

**ZYNERBA PHARMACEUTICALS, INC.
NOMINATING AND CORPORATE GOVERNANCE
COMMITTEE CHARTER**

Effective March 3, 2020

I. PURPOSE

The Nominating and Corporate Governance Committee (the “Committee”) of the Board of Directors (the “Board”) of Zynerva Pharmaceuticals, Inc. (the “Company”) has the responsibility and authority to assist the Board by identifying individuals qualified to become Board members, recommend a slate of nominees to be proposed by the Board to stockholders for election to the Board, develop and recommend corporate governance principles and guidelines of the Company and to monitor compliance therewith, and recommend directors to serve on the committees of the Board.

II. COMPOSITION

The Committee shall be composed of three or more directors, each of whom will be an “independent director” as required by the rules and requirements of the Securities Exchange Act of 1934, as amended, any rules and regulations promulgated thereunder by the Securities and Exchange Commission and the listing rules of The NASDAQ Global Stock Market LLC (“NASDAQ”). The Board, in consultation with the Committee, shall make the determination on the independence of each member. 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.

Each member of the Committee shall be 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, set the agenda for each Committee meeting and perform such other activities as from time to time are requested by the other Committee members or as circumstances dictate. 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 (as 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.

IV. RESPONSIBILITIES AND DUTIES

The Committee shall have the following authority and responsibilities:

Director Matters

1. Determine the qualifications, qualities, skills, and other expertise required to be a director and develop, and recommend to the Board for its approval, criteria to be considered in selecting nominees for director.
2. Identify individuals, including stockholder nominees, qualified to become Board members consistent with criteria approved by the Board. The Committee will strive to ensure constituency diversity by including not only those of diverse age, race, and gender, but also geographic knowledge, industry experience, board tenure, and culture.
3. Conduct, subject to applicable law, any and all inquiries into the background and qualifications of any candidate for the Board and such candidate's compliance with independence and other qualification requirements established by the Committee.
4. Recommend for the Board's approval the slate of nominees to be proposed by the Board to stockholders for election to the Board at annual meetings and recommend to the Board, individuals to fill vacancies occurring between annual meetings of stockholders. In the case of a director nominee to fill a Board vacancy created by an increase in the size of the Board, if applicable, the Committee will also make a recommendation to the Board as to the class of directors in which the individual should serve.
5. Review, develop and recommend to the Board policies for considering director nominees for election, including director nominees recommended by the stockholders and procedures for submission by stockholders of such recommendations.
6. Consider and make recommendations to the Board concerning the appropriate size, function and needs of the Board and its committees, including the separation of the chairperson and chief executive officer roles and/or appointment of a lead independent director of the Board, either permanently or for specific purposes.

7. Review and recommend to the Board director independence determinations made with respect to continuing and prospective directors.
8. Recommend directors to serve on the committees of the Board and recommend individuals to fill vacancies on any such committee.
9. Review and recommend director orientation and continuing education programs for members of the Board.
10. Consider and recommend, where appropriate, the removal of a director from a committee or from the Board with or without cause, in accordance with the applicable provisions of the Company's Sixth Amended and Restated Certificate of Incorporation (as amended or restated from time to time, the "Certificate of Incorporation") and Bylaws.

Corporate Governance Guidelines

1. Develop, recommend, oversee the implementation of and monitor compliance with, the Company's corporate governance principles and guidelines; periodically review and recommend any necessary or appropriate changes to the Company's corporate governance guidelines.
2. Review the adequacy of the Certificate of Incorporation and Bylaws of the Company and recommend to the Board, as conditions dictate, amendments for consideration by the stockholders.
3. Consider any corporate governance issues that may arise from time to time, and develop appropriate recommendations for the Board.

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. Lead the Board in an annual evaluation to, among other reasons, determine whether the Board is functioning effectively and in compliance with the corporate governance principles and guidelines.
5. Review plans for the development, retention and succession of directors of the Company.
6. Consider and implement policies with respect to risk oversight, assessment and management of risks associated with the independence of the Board.

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 any search firm, experts and outside consultants to advise the Committee or assist with the identification of potential director nominees. The Committee shall also have authority to obtain advice and assistance from internal or external legal, accounting or other advisors. The Committee shall have sole authority to engage, terminate and determine the compensation and terms of engagement of any search firm, experts, outside consultants, external legal, accounting or other advisors. 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.

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 Certificate of Incorporation, 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.