报告题目：Modeling brain development and disease in stem cell-derived 3D culture

主办单位：同济大学生命科学与技术学院 & “细胞干性与命运编辑”前沿科学中心

报 告 人：Jürgen Knoblich, Ph.D, Professor

Director, Institute of Molecular Biotechnology

of the Austrian Academy of Sciences

主 持 人：高绍荣 教授

时　　间：2019 年 11 月 11 日，13:30-14:30

地　　点：逸夫楼二楼报告厅

报告人简介：

Jürgen Knoblich was the Deputy Director of Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA) from 2004 to 2018, and was appointed as the Scientific Director since 2018. He pioneers in asymmetric division of neural stem cells and brain organoid research, and has published more than 100 research articles in high impact journals. Because of his great contribution in life science, he has received many scientific awards, and was selected as EMBO member since 2002 and EMBO Council member since 2014, and was selected as member of Academia Europaea since 2012 and member of Austrian Academy of Sciences since 2013.

代表论文

1. Homem C C, Steinmann V, Burkard T R, Jais A, Esterbauer H and **Knoblich J A**. Ecdysone and mediator change energy metabolism to terminate proliferation in Drosophila neural stem cells. *Cell*, (2014) 158: 874-888.
2. Eroglu E, Burkard T R, Jiang Y, Saini N, Homem C C, Reichert H and **Knoblich J A**. SWI/SNF Complex Prevents Lineage Reversion and Induces Temporal Patterning in Neural Stem Cells. *Cell*, (2014) 156: 1259-1273.
3. Lancaster M A, Renner M, Martin C A, Wenzel D, Bicknell L S, Hurles M E, Homfray T, Penninger J M, Jackson A P and **Knoblich J A**. Cerebral organoids model human brain development and microcephaly. *Nature*, (2013) 501: 373-379.
4. Mummery-Widmer J L, Yamazaki M, Stoeger T, Novatchkova M, Bhalerao S, Chen D, Dietzl G, Dickson B J, and **Knoblich J A**. Genome-wide analysis of Notch signalling in Drosophila by transgenic RNAi, *Nature*, (2009) 458: 987-992.
5. Schwamborn J C, Berezikov E and **Knoblich J A**. The TRIM-NHL Protein TRIM32 Activates MicroRNAs and Prevents Self-Renewal in Mouse Neural Progenitors, *Cell*, (2009) 136: 913-925.
6. Wirtz-Peitz F, Nishimura T and **Knoblich J A**. Linking cell cycle to asymmetric division: Aurora-A phosphorylates the Par complex to regulate Numb localization, *Cell*, (2008) 135: 161-173.
7. Neumüller R A, Betschinger J, Fischer A, Bushati N, Poernbacher I, Mechtler K, Stephen M, Cohen S M and **Knoblich J A**. Mei-P26 regulates micro RNAs and cell growth in the Drosophila ovarian stem cell lineage, *Nature*, (2008) 454: 241-245.
8. Betschinger J, Mechtler K and **Knoblich J A**. Asymmetric segregation of the tumor suppressor brat regulates self-renewal in Drosophila neural stem cells. *Cell*, (2006) 124: 1241-1253.