

**ZYNERBA PHARMACEUTICALS, INC.
COMPENSATION COMMITTEE CHARTER**

Effective March 5, 2019

I. PURPOSE

The Compensation Committee (the “Committee”) of the Board of Directors (the “Board”) of Zynerva Pharmaceuticals, Inc., Inc. (the “Company”) has the responsibility and authority to review the performance and development of the Company’s management in achieving corporate goals and objectives and to assure that the Company’s executive officers (including the chief executive officer, the “CEO”) are compensated effectively in a manner consistent with the strategy of the Company, competitive practice, sound corporate governance principles and stockholder interests. The Committee shall oversee, review and administer all compensation, equity and employee benefit plans and programs.

II. COMPOSITION

The Committee shall be composed of three or more directors, each of whom shall be an “independent director” as required by the rules and requirements of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), any rules and regulations promulgated thereunder by the Securities and Exchange Commission and the listing rules of The NASDAQ Global Stock Market LLC (“NASDAQ”). For purposes of meeting the requirements of Section 162(m) of the Internal Revenue Code of 1986, as amended (the “Code”), or any successor Code section, the Committee, or a subcommittee (which shall consist of at least two directors) approving the performance goals to which certain of the executive compensation is tied in making such performance-based awards, shall consist solely of “outside” directors, as defined in Treasury Regulation 1.162-27(e)(3) promulgated under the Code. Moreover, for the purpose of Rule 16b-3 promulgated under the Exchange Act, the Committee, or any subcommittee (which shall consist of at least two directors), approving grants and awards of Company securities (each of which shall be deemed to include, for purposes of this sentence, “phantom” securities), shall consist solely of “non-employee directors,” as defined in Rule 16b-3(b)(3)(i) under the Exchange Act. Should any member cease to satisfy the independence requirements, such member shall immediately resign his or her membership on the Committee without request, notice or other action by the Board or any other person. The Board, in consultation with the Nominating and Corporate Governance Committee, shall make the determination on the independence of each member.

Each member of the Committee shall be recommended by the Nominating and Corporate Governance Committee and appointed annually by the Board. Any member of the Committee may be removed or replaced by the Board at any time. Any vacancy occurring in the Committee shall be filled by the Board. Unless a chair of the Committee (the “Chair”) is elected by the full Board, the members of the Committee may designate a Chair by majority vote of the full Committee. The Chair (or in his or her absence, a member designated by the Chair) shall preside at all meetings of the Committee and set the agenda for each Committee meeting. A Secretary of the Committee may be appointed by the Chair of the Committee.

III. MEETINGS

The Committee shall meet as often as it determines is necessary to carry out its responsibilities but in no event less than annually. Meetings may be scheduled as needed and may be called by the Chair of the Committee or, if there is no such chair, by two members of the Committee. The Committee shall have the authority to establish its own rules and procedures for notice and conduct of its meetings so long as they are not inconsistent with the provisions of the Company's Amended and Restated Bylaws (amended or restated from time to time, the "Bylaws") that are applicable to a committee of the Board. Except as otherwise provided by statute, a majority of the members shall represent a quorum of the Committee for the transaction of business at any meeting. Formal action to be taken by the Committee shall be by unanimous written consent or by the affirmative vote of at least a majority of the members present (in person or by telephone conference call) at a meeting at which a quorum is present. The Committee shall maintain written minutes of its meetings, which minutes will be filed with the minutes of the meetings of the Board. A summary of all formal action taken by the Committee (or any subcommittee thereof) shall be reported at the next meeting of the Board following such action.

The Committee may, in its discretion, invite other directors of the Company, members of the Company's management or any other person, including, without limitation, outside counsel or consultants, whose presence the Committee believes to be desirable and appropriate to attend and observe meetings of the Committee. The Committee may exclude from its meetings any person it deems appropriate. No person may be present during any discussions and deliberations of the Committee regarding the compensation of such person, including the CEO.

IV. RESPONSIBILITIES AND DUTIES

The Committee shall have the following authority and responsibilities:

Determination of Compensation and Benefits

1. Review and approve annually the corporate goals and objectives applicable to the compensation of the CEO, evaluate at least annually the CEO's performance in light of those goals and objectives, and determine and approve the CEO's compensation level based on this evaluation.
2. Review annually and approve the corporate goals and objectives relevant to non-CEO executive compensation, evaluate performance in light of those goals and set the compensation for the Company's other executive officers.
3. Review annually and approve the Company's compensation strategy to ensure that it promotes stockholder interests and supports the Company's strategic and tactical objectives, and that it provides appropriate rewards and incentives for management and employees of the Company, including review of compensation-related risk management.

4. If deemed advisable by the Board or the Committee, determine stock ownership guidelines for the CEO and other executive officers and monitor compliance with such guidelines.
5. Review and approve the terms of any binding offer letters, employment agreements, termination agreements or arrangements, change-in-control agreements, indemnification agreements and other material agreements executed by the Company with an executive officer of the Company other than the CEO.
6. Review and recommend to the Board the terms of any binding offer letters, employment agreements, termination agreements or arrangements, change-in-control agreements, indemnification agreements and other material agreements executed by the Company with the CEO.
7. Review and approve any new compensation plan or any material change to an existing compensation plan, make recommendations to the Board with respect to the Company's incentive compensation plans and equity-based plans subject to stockholder approval (if and as needed) and oversee the activities of the individuals and committees in charge of administering the Company's compensation plans.
8. Administer the Company's equity compensation plan and benefits plans for any equity or cash compensation arrangements that are adopted by the Company from time to time, with such authority and powers as are set forth in the respective instruments establishing such arrangements, including establishing performance metrics, determining bonus payouts and granting equity awards to employees and executive officers.
9. Oversee and periodically review the operation of all the Company's employee benefit plans.
10. Review and recommend to the Board the appropriate structure and amount of compensation for the Board members, including all forms of cash compensation paid to members of the Board and the grant of all forms of equity compensation provided to members of the Board.

Regulatory Compliance

1. Review the "Compensation Discussion and Analysis" (the "CD&A") disclosure prepared pursuant to the requirements of Item 402(b) of Regulation S-K (or any successor disclosure item).
2. Prepare the Compensation Committee Report based on the review of the CD&A and recommend to the Board whether the CD&A disclosure should be included in the Company's annual report on Form 10-K, proxy statement, information statement or similar document.
3. In consultation with management, oversee regulatory compliance with respect to compensation matters, including overseeing the Company's policies on structuring compensation programs to preserve tax deductibility, and, as and when required, establishing

performance goals and verifying that performance goals have been attained for purposes of Section 162(m) of the Code.

4. Oversee the Company's compliance with the Securities and Exchange Commission's rules and regulations regarding stockholder approval of certain executive compensation matters, including advisory votes on executive compensation and the frequency of such votes, and the requirements under the listing rules of NASDAQ that, with limited exceptions, stockholders approve the equity compensation plans.
5. Perform any other activities that may be required by applicable laws, regulations or rules to be performed by a company's "compensation committee" or any other activities consistent with this Charter, the Bylaws and governing law as the Committee or the Board deems appropriate.

Committee Performance Evaluation, Risk Oversight and Succession Planning

1. Conduct and present to the Board on an annual basis a performance evaluation of the Committee's performance of its duties under this Charter. The performance evaluation shall be conducted in such a manner as the Committee deems appropriate. Any member of the Committee may present the evaluation to the Board either orally or in writing.
2. Regularly report to the Board on the Committee's activities, recommendations and conclusions.
3. At least annually, review and reassess the adequacy of this Charter and recommend any proposed changes to the Board for approval.
4. Review plans for the development, retention and succession of executive officers of the Company.
5. Oversee risks and exposures associated with executive compensation plans and arrangements.

V. RESOURCES; ACCESS TO RECORDS

The Committee shall have the resources and authority necessary to discharge its duties and responsibilities. In carrying out its duties and responsibilities, the Committee shall have full access to any relevant records, facilities and employees of the Company and may retain experts and outside consultants to advise the Committee. The Committee shall also have authority, in its sole discretion, to retain or obtain advice and assistance from internal or external legal, accounting, compensation or other advisors or consultants. The Committee shall be directly responsible for the appointment, compensation and oversight of the work of any compensation consultant, legal counsel and other advisor retained by the Committee. The Committee shall not retain or obtain advice from any such expert, outside consultant, external legal, accounting, compensation or other advisor without first taking into consideration the factors relevant to such advisor's independence specified in NASDAQ Listing Rule 5605(d)(3) and considering and addressing any conflicts of interest between the Company and such advisor, which would require disclosure pursuant to Item 407(e)(3)(iv) of Regulation S-K (or

any successor disclosure item). The Committee may also request that any officer or other employee of the Company, the Company's counsel or any other person meet with any members of, or consultants to, the Committee. The fees, expenses or compensation owed any person retained by the Committee and any ordinary administrative expenses of the Committee incurred in carrying out its duties and responsibilities shall be borne by the Company. The Company must provide appropriate funding, as determined by the Committee, for payment of reasonable compensation to a compensation consultant, legal counsel or other advisor retained by the Committee.

Any communications between the Committee and legal counsel in the course of obtaining legal advice will be considered privileged communications of the Company and the Committee will take all necessary steps to preserve the privileged nature of those communications.

VI. DELEGATION OF DUTIES

The Committee shall be entitled to form and delegate any or all of its duties or responsibilities to a subcommittee of the Committee, to the extent consistent with the Company's Sixth Amended and Restated Certificate of Incorporation (as amended or restated from time to time), Bylaws, and applicable laws and rules of markets in which the Company's securities then trade. Any actions of a subcommittee shall be presented to the full Committee at its next scheduled meeting.