that advances their best interests and not necessarily those of other stockholders.

On April 29, 2003, we entered into a definitive agreement for the sale of \$46.0 million of newly issued shares of common stock and warrants to purchase common stock in a private placement led by MPM Capital, L.P. that includes Frazier Healthcare, Alta Partners and HBM BioVentures. Under the

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terms of the agreement, we have agreed to issue to the investors 71,874,999 shares of common stock at a price of \$0.64 per share and warrants to purchase an additional 14,374,997 shares of common stock at an exercise price of \$0.64 per share. As a result of their combined approximate 70% ownership (without giving effect to the exercise of the warrants and assuming 46,376,004 shares outstanding on April 29, 2003), the investors would have control over Rigel following the closing of the transactions contemplated by the purchase agreement. If we successfully consummate the proposed private placement, the investors would hold the requisite percentage of our outstanding shares so as to permit them, if they chose to act in concert, to take actions requiring stockholder approval without obtaining the approval of our other stockholders. In addition, we would use our commercially reasonable best efforts to elect designees of MPM Capital as two of our nine board members as of the closing of the private placement.

Our stock price may be volatile, and your investment in our stock could decline in value.

The market prices for our securities and those of other biotechnology companies have been highly volatile and may continue to be highly volatile in the future. The following factors, in addition to other risk factors described in this section, may have a significant impact on the market price of our common stock:

- the receipt or failure to receive the significant amount of additional funding necessary to conduct our business;
- the progress and success of preclinical studies and clinical trials of our drug candidates conducted by us or our collaborative partners or licensees;
- announcements of technological innovations or new commercial products by our competitors or us;
 - developments concerning proprietary rights, including patents;

- developments concerning our collaborations;
- publicity regarding actual or potential medical results relating to products under development by our competitors or us;
- regulatory developments in the United States and foreign countries;
- litigation;
- · economic and other external factors or other disaster or crisis; and
- · period-to-period fluctuations in financial results.

Anti-takeover provisions in our charter documents and under Delaware law may make an acquisition of us, which may be beneficial to our stockholders, more difficult.

Provisions of our amended and restated certificate of incorporation and bylaws, as well as provisions of Delaware law, could make it more difficult for a third party to acquire us, even if doing so would benefit our stockholders. These provisions:

- establish that members of the board of directors may be removed only for cause upon the affirmative vote of stockholders owning at least two-thirds of our capital stock;
- authorize the issuance of "blank check" preferred stock that could be issued by our board of directors to increase the number of outstanding shares and thwart a
 takeover attempt;
- · limit who may call a special meeting of stockholders;

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- prohibit stockholder action by written consent, thereby requiring all stockholder actions to be taken at a meeting of our stockholders;
- establish advance notice requirements for nominations for election to the board of directors or for proposing matters that can be acted upon at stockholder meetings; and
- provide for a board of directors with staggered terms.

In addition, Section 203 of the Delaware General Corporation Law, which imposes certain restrictions relating to transactions with major stockholders, may discourage, delay or prevent a third party from acquiring us.

FORWARD LOOKING STATEMENTS

Some of the statements in this prospectus and the documents incorporated by reference other than statements of historical fact are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, that are subject to the "safe harbor" created by those sections. These forward-looking statements include but are not limited to statements about:

- risks associated with the success of research and product development programs;
- results achieved in future preclinical studies and clinical trials;
- sufficiency of our cash resources;
- dependence on revenues from existing and new collaborations;
- uncertainty of product development, need for additional capital and uncertainty of change;
- our research and development and other expenses;
- our operations and legal risks;
- governmental regulation and the regulatory approval process;
- uncertainty of health care reform measures;
- uncertainty of potential proprietary rights;
- the scope and validity of patents;
- our proprietary technology and corporate partnerships;
- dependence on key personnel;
- history of operating losses and anticipation of future losses;
- competitive technologies and products;
- management of growth and risks of acquiring new technologies; and
- our ability to complete the rights offering and the timing thereof.

These forward looking statements are generally identified by words such as "aynest" "enticipate" "intend " "heliaya " "hone " "ass

These forward-looking statements are generally identified by words such as "expect," "anticipate," "intend," "believe," "hope," "assume," "estimate," "plan," "will" and other similar words and expressions. Discussions containing these forward-looking statements may be found, among other places, in "Business" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" incorporated by reference from our most recent annual report on Form 10-K, as well as any amendments thereto reflected in subsequent filings with the Securities and Exchange Commission. These forward-looking statements involve risks and uncertainties that could cause our actual results to differ materially from those in the forward-looking statements. Reference is made to discussion about

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risks that may affect our business under "Risk Factors" above. We do not undertake any obligation to update forward-looking statements. The risks contained in this prospectus, among other things, should be considered in evaluating our prospects and future financial performance.

USE OF PROCEEDS

Our gross proceeds from the rights offering depend on the number of shares that are purchased. If all of the subscription rights offered by this prospectus are exercised, then we will receive approximately \$10 million. We currently intend to use the net proceeds from the rights offering for research and development and general corporate purposes. We may also use a portion of the net proceeds to acquire or invest in businesses, products and technologies that are complementary to our own, although we currently are not planning or negotiating any such transactions. Pending these uses, the net proceeds will be invested in investment-grade, interest-bearing securities.

THE RIGHTS OFFERING

Before exercising any subscription rights, you should read carefully the information set forth under "Risk Factors."

The subscription rights

We will distribute to each holder of our common stock on the record date, which was 5:00 p.m. Central Daylight time on April 29, 2003, at no charge, one non-transferable subscription right for each share of our common stock owned. If all subscription rights are exercised, we will sell a total of approximately 15,625,000 shares of our common stock. The subscription rights will be evidenced by non-transferable subscription rights certificates. Although we will distribute subscription rights to each of our stockholders on the record date, the private placement investors have waived any subscription privileges in order to enhance the subscription privileges of our other common stockholders.

Each subscription right will allow you to purchase of a share of our common stock, rounded down to the nearest whole number, at the subscription price of \$0.64 per share. If you elect to exercise your basic subscription privilege in full, you will also be entitled to subscribe, at the subscription price, for additional shares of our common stock under your over-subscription privilege to the extent that other stockholders do not exercise their basic subscription privileges in full. If the number of shares available after satisfaction of all basic subscriptions is insufficient to satisfy fully all elections to exercise the over-subscription privilege, we will allocate the excess shares pro rata among those over-subscription. We will base the pro rata allocation on the number of shares subscribed for pursuant to the basic subscription privilege. The opportunity to exercise the over-subscription privilege is available to all subscription rights holders on the same terms.

If you hold your shares in a brokerage account or by a custodian bank or other nominee, you will not receive a subscription rights certificate, and your subscription rights must be exercised through the broker, custodian bank or other nominee. The following describes the rights offering in general and assumes (unless specifically provided otherwise) that you are a record holder of our common stock. If you hold your shares in a brokerage account or by a custodian bank or other nominee, please contact your broker, custodian bank or other nominee to participate in the rights offering.

If you hold your shares directly, you will receive a non-transferable subscription rights certificate. As a holder of subscription rights you will be entitled to two subscription privileges: (1) a basic subscription privilege and (2) an over-subscription privilege. These privileges are described below.

We will not issue fractional shares in the rights offering, but rather will round down any fractional shares to the nearest whole share. For example, if you exercise 100 subscription rights, you will receive

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shares of our common stock, instead of shares of our common stock you would have received without rounding.

Your purchase of shares of our common stock pursuant to the rights offering is not conditioned upon the subscription of any minimum number of shares by you and the other holders of the subscription rights.

Before exercising any subscription rights, you should read the information set forth under "Risk Factors" beginning on page 5 carefully.

Expiration date; amendments and termination

You may exercise the basic subscription privilege and the over-subscription privilege at any time before 5:00 p.m. Central Daylight time on , 2003, the expiration date for the rights offering. We may, in our sole discretion, extend the time for exercising the subscription rights. We will not extend the date the subscription rights expire beyond , 2003, unless our board of directors believes that a material event has occurred and we need more time to disclose adequately to you the information about the event. If the commencement of the rights offering is delayed for a period of time, the expiration date of the rights offering will be similarly extended. If we elect to extend the date the subscription rights expire, we will issue a press release announcing the extension before the first Nasdaq National Market trading day after the most recently announced expiration date.

We reserve the right, in our sole discretion, to amend, terminate or modify the terms of the rights offering. If we terminate the rights offering, all affected subscription rights will expire without value and we will promptly return all of your subscription payments to you, without interest or deduction.

If you do not exercise your subscription rights before the time they expire, then your subscription rights will be null and void. We will not be obligated to honor your exercise of subscription rights if the subscription agent receives the documents relating to your exercise after the time they expire, regardless of when you transmitted the documents, except when you have timely transmitted the documents pursuant to the guaranteed delivery procedures described below.

Subscription privileges

Your subscription rights entitle you to the basic subscription privilege and the over-subscription privilege.

Basic Subscription Privilege. With the basic subscription privilege, you may purchase of a share of our common stock, rounded down in the aggregate to the nearest whole number, per subscription right, upon delivery of the required documents and payment of the subscription price of \$0.64 per share, before the time the subscription rights expire. You are not required to exercise all of your subscription rights unless you wish to purchase shares under your over-subscription privilege. We will deliver to the record holders who purchase share in the rights offering certificates representing the shares purchased with a holder's basic subscription privilege as soon as practicable after the rights offering has expired.

Over-Subscription Privilege. In addition to your basic subscription privilege, you may subscribe for additional shares of our common stock, upon delivery of the required documents and payment of the subscription price of \$0.64 per share before the time the subscription rights expire, if you exercised your basic subscription privilege in full and other holders of subscription rights do not exercise their basic subscription privileges in full.

Pro Rata Allocation. If there are not enough shares to satisfy all subscriptions pursuant to the exercise of the over-subscription privilege, we will allocate the remaining shares pro rata (subject to the elimination of fractional shares) among those over-subscribing. Pro rata means in proportion to the

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number of shares you and the other holders have purchased by exercising the basic subscription privileges. If there is a pro rata allocation of the remaining shares and the pro ration results in the allocation to you of a greater number of shares than you subscribed for pursuant to the over-subscription privilege, then we will allocate to you only the number of shares for which you subscribed. We will allocate the remaining shares among all other holders exercising their over-subscription privilege.

Full Exercise of the Basic Subscription Privilege. You may exercise the over-subscription privilege only if you exercise your basic subscription privilege in full. To determine if you have fully exercised your basic subscription privilege, we will consider only the basic subscription privileges held by you in the same capacity. For example, suppose you were granted subscription rights for shares of our common stock you own individually and shares of our common stock you own collectively with your spouse. If you wish to exercise your over-subscription privilege with respect to the subscription rights you own individually, but not with respect to subscription rights you own collectively with your spouse, you only need to exercise your basic subscription privilege with respect to your individually owned subscription rights. You do not have to subscribe for any shares under the basic subscription privilege owned collectively with your spouse to exercise your individual over-subscription privilege.

When you complete the portion of the subscription rights certificate to exercise your over-subscription privilege, you will be representing and certifying that you have fully exercised your basic subscription privilege as to shares of our common stock you hold in that capacity. You must exercise your over-subscription privilege at the same time you exercise your basic subscription privilege in full.

If you own your shares of our common stock through your bank, broker or other nominee holder who will exercise your over-subscription privilege on your behalf, the nominee holder will be required to certify to us and the subscription agent:

- the number of shares held on the record date on your behalf;
- the number of subscription rights you exercised under your basic subscription privilege;
- that your entire basic subscription privilege held in the same capacity has been exercised in full; and
- the number of shares of common stock you subscribed for pursuant to the over-subscription privilege.

Your nominee holder must also disclose to us certain other information received from you.

If you exercise less than all of the subscription rights evidenced by your subscription rights certificate by so indicating on your subscription rights certificate, the subscription agent will, if you so request, issue to you a new rights certificate evidencing the unexercised subscription rights. A new subscription rights certificate will be issued to you according to your instructions upon the partial exercise of subscription rights only if the subscription agent receives a properly endorsed subscription rights certificate no later than the fifth business day prior to the expiration date of the rights offering. After that date no new subscription rights certificates will be issued. Accordingly, after such date if you exercise less than all of your subscription rights you will lose the power to exercise your remaining subscription rights.

Return of Excess Payment. If you exercised your over-subscription privilege and are allocated less than all of the shares of our common stock for which you wished to subscribed, your excess payment for shares that were not allocated to you will be returned to you by mail, without interest or deduction, as soon as practicable after the expiration date of the rights offering. We will deliver to the record holders who purchase shares in the rights offering certificates representing the shares of our common

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stock that were purchased as soon as practicable after the expiration date of the rights offering and after all pro rata allocations and adjustments have been completed.

Transferability of Subscription Rights. You may not transfer your subscription rights. Only you may exercise your subscription rights.

Subscription Price. To exercise your subscription rights, you must pay in cash the subscription price of \$0.64 per share of our common stock.

Record date

The record date for the rights offering was April 29, 2003, at 5:00 p.m., Central Daylight time.

Subscription agent

We have appointed Wells Fargo Bank as subscription agent for the rights offering. We will pay the fees and expenses of the subscription agent. We also have agreed to indemnify the subscription agent from certain liabilities that it may incur in connection with the rights offering. Wells Fargo's telephone number is (800) 468-9716.

Exercise of subscription rights

You may exercise your subscription rights by delivering the following to the subscription agent at or before 5:00 p.m. Central Daylight time on expiration date of the rights offering:

- your properly completed and executed subscription rights certificate evidencing those subscription rights with any required signature guarantees or other supplemental documentation; and
- your payment in full of the subscription price for each share of our common stock subscribed for under your basic subscription privilege and over-subscription privilege.

If you are a beneficial owner of shares of our common stock whose shares are registered in the name of a broker, custodian bank or other nominee, you should instruct your broker, custodian bank or other nominee to exercise your subscription rights and deliver all documents and payment on your behalf prior to 5:00 p.m. Central Daylight time on , 2003, the expiration date of the rights offering.

Your subscription rights will not be considered exercised unless the subscription agent receives from you, your broker, custodian or nominee, as the case may be, all of the required documents and your full subscription price payment prior to 5:00 p.m. Central Daylight time on , 2003, the expiration date of the rights offering.

Once you exercise your subscription rights, you cannot revoke your subscription. In order to exercise your subscription rights, you must exercise them before they expire.

Method of payment

Your payment of the subscription price must be made in U.S. dollars for the full number of shares of our common stock for which you are subscribing by either:

- · check or bank draft drawn upon a U.S. bank or postal, telegraphic or express money order payable to Wells Fargo Bank, as subscription agent; or
- wire transfer of immediately available funds to the account maintained by the subscription agent for such purpose at Wells Fargo Bank, MN, N.A., ABA No. 091000019, Account No. 1067899 (marked: "Rigel Pharmaceuticals, Inc. Subscription").

Receipt of Payment

Your payment of the subscription price will be deemed to have been received by the subscription agent only upon:

- clearance of any uncertified check;
- · receipt by the subscription agent of any certified check or bank draft drawn upon a U.S. bank or any postal, telegraphic or express money order; or
- receipt of collected funds in the subscription agent's account designated above.

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Clearance of uncertified checks

You should note that funds paid by uncertified personal checks may take at least five business days to clear. If you wish to pay the subscription price by an uncertified personal check, we urge you to make payment sufficiently in advance of the time the subscription rights expire to ensure that your payment is received and clears by that time. We urge you to consider using a certified or cashier's check, money order or wire transfer of funds to avoid missing the opportunity to exercise your subscription rights.

Delivery of subscription materials and payment

You should deliver the subscription rights certificate and payment of the subscription price, as well as any Nominee Holder Certifications, Notices of Guaranteed Delivery and DTC Participant Over-Subscription Forms,

if by mail, hand or overnight courier to:

Wells Fargo Bank 161 North Concord Exchange South St. Paul, MN 55075

Attn: Corporate Actions, Rigel Pharmaceuticals, Inc. Rights Offering

You may call the subscription agent at (800) 468-9716.

Your delivery to another address or by any method other than as set forth above will not constitute valid delivery.

Calculation of subscription rights exercised

If you do not indicate the number of subscription rights being exercised, or do not forward full payment of the total subscription price for the number of subscription rights that you indicate are being exercised, then you will be deemed to have exercised the basic subscription privilege with respect to the maximum number of subscription rights that may be exercised for the aggregate subscription price payment you delivered to the subscription agent. If your aggregate subscription price payment is greater than the amount you owe for your subscription, you will be deemed to have exercised the full basic subscription privilege and the over-subscription privilege to purchase the maximum number of shares of our common stock with your overpayment. If we do not apply your full subscription price payment to your purchase of shares of our common stock, we will return the excess amount to you by mail without interest or deduction as soon as practicable after the expiration date of the rights offering.

Your funds will be held by the subscription agent until shares of our common stock are issued

The subscription agent will hold your payment of the subscription price in a segregated account with other payments received from holders of subscription rights until we issue to you your shares of our common stock upon completion of the rights offering.

If you exercised your over-subscription privilege and are allocated less than all of the shares of our common stock for which you wished to subscribe, the excess funds you paid for shares of our common stock that are not allocated to you will be returned by mail without interest or deduction as soon as practicable after the expiration date of the subscription rights.

Medallion guarantee may be required

Your signature on each subscription rights certificate must be guaranteed by an eligible institution (a member firm of a registered national securities exchange or a member of the National Association

of Securities Dealers, Inc. or a commercial bank or trust company having an office or correspondent in the United States), subject to standards and procedures adopted by the subscription agent, unless

- your subscription rights certificate provides that the shares of our common stock you subscribed for are to be delivered to you as record holder of those subscription rights; or
- · you are an eligible institution.

Notice to beneficial holders

If you are a broker, a trustee or a depositary for securities who holds shares of our common stock for the account of others on April 29, 2003 (a "nominee record date holder"), you should notify the respective beneficial owners of such shares of the subscription rights as soon as possible to find out such beneficial owners' intentions with respect to exercising their subscription rights. You should obtain instructions from the beneficial owner with respect to the subscription rights, as set forth in the instructions we have provided to you for your distribution to beneficial owners. If the beneficial owner so instructs, you should complete the appropriate subscription rights certificates and submit them to the subscription agent with the proper payment. If you hold shares of our common stock for the account(s) of more than one beneficial owner, you may exercise the number of subscription rights to which all such beneficial owners in the aggregate otherwise would have been entitled had they been direct record holders of our common stock on the record date, provided that you, as a nominee record holder, make a proper showing to the subscription agent by submitting the form entitled "Nominee Holder Certification" that we will provide to you with your rights offering materials. If you did not receive this form, you should contact the subscription agent to request a copy.

Beneficial owners

If you are a beneficial owner of shares of our common stock or will receive your subscription rights through a broker, custodian bank or other nominee, we will ask your broker, custodian bank or other nominee to notify you of the rights offering. If you wish to exercise your subscription rights, you will need to have your broker, custodian bank or other nominee act for you. If you hold certificates of our common stock directly and would prefer to have your broker, custodian bank or other nominee act for you, you should contact your nominee and request it to effect the transactions for you. To indicate your decision with respect to your subscription rights, you should complete and return to your broker, custodian bank or other nominee the form entitled "Beneficial Owners Election Form." You should receive this form from your broker, custodian bank or other nominee with the other rights offering materials. If you wish to obtain a separate subscription rights certificate, you should contact the nominee as soon as possible and request that a separate subscription rights certificate be issued to you. You should contact your broker, custodian bank or other nominee if you do not receive this form, but you believe you are entitled to participate in the rights offering. We are not responsible if you do not receive the form from your broker, custodian bank or nominee or if you receive it without sufficient time to respond.

Instructions for completing your subscription rights certificate

You should read and follow the instructions accompanying the subscription rights certificates carefully. If you want to exercise your subscription rights, you must send your subscription rights certificates to the subscription agent. You should not send the subscription rights certificates to Rigel

You are responsible for the method of delivery of your subscription rights certificate(s) with your subscription price payment to the subscription agent If you send your subscription rights certificate(s) and subscription price payment by mail, we recommend that you send them by registered mail, properly insured, with return receipt requested. You should allow a sufficient number of days to ensure delivery to the subscription agent and clearance of payment prior to the time the subscription rights expire.

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Because uncertified personal checks may take at least five business days to clear, we strongly urge you to pay, or arrange for payment, by means of certified or cashier's check, money order or wire transfer of funds.

Determinations regarding the exercise of your subscription rights

We will decide all questions concerning the timeliness, validity, form and eligibility of your exercise of subscription rights. Our decisions will be final and binding. We, in our sole discretion, may waive any defect or irregularity, or permit a defect or irregularity to be corrected within such time as we may determine. We will not be required to make uniform determinations in all cases. We may reject the exercise of any of your subscription rights because of any defect or irregularity. Your subscription will not be deemed to have been received or accepted until all irregularities have been waived by us or cured by you within such time we decide, in our sole discretion.

Neither we nor the subscription agent will be under any duty to notify you of a defect or irregularity in connection with your submission of subscription rights certificates. We will not be liable for failing to give you such notice. We reserve the right to reject your exercise of subscription rights if your exercise is not in accordance with the terms of the rights offering or in proper form. We will also not accept your exercise of subscription rights if our issuance of shares of our common stock pursuant to your exercise could be deemed unlawful or materially burdensome.

Regulatory limitation

We will not be required to issue shares of our common stock pursuant to the rights offering to you if, in our opinion, you would be required to obtain prior clearance or approval from any state or federal regulatory authorities to own or control such shares if, at the time the subscription rights expire, you have not obtained such clearance or approval.

Guaranteed delivery procedures

If you wish to exercise your subscription rights, but you do not have sufficient time to deliver the subscription rights certificates evidencing your subscription rights to the subscription agent on or before the time the subscription rights expire, you may exercise your subscription rights by the following guaranteed delivery procedures:

- deliver to the subscription agent on or prior to the rights offering expiration date your subscription price payment in full for each share of our common stock you subscribed for under your basic subscription privilege and your over-subscription privilege (in the manner set forth in "—Exercise of Subscription Rights" beginning on page 22);
- deliver to the subscription agent on or prior to the rights offering expiration date the form entitled "Notice of Guaranteed Delivery," substantially in the form
 provided with the "Instructions as to Use of Rigel Pharmaceuticals, Inc. Subscription Rights Certificates" distributed with your subscription rights certificates;
 and

deliver the properly completed subscription rights certificate evidencing the subscription rights being exercised and the related nominee holder certification, if
applicable, with any required signature guarantee, to the subscription agent within three Nasdaq National Market trading days following the date the Notice of
Guaranteed Delivery was delivered to the subscription agent.

Your Notice of Guaranteed Delivery must be substantially in the form provided with the Instructions as to Use of Rigel Pharmaceuticals, Inc. Subscription Rights Certificates distributed to you with your subscription rights certificate. Your Notice of Guaranteed Delivery must come from an eligible institution (a member firm of a registered national securities exchange or a member of the

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National Association of Securities Dealers, Inc. or a commercial bank or trust company having an office or correspondent in the United States).

In your Notice of Guaranteed Delivery you must state:

- your name;
- the number of subscription rights represented by your subscription rights certificates, the number of shares of our common stock you are subscribing for pursuant to the basic subscription privilege and the number of the shares of our common stock, if any, you are subscribing for pursuant to the over-subscription privilege;
- your guarantee that you will deliver to the subscription agent any subscription rights certificates evidencing the subscription rights you are exercising within three Nasdaq National Market trading days following the date the subscription agent receives your Notice of Guaranteed Delivery.

You may deliver the Notice of Guaranteed Delivery to the subscription agent in the same manner as the subscription rights certificate at the address set forth in "—Delivery of Subscription Materials and Payment" beginning on page 23. You may alternatively transmit the Notice of Guaranteed Delivery to the subscription agent by facsimile transmission at (651) 450-2452.

The subscription agent will send you additional copies of the form of Notice of Guaranteed Delivery if you need them. Please call the subscription agent at (800) 468-9716 to request any copies of the form of Notice of Guaranteed Delivery.

Questions about exercising subscription rights

You may direct any questions or require assistance regarding the method of exercising your subscription rights, additional copies of this prospectus, the Instructions as to the Use of Rigel Pharmaceuticals, Inc. Subscription Rights Certificates, the Nominee Holder Certification, the Notice of Guaranteed Delivery or other subscription documents referred to herein, to Wells Fargo Shareowner Services at the following telephone number and address.

161 North Concord Exchange South St. Paul, MN 55075 Attn: Corporate Actions, Rigel Pharmaceuticals, Inc. Rights Offering (800) 468-9716

No revocation

Once you have exercised your basic subscription privilege and/or over-subscription privilege, you may not revoke your exercise. Subscription rights not exercised prior to the expiration date of the rights offering will expire and will have no value.

Procedures for DTC participants

We expect that your exercise of your basic subscription privilege and your over-subscription privilege may be made through the facilities of The Depository Trust Company ("DTC"). If your subscription rights are held of record through DTC, you may exercise your basic subscription privilege and your over-subscription privilege by instructing DTC to transfer your subscription rights from your account to the account of the subscription agent, together with certification as to the aggregate number of subscription rights you are exercising and the number of shares of our common stock you are subscribing for under your basic subscription privilege and your over-subscription privilege, if any, and your subscription privilege and your over-subscription privilege.

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Determination of subscription price

We believe that the \$0.64 per share subscription price meets our objective of raising the maximum amount of net proceeds while providing you with an opportunity to make an additional investment in our common stock. Our board of directors chose the \$0.64 per share subscription price to equal the per share price paid by the private placement investors in the private placement.

The \$0.64 per share subscription price should not be considered an indication of the actual value of Rigel or of our common stock. We cannot assure you that the market price of our common stock will not decline during or after the rights offering. We also cannot assure you that you will be able to sell shares of common stock purchased during the rights offering at a price equal to or greater than \$0.64 per share. We urge you to obtain a current quote for our common stock before exercising your subscription rights.

On , 2003, the closing price of our common stock was \$. Our common stock is traded on the Nasdaq National Market under the symbol "RIGL."

No recommendations to subscription rights holders

An investment in shares of our common stock must be made according to each investor's evaluation of its own best interests and after considering all of the information in this prospectus, including the "Risk Factors" section of this prospectus and all of the information incorporated by reference in this prospectus. None of our board of directors, our officers or any other person are making any recommendations as to whether or not you should exercise your subscription rights. You should make your decision based on your own assessment of your best interests.

Non-U.S. and certain other stockholders

We will not mail subscription rights certificates to record date holders whose addresses are outside the United States or who have an army post office or fleet post office address. Instead, we will have the subscription agent hold such subscription rights certificates for such holders' accounts. To exercise their subscription rights, such holders must notify the subscription agent prior to 11:00 a.m. Central Daylight time on a contral Daylight time

Issuance of common stock

The subscription agent will issue to you certificates representing shares of our common stock you purchase pursuant to the rights offering as soon as practicable after the time the subscription rights expire.

Your payment of the subscription price will be retained by the subscription agent, and will not be delivered to us, until your subscription is accepted and you are issued your stock certificates. We will not pay you any interest on funds paid to the subscription agent, regardless of whether such funds are applied to the subscription price or returned to you. You will have no rights as a stockholder of Rigel with respect to shares of our common stock subscribed for until certificates representing such shares are issued to you. Unless otherwise instructed in the subscription rights certificates, your certificates for shares issued pursuant to your exercise of subscription rights will be registered in your name.

If the rights offering is not completed for any reason, the subscription agent will promptly return, without interest, all funds received by it.

Shares of common stock outstanding after the rights offering

Assuming we issue all of the shares of our common stock offered in the rights offering and the private placement is consummated, approximately 133,876,003 shares of our common stock will be

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issued and outstanding after the expiration of the rights offering (without giving effect to the exercise of the warrants issued in the private placement). Based on the 118,251,003 shares of our common stock outstanding as of June , 2003 (immediately after the private placement), our issuance of shares in the rights offering would result in a % increase in the number of outstanding shares of our common stock.

Other matters

We are not making the rights offering in any state or other jurisdiction in which it is unlawful to do so. We will not sell or accept an offer to purchase our common stock from you if you are a resident of any such state or other jurisdiction. We may delay the commencement of the rights offering in certain states or other jurisdictions in order to comply with the laws of such states or other jurisdictions. We do not expect that there will be any changes in the terms of the rights offering. However, we may decide, in our sole discretion, not to modify the terms of the rights offering as may be requested by certain states or other jurisdictions. If that happens and you are a resident of that state, you will not be eligible to participate in the rights offering.

CERTAIN UNITED STATES FEDERAL INCOME TAX CONSEQUENCES

The following discussion is a summary of certain United States federal income tax consequences of the rights offering to holders of our common stock that hold such stock as a capital asset for United States federal income tax purposes. This discussion is based on laws, regulations, rulings and decisions in effect on the date hereof, all of which are subject to change (possibly with retroactive effect) and to differing interpretations. This discussion applies only to holders that are U.S. persons and does not address all aspects of United States federal income taxation that may be relevant to holders in light of their particular circumstances or to holders who may be subject to special tax treatment under the Internal Revenue Code, including, without limitation, holders of our warrants, holders who are dealers in securities or foreign currency, foreign persons, insurance companies, tax-exempt organizations, banks, financial institutions, broker-dealers, holders who hold common stock as part of a hedge, straddle, conversion or other risk reduction transaction, or who acquired common stock pursuant to the exercise of compensatory stock options or otherwise as compensation.

Moreover, this summary does not address the tax consequences of the rights offering under state, local or foreign tax laws. ACCORDINGLY, YOU SHOULD CONSULT YOUR OWN TAX ADVISORS TO DETERMINE THE SPECIFIC TAX CONSEQUENCES OF THE RIGHTS OFFERING TO YOU.

Issuance of the subscription rights

If you hold Rigel common stock on the record date, you should not recognize taxable income upon the receipt of the subscription rights.

In general, a distribution by a corporation to its stockholders of subscription rights to acquire stock of the distributing corporation is not taxable. An exception to this general rule applies in the case of a distribution which constitutes a disproportionate distribution with respect to any class or classes of stock of the corporation. A distribution of stock rights constitutes a disproportionate distribution if it is a part of a distribution or a series of distributions (including deemed distributions) that has the effect of (1) the receipt of property (including cash) by some stockholders and (2) an increase in the proportionate interests of other stockholders in the assets or earnings and profits of the distributing corporation.

The distribution of the subscription rights to all stockholders except the private placement investors should not constitute a disproportionate distribution taxable as a dividend since (1) the private placement was made with the expectation of promptly thereafter making the distribution of

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subscription rights to the remaining stockholders, and the subscription rights may be exercised on the same economic terms as the private placement, (2) there is a single class of stock outstanding, and (3) there has not been nor is there expected to be any property distributions to any stockholder in connection with the distribution of subscription rights.

We intend to treat the distribution of subscription rights as a nontaxable distribution. If the Internal Revenue Service were to take a contrary position with respect to this matter, by deeming the distribution of subscription rights to constitute a taxable distribution, a person receiving a right would recognize a dividend, taxable as ordinary income, in an amount equal to the fair market value of the right received, but only to the extent of Rigel's current and accumulated earnings and profits, if any. To the extent the deemed distribution exceeds such current and accumulated earnings and profits, any excess would be treated first as a nontaxable recovery of adjusted tax basis in your Rigel common stock with respect to which the right was distributed and then as gain from the sale or exchange of your Rigel common stock. Your tax basis in a right received in a taxable distribution would equal the fair market value of the right as of the date of distribution of the right. Your holding period in the right would begin on the day following the date of distribution of the right.

The following discussion assumes that the distribution of the subscription rights will be treated as a nontaxable distribution.

Basis and holding period of the subscription rights

Generally, if you hold Rigel common stock on the record date, your basis in the subscription rights you receive will be zero. If, however, (1) the fair market value of the subscription rights on the date we issue the subscription rights is 15% or more of the fair market value (on that same date) of our common stock, or (2) you properly elect under Section 307 of the Internal Revenue Code in your federal income tax return to allocate part of the basis of your Rigel common stock to the subscription rights, then your basis in your shares of Rigel common stock will be allocated between your Rigel common stock and the subscription rights in proportion to the fair market values of each on the date we issue the subscription rights. We have not obtained an independent appraisal of the valuation of the subscription rights and, therefore, each stockholder individually must determine how Internal Revenue Code Section 307 will apply in that stockholder's particular situation.

The holding period of your subscription rights will include your holding period (as of the date of issuance) of the Rigel common stock with respect to which we distributed the subscription rights to you.

Expiration of the subscription rights

If your basis in your subscription rights is zero, and you allow your subscription rights to expire unexercised, you will not recognize any gain or loss.

If you have a basis in your subscription rights and you allow your subscription rights to expire unexercised, you will recognize a loss equal to the basis of those subscription rights. Any loss you recognize on the expiration of your subscription rights will be a capital loss if the Rigel common stock obtainable by you upon exercise of the subscription rights would be a capital asset.

Exercise of the subscription rights, basis and holding period of acquired shares

You will not recognize any gain or loss upon the exercise of your subscription rights. Your basis in each share of Rigel common stock you acquire through exercise of your subscription rights will equal the sum of the subscription price you paid to exercise your subscription rights and your basis, if any, in the subscription rights. Your holding period for the Rigel common stock you acquire through exercise of your subscription rights will begin on the date you exercise your subscription rights.

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Sale or exchange of common stock

If you sell or exchange shares of Rigel common stock, you will generally recognize gain or loss on the transaction. The gain or loss you recognize will be equal to the difference between the amount you realize on the transaction and your basis in the shares you sell. Such gain or loss generally will be capital gain or loss so long as you held the shares as a capital asset at the time of the sale or exchange. Gain or loss from a capital asset held for more than one year will generally be taxable as long term capital gain or loss

Information reporting and backup withholding

You may be subject to backup withholding with respect to the rights offering. However, you will not be subject to backup withholding if you: (1) are a corporation or fall within certain other exempt categories and, when required, demonstrate that fact; or (2) provide a correct taxpayer identification number and certify under penalties of perjury that your taxpayer identification number is correct and that you are not subject to backup withholding because you previously failed to report all dividends and interest income.

Any amount withheld under these rules will be credited against your federal income tax liability. We may require you to establish your exemption from backup withholding or make other arrangements with respect to the payment of backup withholding.

THIS SUMMARY IS INCLUDED FOR GENERAL INFORMATION ONLY. YOU SHOULD CONSULT YOUR OWN TAX ADVISORS REGARDING THE CONSEQUENCES OF THE RIGHTS OFFERING TO YOUR PARTICULAR TAX SITUATION, INCLUDING STATE AND LOCAL INCOME AND OTHER TAX LAWS.

PLAN OF DISTRIBUTION

We are making the rights offering directly to you, the holders of our common stock. We have not employed any brokers, dealers or underwriters in connection with the rights offering and will not pay any underwriting commissions, fees or discounts in connection with the rights offering. Some of our directors or officers may assist in the rights offering. These individuals will not receive any commissions or compensation other than their normal directors' fees or employment compensation.

We will bear all costs, expenses and fees in connection with the rights offering. We will pay the subscription agent a fee of \$15,000 and reimburse the subscription agent for certain expenses incurred in connection with the rights offering. We estimate that our total expenses in connection with the rights offering, including fees to the subscription agent, will be \$176,000.

LEGAL MATTERS

The validity of the shares of common stock offered in the rights offering and the tax matters discussed in this prospectus will be passed upon for us by Cooley Godward LLP, Palo Alto, California.

EXPERTS

The financial statements of Rigel Pharmaceuticals, Inc. appearing in Rigel Pharmaceuticals, Inc.'s Annual Report (Form 10-K) for the year ended December 31, 2002, as amended, have been audited by Ernst & Young LLP, independent auditors, as set forth in their report thereon included therein and incorporated herein by reference. Such financial statements are incorporated herein by reference in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

With respect to the unaudited condensed consolidated interim financial information for the three-month periods ended March 31, 2003 and March 31, 2002, incorporated by reference in this Prospectus,

Ernst & Young LLP have reported that they have applied limited procedures in accordance with professional standards for a review of such information. However, their separate report, included in Rigel Pharmaceuticals, Inc.'s Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, and incorporated herein by reference, states that they did not audit and they do not express an opinion on that interim financial information. Accordingly, the degree of reliance on their report on such information should be restricted considering the limited nature of the review procedures applied. The independent auditors are not subject to the liability provisions of Section 11 of the Securities Act of 1933 (the "Act") for their report on the unaudited interim financial information because that report is not a "report" or a "part" of the Registration Statement prepared or certified by the auditors within the meaning of Sections 7 and 11 of the Act.

WHERE YOU CAN FIND MORE INFORMATION

We are a reporting company and file annual, quarterly and current reports, proxy statements and other information with the Securities and Exchange Commission. We have filed with the Securities and Exchange Commission a registration statement on Form S-3 under the Securities Act with respect to the shares of our common stock to be issued in the rights offering. This prospectus does not contain all of the information set forth in the registration statement and the exhibits to the registration statement. For further information with respect to us and the securities offered under this prospectus, we refer you to the registration statement and the exhibits and schedules filed as a part of the registration statement. You may read and copy the registration statement, as well as our reports, proxy statements and other information, at the Securities and Exchange Commission's public reference room at Room 1024, 450 Fifth Street, N.W., Washington, D.C. 20549. You can request copies of these documents by writing to the Securities and Exchange Commission and paying a fee for the copying cost. Please call the Securities and Exchange Commission at 1-800-SEC-0330 for more information about the operation of the public reference rooms. Our Securities and Exchange Commission filings are also available at the Securities and Exchange Commission's web site at www.sec.gov. In addition, you can read and copy our Securities and Exchange Commission filings at the office of the National Association of Securities Dealers, Inc. at 1735 K Street, N.W., Washington, D.C. 20006.

The Securities and Exchange Commission allows us to "incorporate by reference" the information contained in documents that we file with them, which means that we can disclose important information to you by referring to those documents. The information incorporated by reference is considered to be part of this prospectus. Information in this prospectus supersedes information incorporated by reference that we filed with the Securities and Exchange Commission prior to the date of this prospectus, while information that we file later with the Securities and Exchange Commission will automatically update and supersede this information. We incorporate by reference the documents listed below and any future filings we will make with the Securities and Exchange Commission under Sections 13(a), 13(c), 14 and 15(d) of the Securities Exchange Act of 1934.

We incorporate by reference into this prospectus the following documents, which contain important information about us and our business and financial results:

- our Quarterly Report on Form 10-Q for the quarter ended March 31, 2003;
- our Annual Report on Form 10-K for the fiscal year ended December 31, 2002, as amended on May 8, 2003;
- · our proxy statement for the 2003 annual meeting of stockholders, filed with the Securities and Exchange Commission on May 19, 2003; and
- the description of our common stock set forth in our registration statement on Form 8-A, filed with the Securities and Exchange Commission on October 3, 2000.

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We may file additional documents with the Securities and Exchange Commission pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934 on or after the date of this prospectus and before the expiration of the rights offering. The Securities and Exchange Commission allows us to incorporate by reference into this prospectus such documents. You should consider any statement contained in this prospectus (or in a document incorporated into this prospectus) to be modified or superseded to the extent that a statement in a subsequently filed document modifies or supersedes such statement.

We will furnish without charge to you, on written or oral request, a copy of any or all of the documents incorporated by reference, including exhibits to these documents. You should direct any requests for documents to Rigel Pharmaceuticals, Inc., Attention: Corporate Secretary, 1180 Veterans Blvd., South San Francisco, California, 94080, telephone: (650) 624-1100.

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15,625,000 Shares



Rigel Pharmaceuticals, Inc.

Common Stock

PROSPECTUS

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

ITEM 14. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION

The following table sets forth the estimated expenses in connection with the issuance and distribution of the securities offered hereby.

Securities and Exchange Commission Registration Fee	\$ 809.00
Subscription Agent Fee	\$ 15,000*
Printing and Engraving Expenses.	\$ 15,000*
Legal Fees and Expenses.	\$ 125,000*
Accounting Fees and Expenses	\$ 10,000*
Miscellaneous.	\$ 10,191*
Total.	\$ 176,000*

Estimated.

ITEM 15. INDEMNIFICATION OF DIRECTORS AND OFFICERS

As permitted by Delaware law, our amended and restated certificate of incorporation provides that no director will be personally liable to us or our stockholders for monetary damages for breach of fiduciary duty as a director, except for liability:

- for any breach of duty of loyalty to us or to our stockholders;
- for acts or omissions not in good faith or that involve intentional misconduct or a knowing violation of law;
- · for unlawful payment of dividends or unlawful stock repurchases or redemptions under Section 174 of the Delaware General Corporation Law; or
- for any transaction from which the director derived an improper personal benefit.

Our amended and restated certificate of incorporation further provides that we must indemnify our directors to the fullest extent permitted by Delaware law. In addition, our amended and restated bylaws provide that:

- · we are required to indemnify our directors and officers to the fullest extent permitted by Delaware law, subject to limited exceptions;
- we may indemnify our other employees and agents to the extent that we indemnify our officers and directors, unless otherwise prohibited by law, our amended and restated certificate of incorporation, our amended and restated bylaws or agreements;
- we are required to advance expenses to our directors and executive officers as incurred in connection with legal proceedings against them for which they may be indemnified; and
- the rights conferred in the amended and restated bylaws are not exclusive.

We have entered into indemnification agreements with each of our directors and certain officers. These agreements, among other things, require us to indemnify each director and officer to the fullest extent permitted by Delaware law, including indemnification for expenses such as attorneys' fees, judgments, fines and settlement amounts incurred by the director or officer in any action or proceeding, including any action by or in the right of Rigel, arising out of the person's services as a

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director or officer of us, any subsidiary of ours or any other company or enterprise to which the person provides services at our request. At present, we are not aware of any pending or threatened litigation.

ITEM 16. EXHIBITS

EXHIBIT NUMBER	DESCRIPTION
3.1	Amended and Restated Certificate of Incorporation of Rigel (1)
3.2	Amended and Restated Bylaws of Rigel (1)
4.1	Form of Specimen Certificate for Subscription Rights of Rigel
5.1	Opinion of Cooley Godward LLP (2)
8.1	Opinion of Cooley Godward LLP with respect to tax matters (2)
15.1	Letter regarding unaudited interim financial information
23.1	Consent of Ernst & Young LLP, Independent Auditors
23.2	Consent of Cooley Godward LLP (included in Exhibit 5.1) (2)
23.3	Consent of Cooley Godward LLP (included in Exhibit 8.1) (2)
24.1	Power of Attorney (2)
99.1	Form of Instructions to Stockholders as to use of Subscription Rights
99.2	Form of Notice of Guaranteed Delivery for Subscription Rights
99.3	Form of Letter to Stockholders who are Record Holders
99.4	Form of Letter to Stockholders who are Beneficial Holders

- 99.5 Form of Letter to Clients of Stockholders who are Beneficial Holders
 99.6 Form of Beneficial Owner Election Form
 99.7 Form of Nominee Holder Certification
 99.8 Form of Subscription Agent Agreement between Rigel and Wells Fargo Bank, MN, N.A.
- (1) Filed as an exhibit to Rigel's Registration Statement on Form S-1 (No. 333-45864), as amended, and incorporated herein by reference
- (2) Previously filed

ITEM 17. UNDERTAKINGS

- (a) The undersigned registrant hereby undertakes:
 - (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
 - (ii) To reflect in the prospectus any facts or events arising after the effective date of this registration statement (or the most recent post-effective amendment hereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;

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(iii) To include any material information with respect to the plan of distribution not previously disclosed in this registration statement or any material change to such information in this registration statement;

provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement.

- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
 - (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
- (b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in this registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

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SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Amendment No. 1 to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of South San Francisco, State of California, on June 23, 2003.

RIGEL PHARMACEUTICALS, INC.

By: /s/ JAMES M. GOWER

James M. Gower, Chairman of the Board and Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities on the dates indicated.

Signature Title Date

/s/ JAMES M. GOWER	Chairman of the Board and Chief Executive Officer (Principal Executive Officer)	June 23, 2003
James M. Gower /s/ JAMES H. WELCH	Vice President, Chief Financial Officer and	June 23, 2003
James H. Welch	Secretary (Principal Financial and Accounting Officer)	
*	Executive Vice President, Chief Scientific	June 23, 2003
Donald G. Payan	Officer and Director	
*		
Jean Deleage	Director	June 23, 2003
*		
Alan D. Frazier	Director	June 23, 2003
*		
Walter H. Moos	Director	June 23, 2003
*		
Stephen A. Sherwin	Director	June 23, 2003
*		
Thomas S. Volpe	Director	June 23, 2003
* James H. Welch, by signing his name hereto, does hereby sign this Amendment No. 1 to the Registration Statement on behalf of the directors of the registrant above whose typed names asterisks appear, pursuant to powers of attorney duly executed by such directors and filed with the Securities and Exchange Commission.		
By: /s/ JAMES H. WELCH		
James H. Welch Attorney-in-fact		

INDEX TO EXHIBITS

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3.1	Amended and Restated Certificate of Incorporation of Rigel (1)
3.2	Amended and Restated Bylaws of Rigel (1)
4.1	Form of Specimen Certificate for Subscription Rights of Rigel
5.1	Opinion of Cooley Godward LLP (2)
8.1	Opinion of Cooley Godward LLP with respect to tax matters (2)
15.1	Letter regarding unaudited interim financial information
23.1	Consent of Ernst & Young LLP, Independent Auditors
23.2	Consent of Cooley Godward LLP (included in Exhibit 5.1) (2)
23.3	Consent of Cooley Godward LLP (included in Exhibit 8.1) (2)
24.1	Power of Attorney (2)
99.1	Form of Instructions to Stockholders as to use of Subscription Rights
99.2	Form of Notice of Guaranteed Delivery for Subscription Rights
99.3	Form of Letter to Stockholders who are Record Holders
99.4	Form of Letter to Stockholders who are Beneficial Holders
99.5	Form of Letter to Clients of Stockholders who are Beneficial Holders
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99.7	Form of Nominee Holder Certification
99.8	Form of Subscription Agent Agreement between Rigel and Wells Fargo Bank, MN, N.A.
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PROSPECTUS SUMMARY QUESTIONS & ANSWERS ABOUT THE RIGHTS OFFERING RISK FACTORS FORWARD LOOKING STATEMENTS **USE OF PROCEEDS** THE RIGHTS OFFERING CERTAIN UNITED STATES FEDERAL INCOME TAX CONSEQUENCES

PLAN OF DISTRIBUTION

LEGAL MATTERS

EXPERTS

WHERE YOU CAN FIND MORE INFORMATION

PART II INFORMATION NOT REQUIRED IN PROSPECTUS

ITEM 14. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION ITEM 15. INDEMNIFICATION OF DIRECTORS AND OFFICERS ITEM 16. EXHIBITS **ITEM 17. UNDERTAKINGS**

SIGNATURES INDEX TO EXHIBITS

	exhibit 4.1
Rights Certificate Number: Number of Rights:	

RIGEL PHARMACEUTICALS, INC.

FORM OF SUBSCRIPTION RIGHTS CERTIFICATE Evidencing Subscription Rights to Purchase Shares of Common Stock of Rigel Pharmaceuticals, Inc. Subscription Price: \$0.64 per Share

THE SUBSCRIPTION RIGHTS WILL EXPIRE IF NOT EXERCISED ON OR BEFORE 5:00 P.M. CENTRAL DAYLIGHT TIME ON EXTENDED BY RIGEL PHARMACEUTICALS, INC.

, 2003, UNLESS

Dear Stockholder:

CHECK AND COMPLETE

As the registered owner of this subscription rights certificate, you are the owner of the number of subscription rights (the "Rights") shown above. You have been issued, at no charge, one non-transferable Right for each share of Rigel Pharmaceuticals, Inc. ("Rigel") common stock, par value \$0.001 per share ("Common Stock"), that you held on April 29, 2003. The Rights entitle you to subscribe for and purchase shares of Common Stock. Each Right allows the holder thereof to subscribe for _______ of a share of Common Stock (the "Basic Subscription Privilege"), rounded down to the nearest whole number at the cash price of \$0.64 per share (the "Subscription Price"). In addition, each holder of Rights who exercises their Basic Subscription Privilege in full will be eligible to subscribe (the "Over-Subscription Privilege") at the same cash price of \$0.64 per share for additional shares of Common Stock that are not otherwise purchased pursuant to the exercise of Rights under the Basic Subscription Privilege, subject to availability and pro ration as described in the prospectus. For a more complete description of the terms and conditions of these subscription rights, please refer to the prospectus and the "Instructions as to Use of Rigel Pharmaceuticals, Inc. Subscription Rights Certificates" accompanying this subscription rights certificate.

THESE SUBSCRIPTION RIGHTS ARE NON-TRANSFERABLE

<u>PART 1A—TO EXERCISE BASIC SUBSCRIPTION PRIVILEGE</u> : The undersigned hereby irrevocably subscribes for the number of shares indicated below upon the terms and conditions specified in the prospectus, receipt of which is hereby acknowledged.
Number of shares subscribed for, at \$0.64 per share = \$
PART 1B—TO EXERCISE OVER-SUBSCRIPTION PRIVILEGE: The undersigned hereby irrevocably over-subscribes for shares, upon the terms and conditions provided in the prospectus. (The Over-Subscription Privilege may only be exercised if the Basic Subscription Privilege has been exercised in full by the undersigned and if other holders of Rights do not exercise their Basic Subscription Privilege in full. The undersigned hereby represents and certifies that their Basic Subscription Privilege has been exercised in full.)
Number of shares over-subscribed for, at \$0.64 per share = \$
Total Amount Enclosed (#1A and #1B): \$

DELIVERY OPTIONS FOR SUBSCRIPTION RIGHTS CERTIFICATE

If by mail, hand or overnight courier, to:
Well Fargo Bank, MN, N.A.
161 North Concord Exchange
South St. Paul, MN 55075
Attention: Corporate Actions, Rigel Pharmaceuticals, Inc. Rights Offering

DELIVERY TO ANY ADDRESS OR BY ANY METHOD OTHER THAN THOSE SET FORTH ABOVE DOES NOT CONSTITUTE VALID DELIVERY.

I acknowledge that I have received the prospectus for this rights offering and I hereby irrevocably subscribe for the number of shares indicated above on the terms and conditions specified in the prospectus.
READ INSTRUCTIONS BEFORE SIGNING

SUBSCRIBER'S SIGNATURE

ADDITIONAL SIGNATURE (if jointly held)

METHOD OF PAYMENT (CHECK ONE)

	Uncertified personal check payable to "Well Fargo Bank, MN, N.A., as Subscription Agent." Please note that funds paid by uncertified personal check may take at least five business days to clear. Accordingly, holders of Rights who wish to pay the purchase price by means of an uncertified personal check are urged to make payment sufficiently in advance of the expiration date to ensure that such payment is received and clears by the expiration date, and are urged to consider payment by means of a certified or cashier's check, money order or wire transfer of funds.	
	Certified or cashier's check drawn on a U.S. bank or money order, payable to "Wells Fargo Bank, MN, N.A., as Subscription Agent."	
☐ Wire transfer of immediately available funds directed to the account maintained by Wells Fargo Bank, MN, N.A. at:		
	161 North Concord Exchange South St. Paul, MN 55075 Attn: Corporate Actions, Rigel Pharmaceuticals, Inc. Rights Offering	
	ABA No. 091000019 Account No. 1067899	

Account Name: Rigel Pharmaceuticals, Inc. Subscription

If you do not indicate the number of Rights being exercised, or do not forward full payment of the total Subscription Price for the number of Rights that you indicate are being exercised, then you will be deemed to have exercised the Basic Subscription Privilege with respect to the maximum number of Rights that may be exercised for the aggregate Subscription Price payment you delivered to the subscription agent. If your aggregate Subscription Price payment is greater than the amount you owe for your subscription, you will be deemed to have exercised the full Basic Subscription Privilege and the Over-Subscription Privilege to purchase the maximum number of shares of Common Stock with your overpayment. If we do not apply your full Subscription Price payment to your purchase of shares of Common Stock, we will return the excess amount to you by mail without interest or deduction as soon as practicable after the expiration date of the rights offering.

QuickLinks

Exhibit 4.1

Exhibit 15.1

June 20, 2003

The Board of Directors and Stockholders of Rigel Pharmaceuticals, Inc.

We are aware of the incorporation by reference in Amendment No. 1 to the Registration Statement (Form S-3 333-105431) of Rigel Pharmaceuticals, Inc. for the distribution of subscription rights and the issuance of 15,625,000 shares of its common stock upon the exercise of such subscription rights, and in the related prospectus contained in such Registration Statement of our report dated April 21, 2003, relating to the unaudited condensed interim financial statements of Rigel Pharmaceuticals, Inc. that are included in its Form 10-Q for the quarter ended March 31, 2003, filed with the Securities and Exchange Commission.

Pursuant to Rule 436(c) of the Securities Act of 1933 our report is not a part of the registration statement prepared or certified by accountants within the meaning of section 7 or 11 of the Securities Act of 1933.

Very truly yours,

/s/ ERNST & YOUNG LLP

QuickLinks

Exhibit 15.1

CONSENT OF ERNST & YOUNG LLP, INDEPENDENT AUDITORS

We consent to the reference to our firm under the caption "Experts" in Amendment No. 1 to the Registration Statement (Form S-3 333-105431) and related prospectus of Rigel Pharmaceuticals, Inc. for the distribution of subscription rights and the issuance of 15,625,000 shares of its common stock upon the exercise of such subscription rights and to the incorporation by reference therein of our report dated January 24, 2003, except for Note 9 as to which the date is January 31, 2003, with respect to the financial statements of Rigel Pharmaceuticals, Inc. included in its Annual Report on Form 10-K/A, as amended, for the year ended December 31, 2002, filed with the Securities and Exchange Commission.

/s/ ERNST & YOUNG LLP

Palo Alto, California June 20, 2003

QuickLinks

Exhibit 23.1

CONSENT OF ERNST & YOUNG LLP, INDEPENDENT AUDITORS

Exhibit 99.1

INSTRUCTIONS AS TO USE OF RIGEL PHARMACEUTICALS, INC. SUBSCRIPTION RIGHTS CERTIFICATES

CONSULT THE SUBSCRIPTION AGENT, YOUR BANK OR BROKER AS TO ANY QUESTIONS

The following instructions relate to a rights offering (the "Rights Offering") by Rigel Pharmaceuticals, Inc., a Delaware corporation ("Rigel"), to the holders of record (the . 2003 (the "Prospectus"). "Recordholders") of its common stock, par value \$0.001 per share ("Common Stock"), as described in Rigel's prospectus dated Recordholders of Common Stock at 5:00 p.m. Central Daylight time on April 29, 2003 (the "Record Date") are receiving subscription rights (the "Rights") to subscribe for and purchase shares of Rigel's Common Stock (the "Underlying Shares"). An aggregate 15,625,000 Underlying Shares are being offered by the Prospectus. Each Recordholder will receive one Right for each share of Common Stock owned of record on the Record Date. The Rights will expire, if not exercised, at 5:00 p.m. Central Daylight time , 2003, unless extended in the sole discretion of Rigel (as it may be extended, the "Expiration Date"). After the Expiration Date, unexercised Rights will be null and void. Rigel will not be obligated to honor any purported exercise of Rights received by Wells Fargo Bank, MN, N.A. (the "Subscription Agent") after 5:00 p.m. Central Daylight time on the Expiration Date, regardless of when the documents relating to such exercise were sent, except pursuant to the Guaranteed Delivery Procedures described below. Rigel may in its sole discretion extend the Expiration Date by a press release announcing the extension before the first Nasdaq National Market trading day after the most recently announced Expiration Date. The Rights will be evidenced by Rights certificates (the "Subscription Rights Certificates").

Each Right allows the holder thereof to subscribe for of a share of Common Stock (the "Basic Subscription Privilege"), rounded down to the nearest whole number at the cash price of \$0.64 per share (the "Subscription Price").

In addition, each holder of Rights who exercises their Basic Subscription Privilege in full will be eligible to subscribe (the "Over-Subscription Privilege") at the same cash price of \$0.64 per share for additional shares of Common Stock that are not otherwise purchased pursuant to the exercise of Rights under the Basic Subscription Privilege (the "Excess Shares"), subject to availability and pro ration as described below. Each holder of Rights may only exercise their Over-Subscription Privilege if they exercised their Basic Subscription Privilege in full and other holders of Rights do not exercise their Basic Subscription Privilege in full. If there are not enough Excess Shares to satisfy all subscriptions pursuant to the exercise of the Over-Subscription Privilege, Rigel will allocate the remaining Excess Shares pro rata, after eliminating all fractional shares, among those Rights holders who exercised their Over-Subscription Privileges. "Pro rata" means in proportion to the number of Underlying Shares that each holder of Rights has purchased by exercising their Basic Subscription Privileges. If there is a pro rata allocation of the remaining Excess Shares and a holder of Rights receives an allocation of a greater number of Excess Shares than they subscribed for under their Over-Subscription Privilege, then Rigel will allocate to them only the number of Excess Shares for which they subscribed. Rigel will allocate the remaining Excess Shares among all other holders exercising their Over-Subscription Privileges. See "The Rights Offering—Subscription Privileges" in the Prospectus.

The number of Rights to which you are entitled is printed on the face of your Subscription Rights Certificate. You should indicate your wishes with regard to the exercise of your Rights by completing the appropriate portions of your Subscription Rights Certificate and returning the certificate, with any required signature guarantees or other supplemental documentation to the Subscription Agent in the envelope provided pursuant to the procedures described in the Prospectus.

Your Subscription Rights Certificates, or Notice of Guaranteed Delivery, and Subscription Price payment, including final clearance of any checks, must be received by the Subscription Agent on or before 5:00 p.m. Central Daylight time on the Expiration Date. Once a holder of Rights has exercised the Basic Subscription Privilege or the Over-Subscription Privilege, such exercise may not be revoked. Rights not exercised prior to the Expiration Date will expire without value.

1. METHOD OF SUBSCRIPTION—EXERCISE OF RIGHTS.

To exercise Rights, complete your Subscription Rights Certificate and send the properly completed and executed Subscription Rights Certificate evidencing such Rights with any signatures required to be guaranteed so guaranteed, together with payment in full of the Subscription Price for each Underlying Share subscribed for pursuant to the Basic Subscription Privilege and the Over-Subscription Privilege, to the Subscription Agent, on or prior to 5:00 p.m. Central Daylight time on the Expiration Date. Payment of the Subscription Price will be held in a segregated account to be maintained by the Subscription Agent. All payments must be made in U.S. dollars for the full number of Underlying Shares being subscribed for (a) by check or bank draft drawn upon a U.S. bank or postal, telegraphic or express money order payable to Wells Fargo Bank, MN, N.A., as Subscription Agent, or (b) by wire transfer of immediately available funds to the account maintained by the Subscription Agent for purposes of accepting subscriptions in the Rights Offering at Wells Fargo Bank, MN, N.A., ABA No. 091000019, Account No. 1067899 (marked: "Rigel Pharmaceuticals, Inc. Subscription") (the "Subscription") Account"). Any wire transfer should clearly indicate the identity of the subscriber who is paying the Subscription Price by the wire transfer (i.e., marked "Rigel Pharmaceuticals, Inc. Subscription"). Payments will be deemed to have been received by the Subscription Agent only upon (i) clearance of any uncertified check, (ii) receipt by the Subscription Agent of any certified check or bank draft drawn upon a U.S. bank or of any postal, telegraphic or express money order or (iii) receipt of collected funds in the Subscription Account designated above. If paying by uncertified personal check, please note that the funds paid thereby may take at least five business days to clear. Accordingly, Rights holders who wish to pay the Subscription Price by means of uncertified personal check are urged to make payment sufficiently in advance of the Expiration Date to ensure that such payment is received and clears by such time and are urged to consider payment by means of certified or cashier's check, money order or wire transfer of funds.

The Subscription Rights Certificate and payment of the Subscription Price, or, if applicable, Notices of Guaranteed Delivery (as defined below) must be delivered to the Subscription Agent by one of the methods described below:

> By Mail, Hand or Overnight Courier: Wells Fargo Bank, MN, N.A. 161 North Concord Exchange South St. Paul, MN 55075 Attn: Corporate Actions, Rigel Pharmaceuticals, Inc. Rights Offering

Telephone Number for Confirmation: 1-800-468-9716

If you have any questions or require additional copies of relevant documents please contact Wells Fargo Shareowner Services at:

161 North Concord Exchange South St. Paul, MN 55075 Attn: Corporate Actions, Rigel Pharmaceuticals, Inc. Rights Offering Telephone Number: 1-800-468-9716

By making arrangements with your bank or broker for the delivery of funds on your behalf you may also request such bank or broker to exercise the Subscription Rights Certificate on your behalf.

Alternatively, you may cause a written guarantee substantially in the form of Exhibit A to these instructions (the "Notice of Guaranteed Delivery"), from a member firm of a registered national securities exchange or a member of the National Association of Securities Dealers, Inc., or from a commercial bank or trust company having an office or correspondent in the United States or from a bank, stockbroker, savings and loan association or credit union with membership in an approved signature guarantee medallion program, pursuant to Rule 17Ad-15 of the Securities Exchange Act of 1934, as amended (each, an "Eligible Institution"), to be received by the Subscription Agent on or prior to the Expiration Date together with payment in full for each share of our common stock under your Basic Subscription Privilege and your Over-Subscription Privilege. Such Notice of Guaranteed Delivery must state your name, the number of Rights represented by the Subscription Rights Certificate or Subscription Rights Certificates held by you, the number of Underlying Shares being subscribed for pursuant to your Basic Subscription Privilege and the number of Underlying Shares, if any, being subscribed for pursuant to the Over-Subscription Privilege, and that you will guarantee the delivery to the Subscription Agent of any properly completed and executed Subscription Rights Certificate or Subscription Rights Certificates evidencing such Rights within three (3) Nasdaq National Market trading days following the date of the Notice of Guaranteed Delivery. If this procedure is followed, the properly completed Subscription Rights Certificate or Subscription Rights Certificates evidencing the Rights being exercised, with any signatures required to be guaranteed so guaranteed, must be received by the Subscription Agent within three (3) Nasdaq National Market trading days following the date of the Notice of Guaranteed Delivery may be delivered to the Subscription Agent in the same manner as Subscription Rights Certificates at the address set forth

Banks, brokers and other nominee holders of Rights who exercise the Basic Subscription Privilege and the Over-Subscription Privilege on behalf of beneficial owners of Rights will be required to certify to the Subscription Agent and Rigel, in connection with the exercise of the Over-Subscription Privilege, as to the number of shares held on the record date on the beneficial owner's behalf, the number of Rights exercised under the Basic Subscription Privilege, that the entire Basic Subscription Privilege held in the same capacity has been exercised in full, and the number of Underlying Shares subscribed for pursuant to the Over-Subscription Privilege. Certain other information received from the nominee holder must also be disclosed to the Subscription Agent and Rigel. If more Excess Shares are subscribed for pursuant to the Over-Subscription Privilege than are available for sale, the Excess Shares will be allocated, as described above, among beneficial owners exercising the Over-Subscription Privilege in proportion to such owners' exercise of Rights pursuant to the Basic Subscription Privilege.

If you exercise less than all of the Rights evidenced by your Subscription Rights Certificate by so indicating on your Subscription Rights Certificate, the Subscription Agent will, if you so request, issue to you a new Subscription Rights Certificate evidencing the unexercised Rights. A new Subscription Rights Certificate will be issued to you according to your instructions upon the partial exercise of Rights only if the Subscription Agent receives a properly endorsed Subscription Rights Certificate no

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later than the fifth business day prior to the Expiration Date. After that date no new Subscription Rights Certificates will be issued. Accordingly, after such date if you exercise less than all of your Rights you will lose the power to exercise your remaining Rights. A new Subscription Rights Certificate will be sent by first class mail to you if the Subscription Agent receives your properly completed Subscription Rights Certificate by 5:00 p.m. Central Daylight time on , 2003. All deliveries of newly issued Subscription Rights Certificates will be at your own risk.

If you do not indicate the number of Rights being exercised, or do not forward full payment of the total Subscription Price for the number of Rights that you indicate are being exercised, then you will be deemed to have exercised the Basic Subscription Privilege with respect to the maximum number of Rights that may be exercised for the aggregate Subscription Price payment you delivered to the Subscription Agent. If your aggregate Subscription Price payment is greater than the amount you owe for your subscription, you will be deemed to have exercised the full Basic Subscription Privilege and the Over-Subscription Privilege to purchase the maximum number of shares of Underlying Shares with your overpayment. If we do not apply your full Subscription Price payment to your purchase of shares of our Underlying Shares, we will return the excess amount to you by mail without interest or deduction as soon as practicable after the expiration date of the Rights Offering.

2. ISSUANCE OF COMMON STOCK.

The following deliveries and payments will be made to the address shown on the face of your Subscription Rights Certificate unless you provide instructions to the contrary in your Subscription Rights Certificate:

- a. **Basic Subscription Privilege.** As soon as practicable after the Expiration Date and the valid exercise of Rights, the Subscription Agent will mail to each exercising Rights holder certificates representing shares of Common Stock purchased pursuant to the Basic Subscription Privilege; provided, that if a Rights holder exercises both the Basic Subscription Privilege and the Over-Subscription Privilege, all shares of Common Stock purchased in the Rights Offering will be delivered as set forth in Section 2.b. below. See "The Rights Offering—Subscription Privileges—Basic Subscription Privilege" in the Prospectus.
- b. **Over-Subscription Privilege.** As soon as practicable after the Expiration Date and after all pro rations and adjustments contemplated by the terms of the Rights Offering have been effected, the Subscription Agent will mail to each Rights holder who validly exercises the Over-Subscription Privilege certificates representing the number of shares of Common Stock, if any, allocated to such Rights holder pursuant to the Over-Subscription Privilege, as well as the number of shares of Common Stock purchased by such holder pursuant to the Basic Subscription Privilege. See "The Rights Offering—Subscription Privileges—Over-Subscription Privilege" in the Prospectus.
- c. Excess Cash Payments. As soon as practicable after the Expiration Date and after all pro rations and adjustments contemplated by the terms of the Rights Offering have been effected, the Subscription Agent will mail to each Rights holder who exercises the Over-Subscription Privilege any excess amount, without interest or deduction, received in payment of the Subscription Price for Excess Shares that are subscribed for by such Rights holder but not allocated to such Rights holder pursuant to the Over-Subscription Privilege.

3. EXECUTION.

a. **Execution by Registered Holder.** The signature on the Subscription Rights Certificate must correspond with the name of the registered holder exactly as it appears on the face of the Subscription Rights Certificate without any alteration or change whatsoever. Persons who sign the Subscription Rights Certificate in a representative or other fiduciary capacity must indicate

their capacity when signing and, unless waived by the Subscription Agent in its sole and absolute discretion, must present to the Subscription Agent satisfactory evidence of their authority to so act.

- b. **Execution by Person Other than Registered Holder.** If the Subscription Rights Certificate is executed by a person other than the holder named on the face of the Subscription Rights Certificate, proper evidence of authority of the person executing the Subscription Rights Certificate must accompany the same unless, for good cause, the Subscription Agent dispenses with proof of authority.
- c. Signature Guarantees. Your signature must be guaranteed by an Eligible Institution if you specify special payment or delivery instructions.

4. METHOD OF DELIVERY.

The method of delivery of Subscription Rights Certificates and payment of the Subscription Price to the Subscription Agent will be at the election and risk of the Rights holder, but, if sent by mail, it is recommended that such certificates and payments be sent by registered mail, properly insured, with return receipt requested, and that a sufficient number of days be allowed to ensure delivery to the Subscription Agent and the clearance of payment prior to 5:00 p.m. Central Daylight time on the Expiration Date. Because uncertified personal checks may take at least five business days to clear, you are strongly urged to pay, or arrange for payment, by means of certified or cashier's check, money order or wire transfer of funds.

5. SPECIAL PROVISIONS RELATING TO THE DELIVERY OF RIGHTS THROUGH THE DEPOSITORY TRUST COMPANY.

In the case of Rights that are held of record through the Depository Trust Company (the "DTC"), exercises of the Basic Subscription Privilege and of the Over-Subscription Privilege may be effected by instructing the DTC to transfer Rights from the DTC account of such holder to the DTC account of the Subscription Agent, together with certification as to the aggregate number of Rights being exercised and the number of Underlying Shares thereby subscribed for pursuant to the Basic Subscription Privilege and the Over-Subscription Privilege by each beneficial owner of Rights on whose behalf such nominee is acting, and payment of the Subscription Price for each share of Common Stock subscribed for pursuant to the Basic Subscription Privilege and the Over-Subscription Privilege.

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EXHIBIT A

NOTICE OF GUARANTEED DELIVERY FOR SUBSCRIPTION RIGHTS CERTIFICATES ISSUED BY RIGEL PHARMACEUTICALS, INC.

This form, or one substantially equivalent hereto, must be used to exercise Rights pursuant to the Rights Offering described in the prospectus dated (the "Prospectus") of Rigel Pharmaceuticals, Inc., a Delaware corporation ("Rigel"), if a holder of Rights cannot deliver the certificate(s) evidencing the Rights (the "Subscription Rights Certificate(s)"), to the Subscription Agent listed below (the "Subscription Agent") at or prior to 5:00 p.m., Central Daylight time, on , 2003, unless such time is extended by Rigel as described in the Prospectus (as it may be extended, the "Expiration Date"). Such form must be delivered by hand or sent by telegram, facsimile transmission, mail or overnight courier to the Subscription Agent, and must be received by the Subscription Agent on or prior to 5:00 p.m., Central Daylight time on the Expiration Date. See "The Rights Offering—Method of Subscription—Exercise of Rights" in the Prospectus.

Payment of the Subscription Price of \$0.64 per share for each share of Rigel's common stock, par value \$0.001 per share ("Common Stock"), subscribed for upon exercise of such Rights must be received by the Subscription Agent in the manner specified in "The Rights Offering—Method of Payment" in the Prospectus at or prior to 5:00 p.m. Central Daylight time on the Expiration Date even if the Subscription Rights Certificate(s) evidencing such Rights is (are) being delivered pursuant to the Guaranteed Delivery Procedures thereof. See "The Rights Offering—Method of Subscription—Exercise of Rights" in the Prospectus.

The Subscription Agent is: Wells Fargo Bank, MN, N.A.

if by Mail, Hand or Overnight Courier, to:
Wells Fargo Bank, MN, N.A.
161 North Concord Exchange
South St. Paul, MN 55075
Attn: Corporate Actions, Rigel
Pharmaceuticals, Inc. Rights Offering
Telephone Number for Confirmation: 1-800-468-9716

DELIVERY TO ANY ADDRESS OR BY ANY METHOD OTHER THAN AS SET FORTH ABOVE DOES NOT CONSTITUTE VALID DELIVERY.

If you have any questions or require additional copies of relevant documents please contact Wells Fargo Shareowner Services at:

161 North Concord Exchange South St. Paul, MN 55075 Attn: Corporate Actions, Rigel Pharmaceuticals, Inc. Rights Offering Telephone Number: 1-800-468-9716

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Ladies and Gentlemen:

The undersigned hereby represents that the undersigned is the holder of Subscription Rights Certificate(s) representing Rights and that such Subscription Rights

Certificate(s) cannot be delivered to the Subscription Agent at or before 5:00 p.m. Central Daylight time on the Expiration Date. Upon the terms and subject to the conditions set forth in the Prospectus, receipt of which is hereby acknowledged, the undersigned hereby elects to exercise (i) the Basic Subscription Privilege to subscribe for share(s) of

Common Stock with respect to each of the Rights represented by such Subscription Rights Certificate(s) and (ii) the Over-Subscription Privilege relating to such Rights, to the extent that shares of Common Stock that are not otherwise purchased pursuant to the exercise of Rights are available therefor, subject to availability and pro ration. The undersigned understands that payment of the Subscription Price of \$0.64 per share for each share of Common Stock subscribed for pursuant to the Basic Subscription Privilege and the Over-Subscription Privilege must be received by the Subscription Agent at or before 5:00 p.m. Central Daylight time on the Expiration Date and represents that such payment, in the aggregate amount of \$_ _ either (check appropriate box): is being delivered to the Subscription Agent herewith; or has been delivered separately to the Subscription Agent in the manner set forth below (check appropriate box and complete information relating thereto): ☐ Wire transfer of funds Name of transferor institution: Date of transfer: Confirmation number (if available): ☐ Uncertified check (Payment by uncertified check will not be deemed to have been received by the Subscription Agent until such check has cleared. Holders paying by such means are urged to make payment sufficiently in advance of the Expiration Date to ensure that such payment clears by such □ Certified check Bank draft (cashier's check) Money order Name of maker: Date of check, draft or money order: Check, draft or money order number: Bank or other institution on which check is drawn or issuer of money order: 7 Number of shares of Common Stock being subscribed for pursuant to the exercise of the undersigned's Basic Subscription Privilege: Number of shares of Common Stock being subscribed for pursuant to the exercise of the undersigned's Over-Subscription Privilege, subject to availability and pro ration: Total number of shares of Common Stock being subscribed for pursuant to the exercise of the undersigned's Basic Subscription Privilege and Over-Subscription Privilege, if any, subject to availability and pro ration in the case of the Over-Subscription Privilege: Signature(s) Address

Name(s) (Please type or print) Area Code and Tel. No(s). Subscription Rights Certificates No(s). 8

(Not To Be Used For Subscription Rights Certificate Signature Guarantee)

The undersigned, a member firm of a registered national securities exchange or of the National Association of Securities Dealers, Inc., or a commercial bank or trust company having an office or correspondent in the United States, or a bank, stockbroker, savings and loan association or credit union with membership in an approved signature guarantee medallion program, pursuant to Rule 17Ad-15 of the Securities Exchange Act of 1934, as amended, guarantees that the undersigned will deliver to the Subscription Agent the certificates representing the Rights being exercised hereby and the related nominee holder certificate, if applicable, with any required signature guarantee and any other required documents, all within three (3) Nasdaq National Market trading days after the date hereof.

Dated:		
(Address)	(Name of Firm)	
(Area Code and Telephone Number)	(Authorized Signature)	
The institution that completes this form must communicate the guarantee to the Subscription Agent and must deliver the Subscription Rights Certificate(s) to the Subscription Agent within the time period shown in the prospectus of Rigel Pharmaceuticals, Inc., dated , 2003. Failure to do so could result in a financial loss to such institution.		
<u> </u>	9	

QuickLinks

Exhibit 99.1

INSTRUCTIONS AS TO USE OF RIGEL PHARMACEUTICALS, INC. SUBSCRIPTION RIGHTS CERTIFICATES CONSULT THE SUBSCRIPTION AGENT, YOUR BANK OR BROKER AS TO ANY QUESTIONS

EXHIBIT A

NOTICE OF GUARANTEED DELIVERY FOR SUBSCRIPTION RIGHTS CERTIFICATES ISSUED BY RIGEL PHARMACEUTICALS, INC. GUARANTEE OF DELIVERY

NOTICE OF GUARANTEED DELIVERY FOR SUBSCRIPTION RIGHTS CERTIFICATES ISSUED BY RIGEL PHARMACEUTICALS, INC.

This form, or one substantially equivalent hereto, must be used to exercise Rights pursuant to the Rights Offering described in the prospectus dated (the "Prospectus") of Rigel Pharmaceuticals, Inc., a Delaware corporation ("Rigel"), if a holder of Rights cannot deliver the certificate(s) evidencing the Rights (the "Subscription Rights Certificate(s)"), to the Subscription Agent listed below (the "Subscription Agent") at or prior to 5:00 p.m. Central Daylight time on , 2003, unless such time is extended by Rigel as described in the Prospectus (as it may be extended, the "Expiration Date"). Such form must be delivered by hand or sent by telegram, facsimile transmission, mail or overnight courier to the Subscription Agent, and must be received by the Subscription Agent on or prior to 5:00 p.m., Central Daylight time on the Expiration Date. See "The Rights Offering—Method of Subscription—Exercise of Rights" in the Prospectus.

Payment of the Subscription Price of \$0.64 per share for each share of Rigel's common stock, par value \$0.001 per share ("Common Stock"), subscribed for upon exercise of such Rights must be received by the Subscription Agent in the manner specified in "The Rights Offering—Method of Payment" in the Prospectus at or prior to 5:00 p.m. Central Daylight time on the Expiration Date even if the Subscription Rights Certificate(s) evidencing such Rights is (are) being delivered pursuant to the Guaranteed Delivery Procedures thereof. See "The Rights Offering—Method of Subscription—Exercise of Rights" in the Prospectus.

The Subscription Agent is: Wells Fargo Bank, MN, N.A.

if by Mail, Hand or Overnight Courier, to:
Wells Fargo Bank, MN, N.A.
161 North Concord Exchange
South St. Paul, MN 55075
Attn: Corporate Actions, Rigel
Pharmaceuticals, Inc. Rights Offering
Telephone Number for Confirmation: 1-800-468-9716

DELIVERY TO ANY ADDRESS OR BY ANY METHOD OTHER THAN AS SET FORTH ABOVE DOES NOT CONSTITUTE VALID DELIVERY.

If you have any questions or require additional copies of relevant documents please contact Wells Fargo Shareowner Services at:

161 North Concord Exchange South St. Paul, MN 55075 Attn: Corporate Actions, Rigel Pharmaceuticals, Inc. Rights Offering Telephone Number: 1-800-468-9716

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Ladies and Gentlemen:

The undersigned hereby represents that the undersigned is the holder of Subscription Rights Certificate(s) representing Rights and that such Subscription Rights
Certificate(s) cannot be delivered to the Subscription Agent at or before 5:00 p.m. Central Daylight time on the Expiration Date. Upon the terms and subject to the conditions set
forth in the Prospectus, receipt of which is hereby acknowledged, the undersigned hereby elects to exercise (i) the Basic Subscription Privilege to subscribe for share(s) of
Common Stock with respect to each of the Rights represented by such Subscription Rights Certificate(s) and (ii) the Over-Subscription Privilege relating to such Rights, to the
extent that shares of Common Stock that are not otherwise purchased pursuant to the exercise of Rights are available therefor, subject to availability and pro ration.

yment, in the	ne aggregate amount of \$ either (check appropriate box):	
	is being delivered to the Subscription Agent herewith;	
or		
	has been delivered separately to the Subscription Agent in the manner set forth below (check appropriate box and complete information relating thereto)	
	☐ Wire transfer of funds	
	Name of transferor institution:	
	Date of transfer: Confirmation number (if available):	
	☐ Uncertified check (Payment by uncertified check will not be deemed to have been received by the Subscription Agent until such check has cleared. Holders paying by such means are urged to make payment sufficiently in advance of the Expiration Date to ensure that such payment clears by such date.)	
	☐ Certified check	
	☐ Bank draft (cashier's check)	

☐ Money order		
Name of maker:		
Date of check, draft or money order:		
Check, draft or money order number:		
Bank or other institution on which check is drawn or issuer of money order:		
	2	
Number of shares of Common Stock being subscribed for pursuant to t	the exercise of the undersigned's Basic Subscription Privilege:	
Number of shares of Common Stock being subscribed for pursuant to	the exercise of the undersigned's Over-Subscription Privilege, subject to availability and pro ration:	
Total number of shares of Common Stock being subscribed for pursual subject to availability and pro ration in the case of the Over-Subscription	ant to the exercise of the undersigned's Basic Subscription Privilege and Over-Subscription Privilege, if any, ion Privilege:	
Signature(s)	Address	
Name(s) (Please type or print)	Area Code and Tel. No(s).	
Subscription Rights Certificates No(s).		
	3	
The undersigned, a member firm of a registered national securitie company having an office or correspondent in the United States, or a b guarantee medallion program, pursuant to Rule 17Ad-15 of the Securit	GUARANTEE OF DELIVERY For Subscription Rights Certificate Signature Guarantee) se exchange or of the National Association of Securities Dealers, Inc., or a commercial bank or trust bank, stockbroker, savings and loan association or credit union with membership in an approved signature ties Exchange Act of 1934, as amended, guarantees that the undersigned will deliver to the Subscription and the related nominee holder certificate, if applicable, with any required signature guarantee and any t trading days after the date hereof.	
(Address)	(Name of Firm)	
(Area Code and Telephone Number) The institution that completes this form must communicate the gu Subscription Agent within the time period shown in the prospectus of I such institution.	(Authorized Signature) uarantee to the Subscription Agent and must deliver the Subscription Rights Certificate(s) to the Rigel Pharmaceuticals, Inc., dated , 2003. Failure to do so could result in a financial loss to	

Exhibit 99.2

 $\frac{\text{NOTICE OF GUARANTEED DELIVERY FOR SUBSCRIPTION RIGHTS CERTIFICATES ISSUED BY RIGEL PHARMACEUTICALS, INC.}{\text{GUARANTEE OF DELIVERY}}$

Exhibit 99.3

RIGEL PHARMACEUTICALS, INC. SHARES OF COMMON STOCK OFFERED PURSUANT TO RIGHTS DISTRIBUTED TO RECORD STOCKHOLDERS OF RIGEL PHARMACEUTICALS, INC.

, 2003

Dear Stockholder:

This notice is being distributed by Rigel Pharmaceuticals, Inc. ("Rigel") to all holders of record ("Recordholders") of shares of its common stock, par value \$0.001 per share (the "Common Stock"), at 5:00 p.m. Central Daylight time on April 29, 2003 (the "Record Date"), in connection with a distribution in a rights offering (the "Rights Offering") of subscription rights (the "Rights") to subscribe for and purchase shares of Common Stock. The Rights are described in Rigel's prospectus dated 2003 (the "Prospectus").

In the Rights Offering, Rigel is offering an aggregate of 15,625,000 shares of its Common Stock (the "Underlying Shares"), as described in the Prospectus. The Rights will expire, if not exercised, at 5:00 p.m. Central Daylight time on , 2003, unless extended in the sole discretion of Rigel (as it may be extended, the "Expiration Date"). As described in the accompanying Prospectus, you will receive one Right for each share of Common Stock owned of record as of the close of business on the Record Date. Each right will allow you to subscribe for of a share of Common Stock (the "Basic Subscription Privilege") at the cash price of \$0.64 per share (the "Subscription Price").

In addition, each holder of Rights who exercises their Basic Subscription Privilege in full will be eligible to subscribe (the "Over-Subscription Privilege") at the same cash price of \$0.64 per share for shares of Common Stock that are not otherwise purchased pursuant to the exercise of Rights under the Basic Subscription Privilege (the "Excess Shares"), subject to availability and pro ration as described below. Each holder of Rights may only exercise their Over-Subscription Privilege if they exercised their Basic Subscription Privilege in full and other holders of subscription Rights do not exercise their Basic Subscription Privilege in full. If there are not enough Excess Shares to satisfy all subscriptions made under the Over-Subscription Privilege, Rigel will allocate the remaining Excess Shares pro rata, after eliminating all fractional shares, among those Rights holders who exercised their Over-Subscription Privileges. "Pro rata" means in proportion to the number of Underlying Shares that each holder of Rights has purchased by exercising their Basic Subscription Privileges. If there is a pro rata allocation of the remaining Excess Shares and a holder of Rights receives an allocation of a greater number of Excess Shares than they subscribed for under their Over-Subscription Privilege, then Rigel will allocate to them only the number of Excess Shares for which they subscribed. Rigel will allocate the remaining Excess Shares among all other holders exercising their Over-Subscription Privileges. See "The Rights Offering—Subscription Privileges" in the Prospectus.

The Rights will be evidenced by Rights certificates (the "Subscription Rights Certificates"). Enclosed are copies of the following documents:

- The Prospectus;
- 2. The Subscription Rights Certificate;
- 3. Instructions as to Use of Rigel Pharmaceuticals, Inc. Subscription Rights Certificates (including a Notice of Guaranteed Delivery for Subscription Rights Certificates Issued by Rigel Pharmaceuticals, Inc.) (the "Subscription Rights Certificate Instructions"); and

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4. A return envelope addressed to the subscription agent Wells Fargo Bank, MN, N.A. (the "Subscription Agent").

Your prompt action is requested. To exercise Rights, you should properly complete and sign the Subscription Rights Certificate (or the Notice of Guaranteed Delivery if you are following the Guaranteed Delivery Procedures, as described in Subscription Rights Certificate Instructions) and forward it, with payment of the Subscription Price in full for each share of Common Stock subscribed for pursuant to the Basic Subscription Privilege and the Over-Subscription Privilege, to the Subscription Agent, as indicated in the Prospectus. The Subscription Agent must receive the Subscription Rights Certificate or Notice of Guaranteed Delivery with payment of the Subscription Price, including final clearance of any checks, prior to 5:00 p.m. Central Daylight time on the Expiration Date. FAILURE TO RETURN THE PROPERLY COMPLETED SUBSCRIPTION RIGHTS CERTIFICATE WITH THE CORRECT PAYMENT WILL RESULT IN YOUR NOT BEING ABLE TO EXERCISE YOUR SUBSCRIPTION RIGHTS. A Rights holder cannot revoke the exercise of its Rights. Rights not exercised prior to the Expiration Date will expire.

Additional copies of the enclosed materials may be obtained from the Subscription Agent. The Subscription Agent's telephone number is 800-468-9716.

Very truly yours,

/s/ James H. Welch

James H. Welch Vice President, Chief Financial Officer and Secretary

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Exhibit 99.3



Exhibit 99.4

RIGEL PHARMACEUTICALS, INC. SHARES OF COMMON STOCK OFFERED PURSUANT TO RIGHTS DISTRIBUTED TO RECORD STOCKHOLDERS OF RIGEL PHARMACEUTICALS, INC.

, 2003

To Securities Dealers, Commercial Banks, Trust Companies and Other Nominees:

This letter is being distributed to securities dealers, commercial banks, trust companies and other nominees in connection with the rights offering (the "Rights Offering") by Rigel Pharmaceuticals, Inc. ("Rigel") of shares of its common stock (as such term is defined below), pursuant to subscription rights (the "Rights") distributed to all holders of record ("Recordholders") of shares of Rigel's common stock, par value \$0.001 per share (the "Common Stock"), at 5:00 p.m. Central Daylight time on April 29, 2003 (the "Record Date"). The Rights are described in Rigel's prospectus dated , 2003 (the "Prospectus").

In the Rights Offering, Rigel is offering an aggregate of 15,625,000 shares of Common Stock, as described in the Prospectus. The Rights will expire, if not exercised, at 5:00 p.m. Central Daylight time on , 2003, unless extended in the sole discretion of Rigel (as it may be extended, the "Expiration Date"). Each Right allows the holder thereof to subscribe for of a share of Common Stock (the "Basic Subscription Privilege") at the cash price of \$0.64 per share (the "Subscription Price"). Each Right also carries with it the ability for the holder thereof to subscribe (the "Over-Subscription Privilege") for additional shares of Common Stock that have not been purchased by other Recordholders pursuant to their Basic Subscription Privilege, at the Subscription Price, if such holder has fully exercised its Basic Subscription Privilege. See "The Rights Offering—Subscription Privileges" in the Prospectus.

The Rights are evidenced by a Rights certificate (a "Subscription Rights Certificate") registered in your name or the name of your nominee. Each beneficial owner of shares of Common Stock registered in your name or the name of your nominee is entitled to one non-transferable Right for each share of Common Stock owned by such beneficial owner as of the close of business on the Record Date.

We are asking persons who hold shares of Common Stock beneficially and who have received the Rights distributable with respect to those shares through a broker, dealer, commercial bank, trust company or other nominee, as well as persons who hold certificates of Common Stock directly and prefer to have such institutions effect transactions relating to the Rights on their behalf, to contact the appropriate institution or nominee and request it to effect the transactions for them. In addition, we are asking beneficial owners who wish to obtain a separate Subscription Rights Certificate to contact the appropriate nominee as soon as possible and request that a separate Subscription Rights Certificate be issued.

Please take prompt action to notify any beneficial owners of Common Stock as to the Rights Offering and the procedures and deadlines which must be followed to exercise their Rights. If you exercise the Over-Subscription Privilege on behalf of beneficial owners of Rights, you will be required to certify to the Subscription Agent and Rigel, in connection with the exercise of the Over-Subscription Privilege, as to the number of shares held on the record date on the beneficial owner's behalf, the number of Rights exercised under the Basic Subscription Privilege, that the entire Basic Subscription Privilege held in the same capacity has been exercised in full, and the number of shares of Common Stock subscribed for pursuant to the Over-Subscription Privilege. Certain other information received

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from the nominee holder must also be disclosed to Wells Fargo Bank, MN, N.A. (the "Subscription Agent") and Rigel.

All commissions, fees and other expenses (including brokerage commissions and transfer taxes), other than fees and expenses of the Subscription Agent, incurred in connection with the exercise of the Rights will be for the account of the holder of the Rights, and none of such commissions, fees or expenses will be paid for by Rigel or the Subscription Agent. Enclosed are copies of the following documents:

- 1. The Prospectus;
- 2. Instructions as to Use of Rigel Pharmaceuticals, Inc. Subscription Rights Certificates (including Notice of Guaranteed Delivery for Subscription Rights Certificates Issued by Rigel Pharmaceuticals, Inc.) (the "Subscription Rights Certificate Instructions");
- 3. A form letter which may be sent to your clients for whose accounts you hold shares of Common Stock registered in your name or the name of your nominee, with an attached form of instruction:
- 4. Notice of Guaranteed Delivery for Subscription Rights Certificates Issued by Rigel Pharmaceuticals, Inc.;
- 5. Nominee Holder Certification; and
- 6. A return envelope addressed to the Subscription Agent.

Your prompt action is requested. To exercise Rights, you should deliver the properly completed and signed Subscription Rights Certificate (or the Notice of Guaranteed Delivery if you are following the Guaranteed Delivery Procedures, as described in the Subscription Rights Certificate Instructions), with payment of the Subscription Price in full for each share of Common Stock subscribed for, to the Subscription Agent, as indicated in the Prospectus. The Subscription Agent must receive the Subscription Rights Certificate or Notice of Guaranteed Delivery with payment of the Subscription Price, including final clearance of any checks, prior to 5:00 p.m. Central Daylight time on the Expiration Date. FAILURE TO RETURN THE PROPERLY COMPLETED SUBSCRIPTION RIGHTS CERTIFICATE WITH THE CORRECT PAYMENT WILL RESULT IN YOUR NOT BEING ABLE TO EXERCISE YOUR SUBSCRIPTION RIGHTS. A Rights holder cannot revoke the exercise of its Rights. Rights not exercised prior to the Expiration Date will expire.

Additional copies of the enclosed materials may be obtained from the Subscription Agent, Wells Fargo Bank, MN, N.A. The Subscription Agent's telephone number is 1-800-468-9716.

Very truly yours,

Nothing in the Prospectus or in the enclosed documents shall constitute you or any person as an agent of Rigel Pharmaceuticals, Inc., the Subscription Agent or any other person making or deemed to be making offers of the securities issuable upon valid exercise of the rights, or authorize you or any other person to make any statements on behalf of any of them with respect to the offering except for statements expressly made in the Prospectus.

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QuickLinks

Exhibit 99.4

 $\frac{\text{RIGEL PHARMACEUTICALS, INC. SHARES OF COMMON STOCK OFFERED PURSUANT TO RIGHTS DISTRIBUTED TO RECORD STOCKHOLDERS OF RIGEL \\ \frac{\text{PHARMACEUTICALS, INC., 2003}}{\text{PHARMACEUTICALS, INC., 2003}}$

Exhibit 99.5

RIGEL PHARMACEUTICALS, INC. SHARES OF COMMON STOCK OFFERED PURSUANT TO RIGHTS DISTRIBUTED TO RECORD STOCKHOLDERS OF RIGEL PHARMACEUTICALS, INC.

, 2003

To Our Clients:

Enclosed for your consideration are a prospectus, dated , 2003 (the "Prospectus"), and the "Instructions as to Use of Rigel Pharmaceuticals, Inc. Subscription Rights Certificates" relating to the offering (the "Rights Offering") by Rigel Pharmaceuticals, Inc. ("Rigel") of shares of its common stock pursuant to subscription rights (the "Rights") distributed to all holders of record of shares of its common stock, par value \$0.001 per share (the "Common Stock"), at 5:00 p.m. Central Daylight time on April 29, 2003 (the "Record Date"). The Rights are described in Rigel's Prospectus.

In the Rights Offering, Rigel is offering an aggregate of 15,625,000 shares of its Common Stock (the "Underlying Shares"), as described in the Prospectus. The Rights will expire, if not exercised, at 5:00 p.m. Central Daylight time on , 2003, unless extended in the sole discretion of Rigel (as it may be extended, the "Expiration Date"). As described in the accompanying Prospectus, you will receive one Right for each share of Common Stock carried by us in your account as of the Record Date. Each Right will allow you to subscribe for of a share of Common Stock (the "Basic Subscription Privilege") at the cash price of \$0.64 per share (the "Subscription Price").

In addition, each holder of Rights who exercises their Basic Subscription Privilege in full will be eligible to subscribe (the "Over-Subscription Privilege") at the same cash price of \$0.64 per share for shares of Common Stock that are not otherwise purchased pursuant to the exercise of Rights under the Basic Subscription Privilege (the "Excess Shares"), subject to availability and pro ration as described below. Each holder of Rights may only exercise their Over-Subscription Privilege if they exercised their Basic Subscription Privilege in full and other holders of subscription Rights do not exercise their Basic Subscription Privilege in full. If there are not enough Excess Shares to satisfy all subscriptions made under the Over-Subscription Privilege, Rigel will allocate the remaining Excess Shares pro rata, after eliminating all fractional shares, among those Rights holders who exercised their Over-Subscription Privileges. "Pro rata" means in proportion to the number of Underlying Shares that each holder of Rights has purchased by exercising their Basic Subscription Privileges. If there is a pro rata allocation of the remaining Excess Shares and a holder of Rights receives an allocation of a greater number of Excess Shares than they subscribed for under their Over-Subscription Privilege, then Rigel will allocate to them only the number of Excess Shares for which they subscribed. Rigel will allocate the remaining Excess Shares among all other holders exercising their Over-Subscription Privileges. See "The Rights Offering—Subscription Privileges" in the Prospectus.

The Rights will be evidenced by Rights certificates and will be null and void at the close of business on the Expiration Date.

The materials enclosed are being forwarded to you as the beneficial owner of Common Stock carried by us in your account but not registered in your name. Exercises and sales of Rights may be made only by us as the record owner and pursuant to your instructions. Accordingly, we request instructions as to whether you wish us to elect to subscribe for any shares of Common Stock, to which you are entitled pursuant to the terms and subject to the conditions set forth in the enclosed Prospectus. However, we urge you to read the Prospectus and other enclosed materials carefully before instructing us to exercise your Rights.

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Your instructions to us should be forwarded as promptly as possible in order to permit us to exercise Rights on your behalf in accordance with the provisions of the Rights Offering. The Rights Offering will expire at 5:00 p.m. Central Daylight time on the Expiration Date. Once you have exercised your Basic Subscription Privilege and your Over-Subscription Privilege, such exercise may not be revoked.

If you wish to have us, on your behalf, exercise the Rights for any shares of Common Stock to which you are entitled, please so instruct us by completing, executing and returning to us the instruction form on the reverse side of this letter.

ANY QUESTIONS OR REQUESTS FOR ASSISTANCE CONCERNING THE RIGHTS OFFERING SHOULD BE DIRECTED TO WELLS FARGO SHAREOWNER SERVICES AT THE FOLLOWING TELEPHONE NUMBER: 1-800-468-9716.

Very truly yours,

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QuickLinks

Exhibit 99.5

RIGEL PHARMACEUTICALS, INC. SHARES OF COMMON STOCK OFFERED PURSUANT TO RIGHTS DISTRIBUTED TO RECORD STOCKHOLDERS OF RIGEL PHARMACEUTICALS, INC., 2003

BENEFICIAL OWNER ELECTION FORM

The undersigned acknowledge(s) receipt of your letter and the enclosed materials referred to therein relating to the offering of shares of common stock of Rigel Pharmaceuticals, Inc. ("Rigel").

This will instruct you whether to exercise Rights to purchase shares of Rigel's common stock distributed with respect to the shares of Rigel's common stock held by you for the account of the undersigned, pursuant to the terms and subject to the conditions set forth in the Prospectus and the related "Instructions as to Use of Rigel Pharmaceuticals, Inc. Subscription Rights Certificates."

Please DO NOT EXERCISE Rights for shares of common stock.						
Please EXERCISE RIGHTS for shares of the common stock as set forth below.						
_	Number of Rights		Subscription Price Per Share	Payment		
Basic Subscription Privilege		X	\$0.64	= \$		
_				(Line 1)		
Over-Subscription Privilege		X	\$0.64	= \$		
				(Line 2)		
Total Payment Required				= \$		
_				(Sum of Lines 1 and 2; must equal total of amount in Boxes 3 and 4)		
Payment in the following amount is enclo	osed:					
Please deduct payment from the following Type of Account	g account maintained by you as fo Account No.	ollows	:			
Amount to be deducted:	\$					
Date:, 2003	Signature					
	Please type or print	t name	e			
	1					
	Please EXERCISE RIGHTS for shares of Basic Subscription Privilege Over-Subscription Privilege Total Payment Required Payment in the following amount is enclosed Please deduct payment from the following Type of Account Amount to be deducted:	Please EXERCISE RIGHTS for shares of the common stock as set forth be Number of Rights Basic Subscription Privilege Over-Subscription Privilege Total Payment Required Payment in the following amount is enclosed: Please deduct payment from the following account maintained by you as for Type of Account Amount to be deducted: \$ Date:, 2003 Signature Please type or prin	Please EXERCISE RIGHTS for shares of the common stock as set forth below. Number of Rights	Please EXERCISE RIGHTS for shares of the common stock as set forth below. Number of Rights		

QuickLinks

Exhibit 99.6

BENEFICIAL OWNER ELECTION FORM

RIGEL PHARMACEUTICALS, INC.

NOMINEE HOLDER CERTIFICATION

The undersigned, a bank, broker, trustee, depositary or other nominee holder of subscription rights ("Rights") to purchase shares of common stock ("Common Stock") of Rigel Pharmaceuticals, Inc. ("Rigel") pursuant to the Rights Offering described and provided for in Rigel's prospectus dated , 2003 (the "Prospectus"), hereby certifies to Rigel and Wells Fargo Bank, MN, N.A., as Subscription Agent for such rights offering, that:

- 1. the undersigned has exercised, on behalf of the beneficial owners thereof (which may include the undersigned), the number of Rights specified below pursuant to the Basic Subscription Privilege (as described in the Prospectus) on behalf of beneficial owners of Rights who have subscribed for the purchase of additional shares of Common Stock pursuant to the Over-Subscription Privilege (as described in the Prospectus), listing separately below each such exercised Basic Subscription Privilege and the corresponding Over-Subscription Privilege (without identifying any such beneficial owner); and
- 2. each such beneficial owner's Basic Subscription Privilege has been exercised in full if it is exercising its Over-Subscription Privilege.

	Number of Shares Owned on the Record Date	Rights Exercised Pursuant to Subscription Privilege	Basic Number of Sh: Subscribed to Pursua Over-Subscription Pri	ant to
1.				
2.				
3.				
4.				
5.				
Provide the fo	ollowing information if applicable:			
Depository Tr	rust Company ("DTC") Participant Number			
[PARTICIPA	ANT]			
Ву:				
Name:				
Title:				
	DTC Basic Subscription Confirmation Number	er(s)		
		1		

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Exhibit 99.7

RIGEL PHARMACEUTICALS, INC. NOMINEE HOLDER CERTIFICATION

Form of Subscription Agent Agreement

Roles and Responsibilities of Rigel Pharmaceuticals, Inc. and Wells Fargo Bank Minnesota, N.A.

This Agreement (this "Agreement") is made and entered into as of June , 2003 by and between RIGEL PHARMACEUTICALS, INC. (the "Company"), and WELLS FARGO BANK MINNESOTA, NATIONAL ASSOCIATION ("Wells Fargo").

WHEREAS the Company intends to distribute to each person that held of record shares of common stock of the Company, par value \$0.001 per share (the "Common Stock"), as of April 29, 2003 (the "Record Date"), one right ("Right") to purchase of a share of Common Stock for each share of Company Common Stock held (the "Rights Offering");

WHEREAS, although the Company expects to effect a reverse stock split after approval of the reverse stock split at the annual meeting of stockholders of the Company on June 20, 2003, all relevant numbers in this Agreement are on a pre-split basis;

WHEREAS the Company requires the services of a subscription agent in connection with the Rights Offering; and

WHEREAS the Company desires that Wells Fargo act as its subscription agent for the purpose of effecting the distribution of Rights to the holders of its Common Stock as of the Record Date pursuant to the terms of the Prospectus dated June 26, 2003 (the "Prospectus");

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the parties hereto agree as follows:

- Rights Offering. The Company is offering to the holders of shares of its Common Stock on the Record Date Rights to subscribe for shares of Common Stock. Rights shall cease to be exercisable at 5:00 p.m., Central Daylight time ("CDT"), on July 24, 2003 or such later date on which the Company notifies Wells Fargo orally and confirms in writing (the "Expiration Date"). The Company will distribute to holders of Common Stock on the Record Date (the "Eligible Rights Holders") Rights to purchase an aggregate of up to 15,625,000 shares of Common Stock; provided, that the term "Eligible Rights Holders" shall not include the stockholders of the Company listed on Exhibit A who have agreed not to participate in the Rights Offering. Each Eligible Rights Holder will receive one Right per share of Common Stock held on the Record Date. One Right and payment in full of the subscription price of \$0.64 per share (the "Subscription Price") are required to subscribe for of a share of Common Stock. Rights will be evidenced by non-transferable subscription certificates in registered form (as attached hereto as Exhibit B, the "Rights Certificates"). Each Eligible Rights Holder who exercises the right to subscribe for all shares that can be subscribed for pursuant to such holder's Rights Certificate (the "Basic Subscription Right") will have the right to subscribe for additional shares, if any, available as a result of any unexercised Rights (such additional subscription rights being referred to hereafter as the "Over-Subscription Right"). The Rights Offering will be conducted in the manner and upon the terms set forth in the Prospectus, which is incorporated herein by reference and made a part hereof as if set forth in full herein.
- 2. **Appointment of Subscription Agent.** Wells Fargo Bank Minnesota, N.A. is hereby appointed as the subscription agent to effect the Rights Offering in accordance with the Prospectus and this Agreement.
- 3. **Material Delivery to Record Stockholders.** Upon instruction from the Company, Wells Fargo will mail, or will cause the following materials to be mailed, via First Class Mail, postage

prepaid, to the post-reverse split stockholders of record of the Company as of the Record Date:

- a Prospectus:
- a letter from the Company to stockholders of record;
- a return envelope addressed to Wells Fargo;
- a Notice of Guaranteed Delivery in the form attached hereto as Exhibit C;
- a Rights Certificate (including instructions as to the use of the Rights Certificate); and
- such other documents as the Company may provide.

Prior to mailing, Wells Fargo will print out a sufficient number of blank Rights Certificates that Wells Fargo will prepare and issue in the names of the Eligible Rights Holders for the number of Rights to which they are entitled. Prior to printing, Wells Fargo will send a final draft copy of a sample Rights Certificate to the Company for the Company's final review and approval.

- 4. Material Delivery to Beneficial Stockholders. Wells Fargo will coordinate the shipment of materials to ADP, through its vendor American Financial Printing. This process includes conducting a broker search, receiving and shipping materials to ADP Reorganization Services and filling requests for materials by non-participating banks, brokers, dealers and other nominees. Wells Fargo will cause the following materials to be delivered to brokers, dealers, banks and other nominee holders of Rights:
 - copies of the Prospectus;
 - copies of a letter from the Company to brokers, dealers, banks and other nominees;
 - return envelopes addressed to Wells Fargo;
 - copies of the Notice of Guaranteed Delivery;
 - · copies of Rights Certificates (including instructions as to the use of the Rights Certificate); and
 - such other documents as the Company may provide.

- 5. **Exercise.** Rights may be exercised at any time prior to the Expiration Date upon the terms and conditions set forth in the Prospectus and in this Agreement.
 - a. An Eligible Rights Holder may exercise its Basic Subscription Right and, if desired, its Over-Subscription Right by completing and executing the exercise portion of the Rights Certificate and delivering it to Wells Fargo along with payment of the Subscription Price for the aggregate number of Common Shares subscribed for prior to 5:00 p.m. CDT on the Expiration Date. An Eligible Rights Holder must exercise such holder's Basic Subscription Right in full in order to be eligible to exercise its Over-Subscription Right. If an Eligible Rights Holder exercises its Basic Subscription Right in full, the holder may exercise its Over-Subscription Right for as many shares of Common Stock as such Eligible Rights Holder indicates on its Rights Certificate and for which the holder submits payment of the Subscription Price, subject to the availability of such shares and allocation set forth in Section 5(b). Any fractional share to which persons exercising their Basic Subscription Right would otherwise be entitled pursuant to such allocation shall be rounded down to the next whole share.

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- b. The Company will issue a maximum of 15,625,000 shares of Common Stock in the Rights Offering. The number of shares of Common Stock available for Over-Subscription Rights will be 15,625,000 minus the number of shares of Common Stock purchased upon exercise of the Basic Subscription Rights. As soon as practicable after the Expiration Date, Wells Fargo shall calculate the total number of shares that are available for the Over-Subscription Right. Upon calculating the number of shares to which each subscriber is entitled pursuant to the Over-Subscription Right and the amount overpaid, if any, by each subscriber, Wells Fargo shall, as soon as practicable, furnish a list of all such information to the Company.
 - (i) In the event that a sufficient number of shares of Common Stock are available, Wells Fargo shall honor exercises of the Over-Subscription Rights in full.
 - (ii) If there are not enough shares to satisfy all subscriptions pursuant to the exercise of the Over-Subscription Rights, Wells Fargo shall allocate the available shares among the Eligible Rights Holders that over-subscribed in proportion to the number of shares of Common Stock subscribed for by exercising the Basic Subscription Right. However, if an Eligible Rights Holder's pro rata allocation exceeds the number of shares of Common Stock the Eligible Rights Holder requested, the Eligible Rights Holder will receive only the number of shares of Common Stock the Eligible Rights Holder requested, and the remaining shares from the Eligible Rights Holder's pro rata allocation will be divided among other Eligible Rights holders exercising their Over-Subscription Rights that have subscribed for additional shares of Common Stock in proportion to the number of shares subscribed for by that group of over-subscribing Eligible Rights Holders through the Over-Subscription Right.
 - (iii) Any fractional share to which persons exercising their Over-Subscription Right would otherwise be entitled pursuant to such allocation shall be rounded down to the next whole share.
- c. If an Eligible Rights Holder does not specify the number of Rights being exercised on the Rights Certificate, or if payment is not sufficient to pay the total purchase price for all of the shares of Common Stock that the Eligible Rights Holder indicated that the holder wished to purchase, such holder will be deemed to have exercised the maximum number of Rights that could be exercised for the amount of the payment received by Wells Fargo. If payment exceeds the total purchase price for all of the Rights shown on the Rights Certificate, payment will be applied, until depleted, to subscribe for shares of Common Stock in the following order:
 - (i) to subscribe for the number of shares of Common Stock, if any, that the Eligible Rights Holder indicated on the Rights Certificate that such holder wished to purchase through the Basic Subscription Right;
 - (ii) to subscribe for shares of Common Stock until the Basic Subscription Right has been fully exercised; and
 - (iii) to subscribe for additional shares of Common Stock pursuant to the Over-Subscription Right, but subject to any applicable pro-ration.
 - Any excess payment remaining after the foregoing allocation will be returned to the eligible Rights Holder as soon as practicable by mail, without deduction or interest.
- d. Wells Fargo shall accept any subscription if, prior to the Expiration Time, Wells Fargo has received (i) payment of the full Basic Subscription Price for the shares of Common Stock subscribed for and (ii) a properly completed and executed Notice of Guaranteed Delivery

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by facsimile (telecopy) or otherwise from a member firm of a registered national securities exchange or a member of the National Association of Securities Dealers, Inc., or a commercial bank or trust company having an office or correspondent in the United States, guaranteeing delivery of a properly completed and executed Rights Certificate; provided, however, that Wells Fargo shall not honor a Notice of Guaranteed Delivery unless a properly completed and executed Rights Certificate is received by Wells Fargo by 5:00 p.m. CDT on the third Nasdaq National Market trading day following the date of receipt by Wells Fargo of the Notice of Guaranteed Delivery.

e. The Subscription Price shall be paid in United States dollars, by (i) check or draft drawn on a United States bank, or a postal, telegraphic or express money order payable to Wells Fargo or (ii) by wire transfer of same day funds to an account maintained by Wells Fargo for the purpose of accepting subscriptions, in accordance with the following wire instructions:

Wells Fargo Bank, MN, N.A.
161 North Concord Exchange
South St. Paul, MN 55075
Attn: Corporate Actions, Rigel Pharmaceuticals, Inc. Rights Offering
ABA No. 091000019
Account No. 1067899
Account Name: "Rigel Pharmaceuticals, Inc. Subscription"

- f. Payment will be deemed to have been received by Wells Fargo only upon:
 - (i) clearance of any uncertified check;
 - (ii) receipt by Wells Fargo of any certified check or bank draft drawn upon a U.S. bank or of any postal, telegraphic or express money order;
 - (iii) receipt by Wells Fargo of collected funds transferred by wire transfer in Wells Fargo's account designated above; or
 - (iv) receipt of funds by Wells Fargo through an alternative payment method approved by the Company.
- g. Once an Eligible Rights Holder has exercised Rights, such exercise may not be revoked or rescinded.
- 6. **Subdivision of Rights.** Until 5:00 p.m. CDT on the fifth business day prior to the Expiration Date, if an Eligible Rights Holder exercises fewer than all of the Rights evidenced by the Eligible Rights Holder's Rights Certificate and requests in writing that Wells Fargo issue a Rights Certificate evidencing the unexercised Rights, Wells Fargo shall immediately issue to such holder a new Rights Certificate evidencing the unexercised Rights and deliver it to the Eligible Rights Holder at the address shown on such Rights Certificate.
- 7. **Defective Exercise of Rights Lost Subscription Certificates.** The Company shall have the absolute right to reject any defective exercise of Rights or to waive any defect in exercise. Unless requested to do so by the Company, Wells Fargo shall not be under any duty to give notification to holders of Rights Certificates of any defects or irregularities in subscriptions. Subscriptions will not be deemed to have been made until any such defects or irregularities have been cured or waived within such time as the Company shall determine. Wells Fargo shall, as soon as practicable, return to holders of the Rights Certificates with defects or irregularities that have not been cured or waived. Wells Fargo shall notify the Company as promptly as possible of any defects or irregularities in subscriptions. If any Rights Certificate is alleged to have been lost, stolen or destroyed, Wells Fargo shall follow the same procedures

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followed far lost stock certificates representing shares of Common Stock it uses in its capacity as transfer agent for the Common Stock.

- 8. **Receipt and Tracking of Completed Rights Certificates.** Wells Fargo will receive completed Rights Certificates, track participating stockholders, retain copies of the returned Rights Certificates and provide them to the Company upon expiration of the Rights Offering.
- 9. **Expiration of the Offering Period.** Unless extended by the Company, the Rights Offering will expire at 5:00 p.m. CDT on July 24, 2003. Only record stockholders who return their original, properly executed and completed Rights Certificates or properly executed and completed Notice of Guaranteed Delivery and the necessary purchase money, to Wells Fargo by that time will be eligible for participation in the Rights Offering.
- 10. **Payments Received.** It is understood and agreed that the purchase money, assets or property (the "Property") to be deposited with or received by Wells Fargo from the stockholders, in its capacity as subscription agent, constitute a special, segregated account, held solely for the benefit of the Company and participating stockholders as their interests may appear.
- 11. **Depository Trust Company and Guaranteed Delivery Period.** Wells Fargo will accept and receive funds through the Depository Trust Company for the participating beneficial stockholders, once the Guaranteed Delivery period expires. Pursuant to the Notice of Guaranteed Delivery provided to ADP, and non participating banks and brokers, the Guaranteed Delivery period expires at 5:00 p.m. CDT on the third Nasdaq National Market trading day after the Expiration Date; provided, however, that the Notice of Guaranteed Delivery must have been delivered by the Expiration Date.
- 12. Reporting of Subscriptions and Payments. During the period beginning on the fifth day after the mailing of the Rights Certificates to the Eligible Rights Holders and ending on the Expiration Date, Wells Fargo shall deliver daily to the Company a written report showing (i) (a) the number of Rights exercised on such day pursuant to the Basic Subscription Right, (b) the number of Rights exercised on such day pursuant to the Over-Subscription Right, (c) the aggregate number of Rights exercised through such date pursuant to the Basic Subscription Right and (d) the aggregate number of Rights exercised through such date pursuant to the Over-Subscription Right; and (ii) (a) the amount of funds received on such day in payment of the Subscription Price for shares of Common Stock purchased pursuant to exercises of the Basic Subscription Right on such day, (b) the amount of funds received on such day in payment of the Subscription Price for shares of Common Stock purchased pursuant to exercises of the Over-Subscription Right on such day, (c) the aggregate amount of funds transferred to the Company, on deposit or invested for the account of the Company from payment of the Subscription Price for shares of Common Stock purchased pursuant to exercises of the Basic Subscription Right through such date and (d) the aggregate amount of funds transferred to the Company, on deposit or invested for the account of the Company from payment of the Subscription Price for shares of Common Stock purchased pursuant to exercises of the Over-Subscription Right through such date. Wells Fargo shall also report in the same manner on the number of Rights subscribed through brokers, dealers, banks or other nominee holders. At or before 5:00 p.m. CDT on the first Nasdaq National Market trading day following the Expiration Date Wells Fargo shall certify in writing to the Company the cumulative total through the Expiration Date of all the information set forth in clauses (i) and (ii) above. At or before 10:00 a.m. CDT on the fifth Nasdaq National Market trading day following the Expiration Date, Wells Fargo will execute and deliver to the Company a certificate setting forth the number of Rights exercised pursuant to a Notice of Guaranteed Delivery and as to which Rights Certificates have been timely received. Wells Fargo shall also maintain and update a listing of holders who have fully or partially exercised their Rights and

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holders who have not exercised their Rights. Wells Fargo shall provide the Company or its designees with such information compiled by Wells Fargo pursuant to this Section 12 as any of them shall request.

- 13. **Final Issuance Instructions.** The Company, after reviewing the reports provided by Wells Fargo with respect to the exercise of Rights and the allocation of shares of Common Stock in connection with the Over-Subscription Right, will provide Wells Fargo with final issuance instructions (the "Final Issuance Instructions") detailing the number of shares of Common Stock for issuance to the participating stockholders. The Final Issuance Instructions must come in a form reasonably acceptable to Wells Fargo, and include the stockholders' registered names (based on the information provided by Wells Fargo), and the number of shares of Common Stock for issuance to each.
- 14. **Necessary Documents.** Prior to the issuance of any shares of Common Stock, the Company will provide Wells Fargo with copies of the Final Issuance Instructions, a Secretary's Certified Board Resolution approving the appointment of Wells Fargo as the subscription agent, and approving the issuance of the

shares of Common Stock, as well as a legal opinion addressing the issuance of the shares of Common Stock.

- 15. **Issuance of Common Stock.** Wells Fargo, as transfer agent and registrar for the shares of Common Stock, shall promptly issue and deliver to each Eligible Rights Holder exercising Rights a stock certificate evidencing the aggregate of the number of shares of Common Stock purchased by exercise of the Basic Subscription Right and, if applicable, the Over-Subscription Right for which the Subscription Price had been paid in full. If a lesser number of shares is allotted to a subscriber under the Over-Subscription Right than the subscriber has tendered payment for, Wells Fargo shall remit the difference to the subscriber without interest or deduction at the same time as certificates representing the securities allotted pursuant to the Over-Subscription Right are mailed.
- 16. **Issuance of Restricted Securities.** The Company is solely responsible for notifying Wells Fargo of the issuance of restricted shares and the restrictive legends required for any stock certificates issued to restricted stockholders.
- 17. **Final Disposition of Property.** Upon receipt of the Final Issuance Instructions, Wells Fargo will turn over to the Company the Property collected as payment from the participating stockholders and proceed with the issuance of the shares of Common Stock.
- 18. Advice of Counsel. Wells Fargo may, when Wells Fargo deems it desirable and after prior consultation with the Company, seek advice of Wells Fargo's own counsel in connection with Wells Fargo's services as subscription agent hereunder, and Wells Fargo shall be entitled in good faith to rely upon any such advice received in writing, and may provide a copy of any such written advice to the Company, unless providing such written advice could constitute a waiver of Wells Fargo's rights under the doctrine of attorney client privilege.
- 19. **Fees and Expenses.** For services rendered hereunder, the Company will pay or cause to be paid to Wells Fargo fees as set forth in Exhibit D attached hereto, which shall be payable upon Wells Fargo's invoice to the Company. All reasonable out-of-pocket costs, including but not limited to postage, will be reimbursed to Wells Fargo by the Company. The Company shall pay for any legal services rendered by its counsel but shall not be liable for the fees and expenses of any additional counsel retained by Wells Fargo unless the Company agrees, in advance, to reimburse Wells Fargo for such costs. The fees as set forth on Exhibit D in no way supercede other fee schedules currently agreed upon between the Company and Wells Fargo.

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20. **Authorized Company Representatives.** Each of the following is authorized to give Wells Fargo any further instructions in connection with Wells Fargo acting as subscription agent:

James H. Welch, Vice President, Chief Financial Officer and Secretary Dolly Vance, General Counsel and Vice President of Intellectual Property

- 21. **Reliance upon Certificates, etc.** Wells Fargo shall be protected in acting upon any certificate, statement, request, consent, agreement, or other instrument whatsoever furnished to Wells Fargo by an Authorized Representative of the Company, not only as to its due execution and validity and the effectiveness of its provisions, but also as to the truth and accuracy of any information therein contained, which Wells Fargo shall in good faith believe to be genuine or to have been signed or presented by a proper person or persons.
- 22. Indemnification. The Company will indemnify, protect and hold Wells Fargo harmless from any and all liability incurred by Wells Fargo, except any liability arising out of Wells Fargo's negligence or bad faith or intentional wrongdoing on its part, as a result of any act, omission, delay or refusal made by Wells Fargo in acting as subscription agent, in reliance upon any signature, endorsement, assignment, certificate, order, request, notice, instructions or other instrument or document believed by Wells Fargo in good faith to be valid, genuine and sufficient; and Wells Fargo shall not be liable to the Company for any matter in acting as subscription agent except in the event of Wells Fargo's own default, neglect, bad faith or intentional wrongdoing. Wells Fargo shall be under no obligation to institute or defend any action, suit, or legal proceeding in connection herewith or to take any other action likely to involve Wells Fargo in expense, unless first indemnified to Wells Fargo's reasonable satisfaction.
- 23. **Amendments, etc.** No provision of this Agreement may be changed, waived, discharged or terminated except by an instrument in writing signed by the party against which enforcement of the provision which is the subject of such change, waiver, discharge or termination is sought.
- 24. **Counterparts.** This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, and all of which together shall constitute one instrument.
- 25. Law. This Agreement shall be governed in all respects, including validity, interpretation and effect, by the laws of the State of Delaware.

[remainder of page intentionally left blank]

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RIGEL PHARMACEUTIO	CALS, INC.	
Ву		
Title		
Date		

Ву	•
John D. Baker Assistant Vice President	
Date	
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QuickLinks

WELLS FARGO BANK MINNESOTA, N.A.

Form of Subscription Agent Agreement Roles and Responsibilities of Rigel Pharmaceuticals, Inc. and Wells Fargo Bank Minnesota, N.A.