



8th Floor, 100 University Avenue
Toronto, Ontario M5J 2Y1
www.computershare.com

XBHQ 000001

SAM SAMPLE
123 SAMPLES STREET
SAMPLETOWN SS X9X X9X
CANADA

Security Class
COMMON SHARES

Holder Account Number
C9999999999 IND



Fold

Form of Proxy - Annual General and Special Meeting to be held on June 4, 2018 at 8:00 AM (Vancouver Time)

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, 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 (see reverse).
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 on which it is 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, this proxy will be voted as recommended by Management.**
6. The securities represented by this proxy will be voted in favour or withheld from voting or voted against each of the matters described herein, as applicable, 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.

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Proxies submitted must be received by 8:00 AM (Vancouver Time) on May 31, 2018.

VOTE USING THE TELEPHONE OR INTERNET 24 HOURS A DAY 7 DAYS A WEEK!



To Vote Using the Telephone

- Call the number listed BELOW from a touch tone telephone.

1-866-732-VOTE (8683) Toll Free



To Vote Using the Internet

- Go to the following web site:
www.investorvote.com
- **Smartphone?**
Scan the QR code to vote now.



If you vote by telephone or the Internet, DO NOT mail back this proxy.

Voting by mail may be the only method for securities held in the name of a corporation or securities being voted on behalf of another individual.

Voting by mail or by Internet are the only methods by which a holder may appoint a person as proxyholder other than the Management nominees named on the reverse of this proxy. Instead of mailing this proxy, you may choose one of the two voting methods outlined above to vote this proxy.

To vote by telephone or the Internet, you will need to provide your **CONTROL NUMBER** listed below.

CONTROL NUMBER 23456 78901 23456



Appointment of Proxyholder

I/We being holder(s) of Neovasc Inc. hereby appoint: Paul Geyer, Chairman, or failing him, Fred Colen, Chief Executive Officer, or failing him, Chris Clark, Chief Financial Officer,

OR

Print the name of the person you are appointing if this person is someone other than the Management Nominees listed herein.

[Empty box for appointing person name]

as my/our appointee to attend, act and to vote in accordance with the following direction (or if no directions have been given, as the appointee sees fit) and all other matters that may properly come before the Annual General and Special Meeting of securityholders of Neovasc Inc. to be held at 2600 – 595 Burrard Street, Vancouver, British Columbia, on June 4, 2018 at 8:00 AM (Vancouver Time) and at any adjournment or postponement thereof.

VOTING RECOMMENDATIONS ARE INDICATED BY HIGHLIGHTED TEXT OVER THE BOXES.

1. Election of Directors

Table with 6 columns: Director Name, For, Withhold, Director Name, For, Withhold, Director Name, For, Withhold. Includes names like Paul Geyer, Alexei Marko, Doug Janzen, Steven Rubin, Dr. Jane Hsiao, Dr. William O'Neill.

2. Appointment of Auditors

Appointment of Grant Thornton LLP as Auditors of the Company for the ensuing year and authorizing the Directors to fix their remuneration.

[For] [Withhold] checkboxes

3. Stock Option Plan

To consider, and if thought fit, to approve, with or without amendment, an ordinary resolution of shareholders to approve an amendment to, and unallocated options under, the Company's existing stock option plan.

[For] [Against] checkboxes

4. Approval of Share Consolidation

To consider and, if thought fit, to approve, with or without amendment, a special resolution approving the consolidation of the Company's common shares, the full text of which resolution is set out in the accompanying Management Information Circular under the heading "Approval of Common Share Consolidation".

[For] [Against] checkboxes

Authorized Signature(s) - This section must be completed for your instructions to be executed.

I/We authorize you to act in accordance with my/our instructions set out above. I/We hereby revoke any proxy previously given with respect to the Meeting. If no voting instructions are indicated above, this Proxy will be voted as recommended by Management.

Signature(s)

[Signature box]

Date

DD / MM / YY

Interim Financial Statements - Mark this box if you would like to receive Interim Financial Statements and accompanying Management's Discussion and Analysis by mail. []

Annual Financial Statements - Mark this box if you would NOT like to receive the Annual Financial Statements and accompanying Management's Discussion and Analysis by mail. []

If you are not mailing back your proxy, you may register online to receive the above financial report(s) by mail at www.computershare.com/maillinglist.



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XBHQ 000002

SAM SAMPLE
123 SAMPLES STREET
SAMPLETOWN SS X9X X9X
AUSTRALIA

Security Class
COMMON SHARES

Holder Account Number
C9999999999 IND



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6. The securities represented by this proxy will be voted in favour or withheld from voting or voted against each of the matters described herein, as applicable, 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.
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312-588-4290 Direct Dial



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[Empty box for appointing person name]

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Signature(s)

[Signature box]

Date

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