

ORCHARD THERAPEUTICS PLC

Science & Technology Committee Charter

I. General Statement of Purpose

The Science & Technology Committee of the Board of Directors (the “S&T Committee”) of Orchard Therapeutics plc (the “Company”) on behalf of the Board of Directors (the “Board”) is responsible for, inter alia, reviewing and overseeing the Company’s research and development pipeline, reviewing and advising on the long-term strategic goals and objectives and the quality and direction of the Company's research and development programs, monitoring and evaluating research and development trends and emerging technologies that may be beneficial for maintaining and building the Company's technological strength.

II. S&T Committee Composition

The number of individuals serving on the S&T Committee shall be fixed by the Board from time to time but shall consist of no fewer than three members, each of whom shall satisfy the independence standards established pursuant to Rule 5605(a)(2) of the Listing Rules of the Nasdaq Stock Market LLC subject to any applicable exceptions contained in the Nasdaq Stock Market Rules..

The members of the S&T Committee shall be appointed annually by the Board and may be replaced or removed by the Board at any time with or without cause. Resignation or removal of the Director from the Board, for whatever reason, shall automatically constitute resignation or removal, as applicable, from the S&T Committee. Vacancies occurring, for whatever reason, may be filled by the Board. The Board shall designate one member of the S&T Committee to serve as Chair of the S&T Committee.

III. Meetings

The S&T Committee shall meet as often as it determines is appropriate to carry out its responsibilities. The S&T Committee may meet in person or by conference telephone or other communications equipment by means of which all persons participating in the meeting can hear each other, with any additional meetings as deemed necessary or appropriate by the S&T Committee. A majority of the members of the S&T Committee shall constitute a quorum for purposes of holding a meeting and the S&T Committee may act by a vote of a majority of members present at such meeting. In lieu of a meeting, the S&T Committee may act by unanimous written consent.

IV. S&T Committee Activities

In the discharge of its responsibilities, the S&T Committee shall:

- a. Review, evaluate, and advise the Board and management regarding the Company's long-term strategic goals and objectives
- b. Regularly review the Company's research and development pipeline.
- c. Review, evaluate, and advise the Board on the quality and direction of the Company's research and development programs
- d. Monitor and evaluate trends in research and development, and recommend to the Board and management emerging technologies for building the Company's technological strength.
- e. Recommend approaches to acquiring and maintaining technology positions (including but not limited to contracts, grants, collaborative efforts, alliances, and capital); advise the Board and management on the scientific aspects of business development transactions.
- f. Assist the Board with its oversight responsibility for enterprise risk management in areas affecting the Company's research and development.
- g. Review such other topics as delegated to the Committee from time to time by the Board.

V. General

- The S&T Committee may establish and delegate authority to subcommittees consisting of one or more of its members, when the S&T Committee deems it appropriate to do so in order to carry out its responsibilities.
- The S&T Committee shall make regular reports to the Board concerning areas of the S&T Committee's responsibility.

- In carrying out its responsibilities, the S&T Committee shall be entitled to rely upon advice and information that it receives in its discussions and communications with management and such experts, advisors and professionals with whom the S&T Committee may consult. The S&T Committee shall have the authority to request that any officer or employee of the Company, the Company's outside legal counsel, the Company's independent auditor or any other professional retained by the Company to render advice to the Company attend a meeting of the S&T Committee or meet with any members of or advisors to the S&T Committee.
- The S&T Committee may perform such other functions as may be requested by the Board from time to time.
- The S&T Committee shall perform all its duties on the basis of the considerations required to be taken into account by the rules of any stock exchange on which the Company's ADSs are listed, all applicable codes of practice and laws and the S&T Committee's view of good practice at the relevant time. In addition, while carrying out its duties, the S&T Committee shall have due regard to their duties as directors under the Companies Act 2006 and, where appropriate, the UK Corporate Governance Code.

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Adopted: 3 December 2019