UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934 (Amendment No. 2)*

GlycoMimetics, Inc.

(Name of Issuer)

Common Stock, \$.001 par value

(Title of Class of Securities)

38000Q102

(CUSIP Number)

Stephanie Brecher New Enterprise Associates 1954 Greenspring Drive, Suite 600, Timonium, MD 21093 (410) 842-4000

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

February 6, 2024

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of $\S\S240.13d-1(e)$, 240.13d-1(f) or 240.13d-1(g), check the following box. \square

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

^{*} The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

| CUSIP N | lo. 38000Q102 | | | 13D | | Page 2 of 18 Pages | | |
|---------|---|-----------|--------------|--|---------------------------|--------------------|--|--|
| 1 | NAMES OF | REPORTII | NG PERSONS. | | | | | |
| 1. | New Enterprise Associates 10, Limited Partnership | | | | | | | |
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| 2. | CHECK THI | E APPROP | RIATE BOX II | F A MEMBER OF A GROUP (see instructions) | | (a) ☐ (b) ☐ | | |
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| 3. | SEC USE ONLY | | | | | | | |
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| 4. | SOURCE OF FUNDS (see instructions) | | | | | | | |
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| 5. | CHECK BOX | X IF DISC | LOSURE OF L | EGAL PROCEEDINGS IS REQUIRED PURSUA | NT TO ITEMS 2(d) or 2(e) | | | |
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| 6. | CITIZENSH | IP OR PLA | CE OF ORGA | NIZATION | | | | |
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| | | 7. | SOLE VOT | ING POWER | | | | |
| | | | 0 Shares | | | | | |
| | NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | | SHARED V | OTING POWER | | | | |
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| OWNED | | | SOLE DISF | POSITIVE POWER | | | | |
| | | | 0 Shares | | | | | |
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| 11. | 4,721,876 \$ | | JIVI BENEFIC | IALLI OWNED DI LACITALI ORTINGI LASC | 11 | | | |
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| 12. | CHECK BO | OX IF THE | E AGGREGATI | E AMOUNT IN ROW (11) EXCLUDES CERTAIN | SHARES (see instructions) | | | |
| | | | | | | | | |
| 13. | PERCENT | OF CLAS | S REPRESENT | TED BY AMOUNT IN ROW (11) | | | | |
| | 7.3% | | | | | | | |
| 14. | TYPE OF I | REPORTIN | IG PERSON (s | ee instructions) | | | | |
| | PN | | | | | | | |

| CUSIP N | o. 38000Q102 | | | 13D | | Page 3 of 18 Pages |
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| 1. | | | NG PERSONS. | p | | |
| 2. | CHECK THE | E APPROP | PRIATE BOX IF | A MEMBER OF A GROUP (see instructions) | | (a) |
| 3. | SEC USE ONLY | | | | | |
| 4. | SOURCE OF FUNDS (see instructions) AF | | | | | |
| 5. | CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) | | | | | |
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| OWNED REPO | BY EACH RTING N WITH | 9. | SOLE DISPO | OSITIVE POWER | | |
| | | 10. | SHARED DI 4,721,876 Sh | SPOSITIVE POWER | | |
| 11. | AGGREGA 4,721,876 S | | UNT BENEFICI | ALLY OWNED BY EACH REPORTING PERSON | N | |
| 12. | CHECK BO | OX IF THI | E AGGREGATE | AMOUNT IN ROW (11) EXCLUDES CERTAIN | SHARES (see instructions) | |
| 13. | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 7.3% | | | | | |

TYPE OF REPORTING PERSON (see instructions)

14.

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| CUSIP | No. 38000Q102 | 2. | | 13D | Page 4 of 18 Pages | | |
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| 1. | NAMES OF | REPORTI | NG PERSONS. | | | | |
| | New Enterp | rise Associ | ates 13, L.P. | | | | |
| 2. | CHECK TH | E APPROP | RIATE BOX IF A | A MEMBER OF A GROUP (see instructions) | (a) ☐ (b) ☐ | | |
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| 3. | SEC USE O | NLY | | | | | |
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| 5. | CHECK BO | X IF DISC | LOSURE OF LEG | GAL PROCEEDINGS IS REQUIRED PURSUAN | T TO ITEMS 2(d) or 2(e) | | |
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| 6. | CITIZENSH | IP OR PLA | CE OF ORGANI | ZATION | | | |
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| | 4,721,876 | Shares | | | | | |
| 12. | CHECK B | OX IF THE | E AGGREGATE A | AMOUNT IN ROW (11) EXCLUDES CERTAIN | SHARES (see instructions) | | |
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| 13. | PERCENT | OF CLAS | S REPRESENTEI | D BY AMOUNT IN ROW (11) | | | |
| | 7.3% | | | | | | |
| 14. | TYPE OF | REPORTIN | NG PERSON (see | instructions) | | | |
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| CUSIP | No. 38000Q10 | 2 | | 13D | Page 5 of 18 Pages | s | |
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| 1 | NAMES OF | DEDODTI | NG PERSONS | | | | |
| 1. | | | | | | | |
| | NEA Partners 13, L.P. | | | | | | |
| 2. | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) (b) (b) | | | | | | |
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| 3. | SEC USE O | NLY | | | | | |
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| 4. | | F FUNDS (| see instruction | 5) | | | |
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| 5. | CHECK BO | X IF DISC | LOSURE OF I | EGAL PROCEEDINGS IS REQUIRED PURSUAN | T TO ITEMS 2(d) or 2(e) | | |
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| 14. | TYPE OF | REPORTIN | NG PERSON (s | see instructions) | | | |
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| CUSIP No. 38000Q102 | | | | 13D | Page 6 of 18 Pages | |
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| 1. | NAMES OF | REPORTII | NG PERSONS. | | | |
| | NEA 13 GP, LTD | | | | | |
| 2. | CHECK TH | E APPROP | RIATE BOX II | F A MEMBER OF A GROUP (see instructions) | (a) | |
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| 3. | SEC USE ONLY | | | | | |
| 4. | SOURCE OI | F FUNDS (| see instructions | (3) | | |
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| 5. | CHECK BO | X IF DISC | LOSURE OF L | EGAL PROCEEDINGS IS REQUIRED PURSUAN | TT TO ITEMS 2(d) or 2(e) | |
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| 12. | CHECK B | OX IF THE | E AGGREGAT | E AMOUNT IN ROW (11) EXCLUDES CERTAIN | SHARES (see instructions) | |
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| 1. | NAMES OF | REPORTI | NG PERSONS. | | | | |
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| 14. | TYPE OF REPORTING PERSON (see instructions) IN | | | | | | |

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| 2. | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) (b) (b) | | | | | |
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| 14. | TYPE OF I | REPORTIN | NG PERSON (see instructions) | | | |

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| 1. | NAMES OF | KEPOKIII | NG PERSONS. | | | | | |
| | Scott D. San | dell | | | | | | |
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| 2. | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) | | | | | | | |
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Item 1. Security and Issuer.

This Amendment No. 2 ("Amendment No. 2") to Schedule 13D amends and supplements the Schedule 13D originally filed on January 23, 2014 and Amendment No. 1 filed on February 10, 2023, relating to the common stock, \$.001 par value per share (the "Common Stock") of GlycoMimetics, Inc. (the "Issuer") having its principal executive office at 9708 Medical Center Drive, Rockville, Maryland 20850.

Certain terms used but defined in this Amendment No. 2 have the meanings assigned thereto in the Schedule 13D (and Amendment No. 1 thereto). Except as specifically provided herein, this Amendment No. 2 does not modify any of the information previously reported on the Schedule 13D (and Amendment No. 1 thereto).

Item 2. Identity and Background.

This statement is being filed by:

- (a) New Enterprise Associates 10, Limited Partnership ("NEA 10");
- (b) NEA Partners 10, Limited Partnership ("NEA Partners 10"), which is the sole general partner of NEA 10;
- (c) New Enterprise Associates 13, L.P. ("NEA 13");
- (d) NEA Partners 13, L.P. ("NEA Partners 13"), which is the sole general partner of NEA 13;
- (e) NEA 13 GP, LTD ("NEA 13 LTD"), which is the sole general partner of NEA Partners 13; and
- (f) Forest Baskett ("Baskett") and Patrick J. Kerins ("Kerins") (collectively, the "NEA 13-Only Directors") and Scott D. Sandell ("Sandell") (collectively with the NEA 13-Only Directors, the "Directors"). The Directors are the directors of NEA 13 LTD. Sandell is also the individual general partner of NEA Partners 10 (the "Individual General Partner"). Anthony A. Florence, Jr. ("Florence") and Mohamad H. Makhzoumi ("Makhzoumi") are each members of the Executive Committee of NEA Management Company, LLC (the "Executive Committee").

The persons named in this Item 2 are referred to individually herein as a "Reporting Person" and collectively as the "Reporting Persons."

The address of the principal business office of NEA 10, NEA Partners 10, NEA 13, NEA Partners 13, NEA 13 LTD and Sandell is New Enterprise Associates, 1954 Greenspring Drive, Suite 600, Timonium, MD 21093. The address of the principal business office of Kerins is New Enterprise Associates, 5425 Wisconsin Avenue, Suite 800, Chevy Chase, MD 20815. The address of the principal business office of Baskett and Makhzoumi is New Enterprise Associates, 2855 Sand Hill Road, Menlo Park, California 94025. The address of the principal business office of Florence is New Enterprise Associates, 104 Fifth Avenue, 19th Floor, New York, NY 10011.

The principal business of NEA 10 is to invest in and assist growth-oriented businesses located principally in the United States. The principal business of NEA Partners 10 is to act as the sole general partner of NEA 10. The principal business of the Individual General Partner is to act as a general partner of NEA Partners 10 and a number of affiliated partnerships with similar businesses.

The principal business of NEA 13 is to invest in and assist growth-oriented businesses located principally in the United States. The principal business of NEA Partners 13 is to act as the sole general partner of NEA 13. The principal business of NEA 13 LTD is to act as the sole general partner of NEA Partners 13. The principal business of each of the Directors is to manage NEA 13, NEA Partners 13, NEA 13 LTD and a number of affiliated partnerships with similar businesses.

The principal business of each of Florence and Makhzoumi is to manage NEA 10, NEA 13 and a number of affiliated partnerships with similar businesses.

During the five years prior to the date hereof, none of the Reporting Persons has been convicted in a criminal proceeding or has been a party to a civil proceeding ending in a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

Each of NEA 10 and NEA Partners 10 is a limited partnership organized under the laws of the State of Delaware. The Individual General Partner is a United States citizen.

NEA 13 and NEA Partners 13 are exempt limited partnerships organized under the laws of the Cayman Islands. NEA 13 LTD is an exempted company organized under the laws of the Cayman Islands. Each of the Directors is a United States citizen.

Each of Florence and Makhzoumi is a United States citizen.

Item 4. Purpose of Transaction.

On February 6, 2024, NEA 13 and NEA 10 completed open market sales as part of a series of public sales that began on January 31, 2024 (the "Transactions"), whereby (1) NEA 13 sold in the aggregate 110,634 shares of the Issuer's Common Stock and (2) NEA 10 sold in the aggregate 135,020 shares of the Issuer's Common Stock. After the Transactions (1) NEA 13 holds 2,126,562 shares of the Issuer's Common Stock (the "NEA 13 Shares") and (2) NEA 10 holds 2,595,314 shares of the Issuer's Common Stock (the "NEA 10 Shares").

Depending on market conditions, their continuing evaluation of the business and prospects of the Issuer and other factors, NEA 10, NEA 13 and other Reporting Persons may dispose of or acquire additional shares of the Issuer. Except as set forth above, none of the Reporting Persons has any present plans which relate to or would result in:

- (a) The acquisition by any person of additional securities of the Issuer, or the disposition of securities of the Issuer;
- (b) An extraordinary corporate transaction, such as a merger, reorganization or liquidation, involving the Issuer or any of its subsidiaries;
- (c) A sale or transfer of a material amount of assets of the Issuer or any of its subsidiaries;
- (d) Any change in the present board of directors or management of the Issuer, including any plans or proposals to change the number or term of directors or to fill any existing vacancies on the board;
- (e) Any material change in the present capitalization or dividend policy of the Issuer;
- (f) Any other material change in the Issuer's business or corporate structure;
- (g) Changes in the Issuer's charter, bylaws or instruments corresponding thereto or other actions which may impede the acquisition of control of the Issuer by any person;
- (h) Causing a class of securities of the Issuer to be delisted from a national securities exchange or to cease to be authorized to be quoted in an inter-dealer quotation system of a registered national securities association;
- (i) A class of equity securities of the Issuer becoming eligible for termination of registration pursuant to Section 12(g)(4) of the Securities Exchange Act of 1934; or
- (j) Any action similar to any of those enumerated above.

Item 5. Interest in Securities of the Issuer.

(a) NEA 10 is the record owner of the NEA 10 Shares. As the sole general partner of NEA 10, NEA Partners 10 may be deemed to beneficially own the NEA 10 Shares. As the individual general partner of NEA Partners 10, the Individual General Partner also may be deemed to beneficially own the NEA 10 Shares. As an individual member of the Executive Committee, which committee has been delegated certain approval rights with respect to dispositions of the NEA 10 Shares by the Individual General Partner, each of Florence and Makhzoumi may also be deemed to own beneficially the NEA 10 Shares.

NEA 13 is the record owner of the NEA 13 Shares. As the sole general partner of NEA 13, NEA Partners 13 may be deemed to own beneficially the NEA 13 Shares. As the sole general partner of NEA Partners 13, NEA 13 LTD may be deemed to own beneficially the NEA 13 Shares. As the individual directors of NEA 13 LTD, each of the Directors may be deemed to own beneficially the NEA 13 Shares. As an individual member of the Executive Committee, which committee has been delegated certain approval rights with respect to dispositions of the NEA 13 Shares by the Directors, each of Florence and Makhzoumi may also be deemed to own beneficially the NEA 13 Shares.

By virtue of their relationship as affiliated entities, whose controlling entities have overlapping individual controlling persons, each of NEA 10, NEA Partners 10, NEA 13, NEA Partners 13 and NEA 13 LTD may be deemed to share the power to direct the disposition and vote of the NEA 10 Shares and the NEA 13 Shares.

Each Reporting Person disclaims beneficial ownership of the NEA 10 Shares and the NEA 13 Shares other than those shares which such person owns of record.

The percentage of outstanding Common Stock of the Issuer which may be deemed to be beneficially owned by each Reporting Person is set forth on Line 13 of such Reporting Person's cover sheet. Such percentage was calculated for each Reporting Person based on 64,393,294 shares of Common Stock reported to be outstanding as of November 1, 2023, on the Issuer's Form 10-Q filed with the Securities Exchange Commission on November 3, 2023.

- (b) Regarding the number of shares as to which such person has:
 - (i) sole power to vote or to direct the vote: See line 7 of cover sheets
 - (ii) shared power to vote or to direct the vote: See line 8 of cover sheets
 - (iii) sole power to dispose or to direct the disposition: See line 9 of cover sheets
 - (iv) shared power to dispose or to direct the disposition: See line 10 of cover sheets
- (c) Except as set forth in Item 4 above, none of the Reporting Persons has effected any transaction in the Common Stock during the last 60 days.
- (d) No other person is known to have the right to receive or the power to direct the receipt of dividends from, or any proceeds from the sale of, Shares beneficially owned by any of the Reporting Persons.
- (e) Not applicable.

Item 7. Material to Be Filed as Exhibits.

Exhibit 1 – Agreement regarding filing of joint Schedule 13D.

Exhibit 2 - Power of Attorney regarding filings under the Securities Exchange Act of 1934, as amended.

| CUSI | P No. 38 | 3000Q102 | 13D | Page 13 of 18 |
|---------|--------------|--|--|--|
| | | | <u>SIGNATURE</u> | |
| stateme | | reasonable inquiry and to the best of e, complete and correct. | f its knowledge and belief, each of the undersigned ce | rtifies that the information set forth in this |
| EXECU | UTED th | is 12 th day of February, 2024. | | |
| | | RISE ASSOCIATES 10, RTNERSHIP | | |
| By: | NEA Gener | PARTNERS 10, LIMITED PARTN ral Partner | IERSHIP | |
| | By: | * | | |
| | | Scott D. Sandell General Partner | | |
| NEA P. | ARTNEI | RS 10, LIMITED PARTNERSHIP | | |
| | By: | * | | |
| | | Scott D. Sandell General Partner | | |
| | * | | | |
| Scott D | D. Sandel | 1 | | |
| NEW F | ENTERP | RISE ASSOCIATES 13, L.P. | | |
| By: | NEA P | PARTNERS 13, L.P. | | |
| | By: | NEA 13 GP, LTD General Partner | | |
| | | By:* Scott D. Sandell | | |

NEA PARTNERS 13, L.P.

By:

NEA 13 GP, LTD

Scott D. Sandell Director

General Partner

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*/s/ Stephanie Brecher
Stephanie Brecher
As attorney-in-fact

This Amendment No. 2 to Schedule 13D was executed by Stephanie Brecher on behalf of the individuals listed above pursuant to a Power of Attorney a copy of which is attached as Exhibit 2.

EXHIBIT 1

AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, the undersigned hereby agree that only one statement containing the information required by Schedule 13D need be filed with respect to the ownership by each of the undersigned of shares of stock of GlycoMimetics, Inc.

EXECUTED this 12^{th} day of February, 2024.

NEW ENTERPRISE ASSOCIATES 10, LIMITED PARTNERSHIP

By: NEA PARTNERS 10, LIMITED PARTNERSHIP

General Partner

By: *

Scott D. Sandell General Partner

NEA PARTNERS 10, LIMITED PARTNERSHIP

By: *

Scott D. Sandell General Partner

* Scott D. Sandell

NEW ENTERPRISE ASSOCIATES 13, L.P.

By: NEA PARTNERS 13, L.P.

General Partner

By: NEA 13 GP, LTD

General Partner

By: *
Scott D. Sandell
Director

NEA PARTNERS 13, L.P.

By: NEA 13 GP, LTD General Partner

By: *
Scott D. Sandell
Director

This Agreement relating to Schedule 13D was executed by Stephanie Brecher on behalf of the individuals listed above pursuant to a Power of Attorney a

13D

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CUSIP No. 38000Q102

copy of which is attached hereto as Exhibit 2.

| CUSIP No. 3 | 8000O102 |
|-------------|----------|
|-------------|----------|

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EXHIBIT 2

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned hereby constitutes and appoints Louis S. Citron, Timothy Schaller, Sasha Keough and Stephanie Brecher, and each of them, with full power to act without the others, his or her true and lawful attorney-in-fact, with full power of substitution, to sign any and all instruments, certificates and documents that may be necessary, desirable or appropriate to be executed on behalf of himself as an individual or in his or her capacity as a direct or indirect general partner, director, officer or manager of any partnership, corporation or limited liability company, pursuant to section 13 or 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and any and all regulations promulgated thereunder, and to file the same, with all exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission, and with any other entity when and if such is mandated by the Exchange Act or by the Financial Industry Regulatory Authority, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary, desirable or appropriate, fully to all intents and purposes as he or she might or could do in person, thereby ratifying and confirming all that said attorney-in-fact, or his or her substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the 13th day of March, 2017.

| /s/ M. James Barrett M. James Barrett |
|---|
| /s/ Peter J. Barris Peter J. Barris |
| /s/ Forest Baskett Forest Baskett |
| /s/ Ali Behbahani Ali Behbahani |
| /s/ Colin Bryant Colin Bryant |
| /s/ Carmen Chang Carmen Chang |
| /s/ Anthony A. Florence, Jr. Anthony A. Florence, Jr. |
| /s/ Carol G. Gallagher Carol G. Gallagher |
| /s/ Dayna Grayson Dayna Grayson |
| /s/ Patrick J. Kerins Patrick J. Kerins |
| /s/ P. Justin Klein P. Justin Klein |

| /s/ Vanessa Larco Vanessa Larco |
|--|
| /s/ Joshua Makower Joshua Makower |
| /s/ Mohamad H. Makhzoumi Mohamad H. Makhzoumi |
| /s/ Edward T. Mathers Edward T. Mathers |
| /s/ David M. Mott David M. Mott |
| /s/ Sara M. Nayeem Sara M. Nayeem |
| /s/ Jason R. Nunn Jason R. Nunn |
| /s/ Gregory Papadopoulos Gregory Papadopoulos |
| /s/ Chetan Puttagunta Chetan Puttagunta |
| /s/ Jon Sakoda Jon Sakoda |
| /s/ Scott D. Sandell Scott D. Sandell |
| /s/ A. Brooke Seawell A. Brooke Seawell |
| /s/ Peter W. Sonsini Peter W. Sonsini |
| /s/ Melissa Taunton Melissa Taunton |
| /s/ Frank M. Torti Frank M. Torti |
| /s/ Ravi Viswanathan Ravi Viswanathan |
| /s/ Paul E. Walker Paul E. Walker |
| /s/ Rick Yang |