



SOPHIRIS BIO INC.
1258 PROSPECT STREET
LA JOLLA, CALIFORNIA 92037

VOTE BY INTERNET - www.proxyvote.com

Use the Internet to transmit your voting instructions and for electronic delivery of information up until 11:59 p.m. Eastern Time the day before the cut-off date or meeting date. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

ELECTRONIC DELIVERY OF FUTURE PROXY MATERIALS

If you would like to reduce the costs incurred by our company in mailing proxy materials, you can consent to receiving all future proxy statements, proxy cards and annual reports electronically via e-mail or the Internet. To sign up for electronic delivery, please follow the instructions above to vote using the Internet and, when prompted, indicate that you agree to receive or access proxy materials electronically in future years.

VOTE BY PHONE - 1-800-690-6903

Use any touch-tone telephone to transmit your voting instructions up until 11:59 p.m. Eastern Time the day before the cut-off date or meeting date. Have your proxy card in hand when you call and then follow the instructions.

VOTE BY MAIL

Mark, sign and date your proxy card and return it in the postage-paid envelope we have provided or return it to Vote Processing, c/o Broadridge, 51 Mercedes Way, Edgewood, NY 11717.

TO VOTE, MARK BLOCKS BELOW IN BLUE OR BLACK INK AS FOLLOWS:

E45160-P04422

KEEP THIS PORTION FOR YOUR RECORDS
 DETACH AND RETURN THIS PORTION ONLY

THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED.

SOPHIRIS BIO INC.

The Board of Directors recommends you vote FOR the following proposals:

1. Election of Directors

| Nominees: | For | Withhold |
|---------------------------------|--------------------------|--------------------------|
| 1a. Lars Ekman, M.D., Ph.D. | <input type="checkbox"/> | <input type="checkbox"/> |
| 1b. John (Jack) Geltosky, Ph.D. | <input type="checkbox"/> | <input type="checkbox"/> |
| 1c. Jim Heppell | <input type="checkbox"/> | <input type="checkbox"/> |
| 1d. Allison Hulme, Ph.D. | <input type="checkbox"/> | <input type="checkbox"/> |
| 1e. Gerald T. Proehl | <input type="checkbox"/> | <input type="checkbox"/> |
| 1f. Randall E. Woods | <input type="checkbox"/> | <input type="checkbox"/> |

2. Appointment of PricewaterhouseCoopers LLP as the independent registered public accounting firm for the fiscal year ending December 31, 2018.

For Against Abstain

NOTE: In their best judgment, the proxies are authorized to vote upon such other business as may properly come before the Annual General Meeting. **This proxy, when properly executed, will be voted as directed herein by the undersigned shareholder. If no direction is made, but the proxy is signed, this proxy will be voted FOR all nominees in Proposal 1 and FOR Proposal 2.**

Please sign exactly as your name(s) appear(s) hereon. When signing as attorney, executor, administrator, or other fiduciary, please give full title as such. Joint owners should each sign personally. All holders must sign. If a corporation or partnership, please sign in full corporate or partnership name by authorized officer.

Signature [PLEASE SIGN WITHIN BOX] Date

Signature (Joint Owners) Date

Important Notice Regarding the Availability of Proxy Materials for the Annual General Meeting:
The Notice, Proxy Statement and Form 10-K are available at www.proxyvote.com.

E45161-P04422

I/We being holder(s) of Sophiris Bio Inc. hereby appoint: Dr. Lars Ekman, or failing him, Randall E. Woods, or failing him, Peter T. Slover, or **Print the name of the person you are appointing if this person is someone other than the Chairman of the Meeting,** _____ as my/our proxyholder with full power of substitution and to attend, act and to vote for and on my/our behalf in accordance with the following direction (or if no directions have been given, as the proxyholder sees fit) and all other matters that may properly come before the Annual General Meeting of Shareholders of Sophiris Bio Inc. to be held at Cooley LLP, 4401 Eastgate Mall, San Diego, California 92121 on June 27, 2018 at 11:00 AM (Pacific Time) and at any adjournment or postponement thereof.

Form of Proxy - Annual General Meeting to be held on June 27, 2018

This Form of Proxy is solicited by and on behalf of Management.

Notes to proxy

- 1. Every holder has the right to appoint some other person or company of their choice, who need not be a holder, other than the persons designated in this form of proxy, to attend and act on their behalf at the meeting or any adjournment or postponement thereof. If you wish to appoint a person or company other than the persons whose names are printed herein, please insert the name of your chosen proxyholder in the space provided.**
2. If the securities are registered in the name of more than one owner (for example, joint ownership, trustees, executors, etc.), then all those registered should sign this proxy. If you are voting on behalf of a corporation or another individual you must sign this proxy with signing capacity stated, and you may be required to provide documentation evidencing your power to sign this proxy.
3. This proxy should be signed in the exact manner as the name(s) appear(s) on the proxy.
4. If this proxy is not dated, it will be deemed to bear the date which is 7 days after it was mailed by Management to the holder.
- 5. The securities represented by this proxy will be voted as directed by the holder, however, if such a direction is not made in respect of any matter and the management designees are appointed as proxy holders, this proxy will be voted as recommended by Management.**
6. The securities represented by this proxy will be voted or withheld from voting in accordance with the instructions of the holder, on any ballot that may be called for and, if the holder has specified a choice with respect to any matter to be acted on, the securities will be voted accordingly.
7. This proxy confers discretionary authority in respect of amendments or variations to matters identified in the Notice of Meeting or other matters that may properly come before the meeting or any adjournment or postponement thereof.
8. This proxy should be read in conjunction with the accompanying documentation provided by Management.