

## PERSONAL DATA

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Name Jürgen A. Knoblich  
Date and Place of Birth: October 24, 1963 in Memmingen, Germany  
Nationality: German  
Present Address: Institute of Molecular Biotechnology  
of the Austrian Academy of Sciences (IMBA)  
Dr. Bohr Gasse 3  
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website: [www.imba.oeaw.ac.at/research/juergen-knoblich/](http://www.imba.oeaw.ac.at/research/juergen-knoblich/)

## PROFESSIONAL EXPERIENCE

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07/2018-current **Scientific Director (interim)**  
Institute of Molecular Biotechnology  
of the Austrian Academy of Sciences (IMBA), Vienna  
06/2016-current **Adjunct Professor**  
Medical University of Vienna  
01/2005–current **Deputy Director**  
Institute of Molecular Biotechnology  
of the Austrian Academy of Sciences (IMBA), Vienna  
01/2004-current **Senior Scientist**  
Institute of Molecular Biotechnology  
of the Austrian Academy of Sciences (IMBA), Vienna  
09/1997-01/2004 **Group Leader**  
Institute of Molecular Pathology (I.M.P.), Vienna  
07/1994-09/1997 **Post-Doctoral Position**  
University of California, San Francisco  
Laboratory of Drs. Lily and Yuh Nung Jan

## EDUCATION

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10/90-06/94 **Ph.D. Thesis:**  
Friedrich Miescher Laboratorium  
der Max Planck Gesellschaft, Tübingen  
Laboratory of Dr. Christian Lehner  
*Genetic Analysis of Cyclin Proteins During Drosophila  
Embryonic Development*  
7/89-9/90 **Diploma Thesis:**  
Max Planck Institute for Developmental Biology, Tübingen  
Dept. of Prof. Dr. Alfred Gierer  
*Identification of a Novel Member of the Immunoglobulin Protein  
Superfamily Expressed in the CNS of Drosophila melanogaster*

- 10/83-7/89            **Program in Biochemistry**  
University of Tübingen
- 10/86-10/87        **University College London**  
Laboratory Courses in Molecular Biology and Biochemistry

## RESEARCH AWARDS

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- 2016    **Advanced Research Grant**  
European Research Council (ERC)
- 2015    **Ernst Klenk Lecture**  
University of Cologne
- 2015    **Sir Hans Krebs Medal**  
Federation of European Biochemical Societies (FEBS)
- 2012    **Erwin Schroedinger Prize**  
Austrian Academy of Sciences (ÖAW)
- 2010    **Advanced Research Grant**  
European Research Council (ERC)
- 2010    **Karl Friedrich Bonhoeffer Lecture**  
Max Planck Institute for Bio-physical Chemistry, Goettingen
- 2009    **Wittgenstein Prize**  
Austrian Science Fund (FWF)
- 2003    **Early Career Award**  
European Life Scientist Organization (ELSO)
- 2001    **Young Investigator Award**  
European Molecular Biology Organisation (EMBO)
- 2001    **Anniversary Award**  
Federation of the European Biochemical Societies (FEBS)

## FELLOWSHIPS

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- 1994    **Postdoctoral Fellowship (07/94-07/96)**  
European Molecular Biology Organisation (EMBO)
- 1996    **Postdoctoral Fellowship (07/96 – 09/97)**  
Howard Hughes Medical Institute

## MEMBERSHIPS

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2014	<b>EMBO council</b> , elected member
2013	<b>Austrian Academy of Sciences</b> , elected member
2012	<b>Academia Europaea</b> , elected member
2002	<b>EMBO (European Molecular Biology Organisation)</b> , elected member
2002	<b>ISSCR (International Society for Stem Cell Research)</b> , Member

## EDITORIAL AND REVIEW BOARDS

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2016 - current	Journal of Cell Biology, editorial board member
2014-current	European Research Council (ERC), Advanced Grant Panel LS3, Panel Chair
2013-current	Howard Hughes Medical Institute (HHMI), Neuroscience review panel member
2010 - 2013	EMBO fellowship committee, Panel Chair
2009-current	Current Opinion in Cell Biology, editorial board member
2008 – 2013	European Research Council (ERC), Advanced Grant Panel LS3, Panel member
2008 – 2011	Cancer Stem Cell Network, Deutsche Krebshilfe e.V. (German Cancer Aid), Scientific Advisory Board member
2005 – 2010	EMBO fellowship committee, elected member
2004-current	European Journal of Cell Biology, editorial board member
2002-current	Current Biology, editorial board member

## TEN MOST RELEVANT PUBLICATIONS

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Betschinger, J., Mechtler, K. and Knoblich, J.A. (2003). The Par complex directs asymmetric cell division by phosphorylating the cytoskeletal protein Lgl. **Nature**, 422, 326-330.

Emery, G., Hutterer, A., Berdnik, D., Mayer, B., Wirtz-Peitz, F., Gonzalez Gaitan, M., and Knoblich, J. A. (2005). Asymmetric rab11 endosomes regulate Delta recycling and specify cell fate in the *Drosophila* nervous system. **Cell** 122, 763-773.

Betschinger, J., Mechtler, K., and Knoblich, J. A. (2006). Asymmetric segregation of the tumor suppressor brat regulates self-renewal in *Drosophila* neural stem cells. **Cell** 124, 1241-1253.

Neumüller, R.A., Betschinger, J., Fischer, A., Bushati, N., Poernbacher, I., Mechtler, K., Stephen M. Cohen, S.M. and Knoblich, J.A. (2008). Mei-P26 regulates micro RNAs and cell growth in the *Drosophila* ovarian stem cell lineage, **Nature**, 454, 241-245.

Wirtz-Peitz, F., Nishimura, T., and Knoblich, J.A. (2008). Linking cell cycle to asymmetric division: Aurora-A phosphorylates the Par complex to regulate Numb localization, **Cell**, 135, 161-173.

Schwamborn, J.C. Berezikov, E., and Knoblich, J.A. (2009). The Brat homolog TRIM32 Prevents Self-renewal in Neural Progenitors by Degrading c-Myc and Activating Micro-RNAs, **Cell**, 136, 913-925.

Mummery-Widmer, J.L., Yamazaki, M., Stoeger, T., Novatchkova, M., Chen, D., Dietzl, G., Dickson, B.J., and Knoblich, J.A. (2009) Genome-wide analysis of *Drosophila* external sensory organ development by transgenic RNAi, **Nature**, 458, 987-992.

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. (2013). Cerebral organoids model human brain development and microcephaly. **Nature** 501, 373-379.

Eroglu, E., Burkard, T. R., Jiang, Y., Saini, N., Homem, C. C., Reichert, H., and Knoblich, J. A. (2014). SWI/SNF Complex Prevents Lineage Reversion and Induces Temporal Patterning in Neural Stem Cells. **Cell** 156, 1259-1273.

Homem, C. C., Steinmann, V., Burkard, T. R., Jais, A., Esterbauer, H., and Knoblich, J. A. (2014). Ecdysone and mediator change energy metabolism to terminate proliferation in *Drosophila* neural stem cells. **Cell** 158, 874-888.

## LIST OF ACTIVE GRANTS

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### **ERC Advanced Grant**

Duration: 01/2017 – 12/2021

Funding Organization: European Research Council (ERC)

Grant number/acronym: MiniBrain

Amount: **2.8 Mio €**

Research Topic: Cerebral Organoids: Using stem cell derived 3D cultures to understand human brain development and neurological disorders

## LIST OF RECENT GRANTS (SINCE 2009)

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### **Wittgenstein Prize**

Duration: 01/2010-12/2016  
Funding Organization: Austrian Science Fund (FWF)  
Grant number/acronym: Z153-B09  
Amount: **1.5 Mio €**

### **ERC Proof of Concept Grant**

Duration: 01/2017 – 06/2018  
Funding Organization: European Research Council (ERC)  
Grant number/acronym: MiniBrains  
Amount: **150.000 €**  
Research Topic: Cerebral organoids: human mini brains in a dish open up new possibilities for drug development in neurodegenerative and developmental diseases

### **New Frontiers Research Grant, Austrian Academy of Sciences**

Duration: Planned: 06/2016 -06/2017  
Funding Organization: Austrian Academy of Sciences (OeAW)  
Grant number/acronym: NFRI 2015/13  
Amount: **350.000 €**  
Research Topic: Infrastructure for human pluripotent stem cell research

### **ERC Advanced Grant**

Duration: 04/2010 – 03/2015  
Funding Organization: European Research Council (ERC)  
Grant number/acronym: NeuroSyStem  
Amount: **2.5 Mio €**  
Research Topic: A Systems Level Approach to Proliferation and Differentiation Control in Neural Stem Cell Lineages

**Joint Project FWF / Swiss National Fund**

Duration: 04/2013 – 03/2015  
Funding Organizations: Austrian Science Fund (FWF) and Swiss National Fund (SNF)  
Grant number/acronym: I1281-B19  
Amount: **163.1 k€**  
Research Topic: From stem cell to brain tumor: a genetic analysis

**International Cooperation Grant FWF / Swiss National Fund**

Duration: 05/2010 – 04/2013  
Funding Organizations: Austrian Science Fund (FWF) and Swiss National Fund (SNF)  
Grant number/acronym: I552-B19  
Amount: **270 k€**  
Research Topic: From stem cell to brain tumor: a genetic analysis

**Collaborative Research Grant FWF**

Duration: 08/2008 – 06/2011  
Funding Organization: Austrian Science Fund (FWF)  
Grant number/acronym: P20547-B09  
Amount: **384.5 k€**  
Research Topic: *Drosophila* Tumor Suppressors and Mass Spectrometry

**EU Large Scale Integrating Project**

Duration: 03/2008 – 02/2012  
Funding Organization: European Research Council (ERC)  
Grant number/acronym: EuroSyStem  
Amount: **400 k€**  
Research Topic: European Federation for Systematic Stem Cell Biology

## PUBLICATIONS (COMPLETE LIST)

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- Bian S., Repic M., Guo Z., Kavirayani A., Burkard T., Bagley J. A., Krauditsch C., [Knoblich J. A.](#) (2018). Genetically engineered cerebral organoids model brain tumor formation. **Nat Methods** 15, 631-639.
- Wissel S., Harzer H., Bonnay F., Burkard T. R., Neumüller R. A., [Knoblich J. A.](#) (2018). Time-resolved transcriptomics in neural stem cells identifies a v-ATPase/Notch regulatory loop. **J Cell Biol.**
- Corsini N. S., Peer A. M., Moeseneder P., Roiuk M., Burkard T. R., Theussl H. C., Moll I., [Knoblich J. A.](#) (2018). Coordinated Control of mRNA and rRNA Processing Controls Embryonic Stem Cell Pluripotency and Differentiation. **Cell Stem Cell** 22, 543-558.
- Landskron L., Steinmann V., Bonnay F., Burkard T. R., Steinmann J., Reichardt I., Harzer H., Laurenson A. S., Reichert H., [Knoblich J. A.](#) (2018). The asymmetrically segregating lncRNA cherub is required for transforming stem cells into malignant cells. **Elife.**
- Corsini N. S., [Knoblich J. A.](#) (2018). Tracing Stem Cell Division in Adult Neurogenesis. **Cell Stem Cell** 22, 143-145.
- Reichardt I., Bonnay F., Steinmann V., Loedige I., Burkard T. R., Meister G., [Knoblich J. A.](#) (2018). The tumor suppressor Brat controls neuronal stem cell lineages by inhibiting Deadpan and Zelda. **EMBO Rep.** 19, 102-117.
- Abramczuk M. K., Burkard T. R., Rolland V., Steinmann V., Duchek P., Jiang Y., Wissel S., Reichert H., [Knoblich J. A.](#) (2017). The splicing co-factor Barricade/Tat-SF1 is required for cell cycle and lineage progression in Drosophila neural stem cells. **Development** 144, 3932-3945.
- Lancaster M. A., Corsini N. S., Wolfinger S., Gustafson E. H., Phillips A. W., Burkard T. R., Otani T., Livesey F. J., [Knoblich J. A.](#) (2017). Guided self-organization and cortical plate formation in human brain organoids. **Nat Biotechnol.** 35, 659-666.
- Bagley, J. A., Reumann, D., Bian, S., Lévi-Strauss, J., and [Knoblich, J. A.](#) (2017). Fused cerebral organoids model interactions between brain regions. **Nat Meth**, 14, 743-751
- Falk, S., Bugeon, S., Ninkovic, J., Pilz, G. A., Postiglione, M. P., Cremer, H., [Knoblich, J. A.](#), and Götz, M. (2017). Time-Specific Effects of Spindle Positioning on Embryonic Progenitor Pool Composition and Adult Neural Stem Cell Seeding. **Neuron** 93, 777-791.e3.
- Huch, M.\*, [Knoblich, J. A.\\*](#), Lutolf, M. P.\*, and Martinez-Arias, A.\* (2017). The hope and the hype of organoid research. **Development** 144, 938-941.
- Renner, M., Lancaster, M. A., Bian, S., Choi, H., Ku, T., Peer, A., Chung, K., and [Knoblich, J. A.](#) (2017). Self-organized developmental patterning and differentiation in cerebral organoids. **EMBO J**
- Li, Y., Muffat, J., Omer, A., Bosch, I., Lancaster, M. A., Sur, M., Gehrke, L., [Knoblich, J. A.](#), and Jaenisch, R. (2017). Induction of Expansion and Folding in Human Cerebral Organoids. **Cell Stem Cell** 20, 385-396.e3.
- Bredenoord, A. L., Clevers, H., and [Knoblich, J. A.](#) (2017). Human tissues in a dish: The research and ethical implications of organoid technology. **Science** 355.
- Landskron, L., and [Knoblich, J. A.](#) (2016). You Are What You Eat: Linking Metabolic Asymmetry and Cell Fate Choice. **Dev Cell** 37, 206-208.
- Fededa, J. P., Esk, C., Mierzwa, B., Stanyte, R., Yuan, S., Zheng, H., Ebnet, K., Yan, W., [Knoblich, J. A.](#), and Gerlich, D. W. (2016). MicroRNA-34/449 controls mitotic spindle orientation during mammalian cortex development. **EMBO Journal** 35, 2386-2398.
- Knoblich, J. A. (2016). Lab-Built Brains. **Scientific American** 316, 26-31.



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Luo, C., Lancaster, M. A., Castanon, R., Nery, J. R., Knoblich, J. A.\*, and Ecker, J. R.\* (2016). Cerebral Organoids Recapitulate Epigenomic Signatures of the Human Fetal Brain. **Cell Rep** 17, 3369-3384.

Wissel, S., Kieser, A., Yasugi, T., Duchek, P., Roitinger, E., Gokcezade, J., Steinmann, V., Gaul, U., Mechtler, K., Förstemann, K., Knoblich, J. A.\*, and Neumüller, R. A.\* (2016). A Combination of CRISPR/Cas9 and Standardized RNAi as a Versatile Platform for the Characterization of Gene Function. **G3** (Bethesda) 6, 2467-2478.

\* corresponding authors

Camp, J. G., Badsha, F., Florio, M., Kanton, S., Gerber, T., Wilsch-Bräuninger, M., Lewitus, E., Sykes, A., Hevers, W., Lancaster, M., Knoblich, J. A., Lachmann, R., Pääbo, S., Huttner, W. B., and Treutlein, B. (2015). Human cerebral organoids recapitulate gene expression programs of fetal neocortex development. **Proc Natl Acad Sci U S A** 112, 15672-15677.

Ballard, M. S., Zhu, A., Iwai, N., Stensrud, M., Mapps, A., Postiglione, M. P., Knoblich, J. A., and Hinck, L. (2015). Mammary Stem Cell Self-Renewal Is Regulated by Slit2/Robo1 Signaling through SNAI1 and mINSC. **Cell Rep** 13, 290-301.

Homem, C. C., Repic, M., and Knoblich, J. A. (2015). Proliferation control in neural stem and progenitor cells. **Nat Rev Neurosci** 16, 647-659.

Akbari, O. S., Bellen, H. J., Bier, E., Bullock, S. L., Burt, A., Church, G. M., Cook, K. R., Duchek, P., Edwards, O. R., Esvelt, K. M., Gantz, V. M., Golic, K. G., Gratz, S. J., Harrison, M. M., Hayes, K. R., James, A. A., Kaufman, T. C., Knoblich, J., Malik, H. S., Matthews, K. A., O'Connor-Giles, K. M., Parks, A. L., Perrimon, N., Port, F., Russell, S., Ueda, R., and Wildonger, J. (2015). Safeguarding gene drive experiments in the laboratory. **Science** 349, 927-929.

Lancaster, M. A., and Knoblich, J. A. (2014). Generation of cerebral organoids from human pluripotent stem cells. **Nat Protoc** 9, 2329-2340.

Marchetti, G., Reichardt, I., Knoblich, J. A., and Besse, F. (2014). The TRIM-NHL Protein Brat Promotes Axon Maintenance by Repressing src64B Expression. **J Neurosci** 34, 13855-13864.

Homem, C. C., Steinmann, V., Burkard, T. R., Jais, A., Esterbauer, H., and Knoblich, J. A. (2014). Ecdysone and mediator change energy metabolism to terminate proliferation in Drosophila neural stem cells. **Cell** 158, 874-888.

Mauri, F., Reichardt, I., Mummery-Widmer, J. L., Yamazaki, M., and Knoblich, J. A. (2014). The Conserved Discs-large Binding Partner Banderuola Regulates Asymmetric Cell Division in Drosophila. **Curr Biol** 24, 1811-1825.

Yasugi, T., Fischer, A., Jiang, Y., Reichert, H., and Knoblich, J. A. (2014). A regulatory transcriptional loop controls proliferation and differentiation in Drosophila neural stem cells. **PLoS One** 9, e97034.

Williams, SE., Ratliff, LA., Postiglione, MP., Knoblich, JA., Fuchs, E. (2014). Par3-mInsc and Gai3 cooperate to promote oriented epidermal cell divisions through LGN. **Nat Cell Biol.** 16, 758-769.

Ayukawa, T., Akiyama, M., Mummery-Widmer, JL., Stoeger, T., Sasaki, J., Knoblich, JA., Senoo, H., Sasaki, T., Yamazaki, M. (2014). Dachsous-Dependent Asymmetric Localization of Spiny-Legs Determines Planar Cell Polarity Orientation in Drosophila. **Cell Rep.** 8, 610-621.

Lancaster, M. A., and Knoblich, J. A. (2014). Organogenesis in a dish: modeling development and disease using organoid technologies. **Science** 345, 1247125.

Eroglu, E., Burkard, T. R., Jiang, Y., Saini, N., Homem, C. C., Reichert, H., and Knoblich, J. A. (2014). SWI/SNF Complex Prevents Lineage Reversion and Induces Temporal Patterning in Neural Stem Cells. **Cell** 156, 1259-1273.

Hagelkruys, A., Lagger, S., Krahmer, J., Leopoldi, A., Artaker, M., Pusch, O., Zezula, J., Weissmann, S., Xie, Y., Schofer, C., Schleder, M., Brosch, G., Matthias, P., Selfridge, J., Lassmann, H., [Knoblich, J. A.](#), and Seiser, C. (2014). A single allele of Hdac2 but not Hdac1 is sufficient for normal mouse brain development in the absence of its paralog. **Development** 141, 604-616.

Jüschke, C., Dohnal, I., Pichler, P., Harzer, H., Swart, R., Ammerer, G., Mechtler, K., [Knoblich, J. A.](#) (2013). Transcriptome and proteome quantification of a tumor model provides novel insights into post-transcriptional gene regulation. **Genome Biol.** 14(11):R133

Bardet, A. F., Steinmann, J., Bafna, S., [Knoblich, J. A.](#), Zeitlinger, J., and Stark, A. (2013). Identification of transcription factor binding sites from ChIP-seq data at high resolution. **Bioinformatics** 29, 2705-2713.

Homem, CC., Reichardt, I., Berger, C., Lendl, T., [Knoblich, J. A.](#) (2013). Long-Term Live Cell Imaging and Automated 4D Analysis of Drosophila Neuroblast Lineages. **PLoS One.** 8(11):e79588

Juschke, C., Xie, Y., Postiglione, M. P., and [Knoblich, J. A.](#) (2013). Analysis and modeling of mitotic spindle orientations in three dimensions. **Proc Natl Acad Sci U S A**

Lancaster, M. A., Renner, M., Martin, C. A., Wenzel, D., Bicknell, L. S., Hurler, M. E., Homfray, T., Penninger, J. M., Jackson, A. P., and [Knoblich, J. A.](#) (2013). Cerebral organoids model human brain development and microcephaly. **Nature** 501, 373-379.

Xie, Y., Jüschke, C., Esk, C., Hirotsune, S., [Knoblich, J. A.](#) (2013). The Phosphatase PP4c Controls Spindle Orientation to Maintain Proliferative Symmetric Divisions in the Developing Neocortex. **Neuron.** 79(2):254-65

Reichardt, I., [Knoblich, J. A.](#) (2013). Cell biology: Notch recycling is numbed. **Curr Biol.** 23(7):R270-2

Sparmann, A., Xie, Y., Verhoeven, E., Vermeulen, M., Lancini, C., Gargiulo, G., Hulsman, D., Mann, M., [Knoblich, J. A.](#), and van Lohuizen, M. (2013). The chromodomain helicase Chd4 is required for Polycomb-mediated inhibition of astroglial differentiation. **EMBO J** 32, 1598-1612.

Harzer, H., Berger, C., Conder, R., Schmauss, G., [Knoblich, J. A.](#) (2013). FACS purification of Drosophila larval neuroblasts for next-generation sequencing. **Nat Protoc.** 8(6):1088-99

Homem, CC., [Knoblich, J. A.](#) (2012). Drosophila neuroblasts: a model for stem cell biology. **Development** 139(23):4297-310

Goulas, S., Conder, R., [Knoblich, J. A.](#) (2012). The par complex and integrins direct asymmetric cell division in adult intestinal stem cells. **Cell Stem Cell** 11(4):529-40

Berger, C., Harzer, H., Burkard, TR., Steinmann, J., van der Horst, S., Laurenson, AS., Novatchkova, M., Reichert, H., [Knoblich, J. A.](#) (2012). FACS purification and transcriptome analysis of drosophila neural stem cells reveals a role for Klumpfuss in self-renewal. **Cell Rep.** 2(2):407-18

Lancaster, M.A., [Knoblich, J. A.](#) (2012). Spindle orientation in mammalian cerebral cortical development. **Curr Opin Neurobiol** 22, 737-746.

Postiglione, M. P., Juschke, C., Xie, Y., Haas, G. A., Charalambous, C., and [Knoblich, J. A.](#) (2011). Mouse inscuteable induces apical-basal spindle orientation to facilitate intermediate progenitor generation in the developing neocortex. **Neuron** 72, 269-284.

Richter, C., Oktaba, K., Steinmann, J., Müller, J., and [Knoblich, J. A.](#) (2011). The tumour suppressor L(3)mbt inhibits neuroepithelial proliferation and acts on insulator elements. **Nat Cell Biol** 13, 1029-1039.

Neumüller R.A., Constance Richter, C., Fischer, A., Novatchkova, M., Neumüller, K.G. and [Knoblich, J. A.](#) (2011) Genome wide analysis of self-renewal in Drosophila neural stem cells by transgenic RNAi. **Cell Stem Cell** 8, 580-593.

Khazaei, M. R., Bunk, E. C., Hillje, A. L., Jahn, H. M., Riegler, E. M., Knoblich, J. A., Young, P., and Schwamborn, J. C. (2011). The E3-ubiquitin ligase TRIM2 regulates neuronal polarization. **J Neurochem** *117*, 29-37.

Knoblich, J. A. (2010). Asymmetric cell division: recent developments and their implications for tumour biology. **Nat Rev Mol Cell Biol** *11*, 849-860.

Neumüller, R.A. and Knoblich, J.A. (2009). Dividing cellular asymmetry: asymmetric cell division and its implications for stem cells and cancer. **Genes Dev** *23*, 2675-2699.

Conder, R., and Knoblich, J. A. (2009). Fly stem cell research gets infectious. **Cell** *137*, 1185-1187.

Neumuller, R. A., and Knoblich, J. A. (2009). Wicked views on stem cell news. **Nat Cell Biol** *11*, 678-679.

Coumailleau, F., Fürthauer, M., Knoblich, J.A. and González-Gaitán, M. (2009). Directional Delta/Notch trafficking in asymmetric Sara endosomes during asymmetric cell division. **Nature**, *458*, 1051-1055.

Mummery-Widmer, J.L., Yamazaki, M., Stoeger, T., Novatchkova, M., Chen, D., Dietzl, G., Dickson, B.J., and Knoblich, J.A. (2009) Genome-wide analysis of Drosophila external sensory organ development by transgenic RNAi, **Nature**, *458*, 987-992.

Schwamborn, J.C. Berezikov, E., and Knoblich, J.A. (2009). The TRIM-NHL protein TRIM32 activates microRNAs and prevents self-renewal in mouse neural progenitors, **Cell**, *136*, 913-925.

Barral, Y., and Knoblich, J. (2008). Cell division, growth and death (Editorial Overview). **Curr Opin Cell Biol** *20*, 647-649.

Benetka, W., Mehlmer, N., Maurer-Stroh, S., Sammer, M., Koranda, M., Neumuller, R., Betschinger, J., Knoblich, J. A., Teige, M., and Eisenhaber, F. (2008). Experimental testing of predicted myristoylation targets involved in asymmetric cell division and calcium-dependent signalling. **Cell Cycle** *7*, 3709-3719.

Wirtz-Peitz, F., Nishimura, T., and Knoblich, J.A. (2008). Linking cell cycle to asymmetric division: Aurora-A phosphorylates the Par complex to regulate Numb localization, **Cell**, *135*, 161-173.

Neumüller, R.A., Betschinger, J., Fischer, A., Bushati, N., Poernbacher, I., Mechtler, K., Stephen M. Cohen, S.M. and Knoblich, J.A. (2008). Mei-P26 regulates micro RNAs and cell growth in the *Drosophila* ovarian stem cell lineage, **Nature**, *454*, 241-245.

Speicher, S., Fischer, A., Knoblich, J. A., and Carmena, A. (2008) The PDZ Protein Canoe Regulates the Asymmetric Division of Drosophila Neuroblasts and Muscle Progenitors . **Curr Biol**, *18*, 831-837.

Bowman, S. K., Rolland, V., Betschinger, J., Kinsey, K. A., Emery, G., and Knoblich, J. A. (2008). The Tumor Suppressors Brat and Numb Regulate Transit-Amplifying Neuroblast Lineages in Drosophila. **Dev Cell**, *14*, 535-546.

Schwamborn, J.C. and Knoblich, J.A. (2008) Lis1 and spindle orientation in neuroepithelial cells. **Cell Stem Cell**, *2*, 193-194.

Knoblich, J.A. (2008) Mechanisms of Asymmetric Stem Cell Division, **Cell**, *132*, 583-597.

Jüschke, C. and Knoblich, J.A. (2008) Purification of *Drosophila* Protein Complexes for Mass Spectrometry, **Methods Mol Biol.**, *420*, 347-58.

Knoblich, J.A. (2007) On the backroads to cellular asymmetry, **Development** *134*, 4311-4313.

Knoblich, J. A. (2006). Cell biology. Sara splits the signal. **Science** *314*, 1094-1096.

Gallagher, C. and Knoblich, J.A. (2006) The conserved C2 domain protein Lethal (2) giant discs regulates protein trafficking in *Drosophila*. **Dev Cell**, *11*, 641-653.

Emery, G. and [Knoblich, J.A.](#) (2006). Endosome dynamics during development. **Curr Opin Cell Biol**, *18*, 407-415.

Hutterer, A., Berdnik, D., Wirtz-Peitz, F., Zigman, M., Schleiffer, A. and [Knoblich, J. A.](#) (2006). Mitotic activation of the kinase Aurora-A requires its binding partner Bora. **Dev Cell**, *11*, 147-157.

Bowman, S. K., Neumuller, R. A., Novatchkova, M., Du, Q., and [Knoblich, J. A.](#) (2006). The Drosophila NuMA Homolog Mud Regulates Spindle Orientation in Asymmetric Cell Division. **Dev Cell** *10*, 731-742.

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