

CURRICULUM VITAE

MAGDALENA ZERNICKA-GOETZ

Professor of Mammalian Development and Stem Cell Biology
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PERSONAL INFORMATION

Nationality: Polish and British
Children: Natalia Katarzyna (born 2001) and Szymon David (born 2007)

EDUCATION

1982-1988 University of Warsaw, Faculty of Biology, Warsaw, Poland
Graduated with summa cum laude
Master of Science, Developmental Biology

1989-1993 University of Warsaw, Warsaw, Poland
Department of Embryology, *Supervisor* Prof. Andrzej Tarkowski
PhD, Developmental Biology of Mammals

1990-1991 University of Oxford, Oxford, UK
Department of Zoology, *Supervisor* Prof. Chris Graham
PhD SOROS Foundation Fellowship

PROFESSIONAL HISTORY

from 2010 Professor of Mammalian Development and Stem Cell Biology
Department of Physiology, Development & Neuroscience
University of Cambridge, Cambridge, UK

from 2016 Fellow of Sidney Sussex College, Cambridge

2003 - 2023 Wellcome Trust Senior Research Fellow
University of Cambridge

2007-2010 Reader in Developmental Biology, tenure awarded at the University of Cambridge
Department of Physiology, Development & Neuroscien

from 2003 Group Leader, Wellcome Trust/Cancer Research Institute, University of Cambridge

1997-2003 Senior Research Fellow, Sidney Sussex College, Cambridge

1997-2002 Lister Institute Senior Research Fellow
The Gurdon Institute and Department of Genetics, University of Cambridge

1995-1997 EMBO Fellow

RESEARCH SUPPORT

- 2018-2023 Wellcome Trust Senior Research Fellowship (PI): Embryo architecture, potency and tissue interactions during mouse and human development
- 2016-2021 European Research Council Advanced Grant (PI). Self-Organising Capacity of Stem Cells during Implantation and Early Post-implantation Development
- 2013-2018 Wellcome Trust Senior Research Fellowship (PI): Regulation and dynamics of progressive cell fate transitions and morphogenesis during development of the early mouse embryo
- 2013-current EMBO fellowships for 3 post-doctoral fellows
- 2016-current Marie Curie Fellowship for 1 post-doctoral fellow
- 2007-2014 Wellcome Trust Senior Research Fellowship (PI): Early cell fate decisions and cell positioning in the mouse embryo
- 2008-2011 Medical Research Council (co-PI): Investigating the role of cyclin B1 in early cell divisions
- 2008-2011 Wellcome Trust (co-PI): Zygote viability judged by image analysis
- 2002-2007 Wellcome Trust Senior Research Fellowship (PI): Development of early asymmetry and embryonic polarity in the mouse
- 2004-2007 Biotechnology and Biological Science Research Council (PI): Morphogenetic cell movements in the mouse embryo immediately after implantation
- 2002-2005 Biotechnology and Biological Science Research Council (PI): Role of Par genes in early mouse development
- 2002-2004 CRT Grant/GSK/Cyclacel Collaboration: RNA interference in embryonic and tissue culture cells in mammals
- 2000-2003 Human Frontier Science Program Grant (co-PI). Mechanism of axis formation in mammals
- 1997-2000 Wellcome Trust Project Grant (PI): Spatial patterning and cell fate determination in the early mouse embryo.
- 1997-2001 Cancer Research UK (co-PI): Mammalian polo-like kinase: dissecting its function in mouse meiosis and early embryonic cell cycles.
- 1997-2002 Lister Senior Research Fellowship (PI): Spatial patterning and cell fate in the mouse embryo.

RECOGNITION IN THE FIELD

Fellowship of Academic Societies

- Foreign Member of Polish Academy of Science, elected 2017
- Foreign Member of Polish Academy of Arts and Sciences, elected 2016
- Fellow of British Academy of Medical Science, elected 2013
- Member of European Molecular Biology Organization, elected 2007

Awards and Honours

- International Foundation IVI Award for the **Best Basic Research in Reproductive Medicine**, 2017
- Winner of the People's Vote for **Scientific Breakthrough of the year 2016** by Science magazine
- Feature profile in Science magazine, "**Pushing the limit**" by Gretchen Vogel. Science. Volume

354(6311):404-407. October 28, 2016. Published by AAAS.

- **Anne McLaren Memorial** Lecture Award, International Society of Differentiation, 2008
- **Young Investigator Award**, EMBO (2001-2004)
- Wellcome Trust Senior **Research Fellowship** (2002-2008, 2008-2013, 2013-2018)
- Lister Institute of Preventative Medicine Senior **Research Fellowship** (1997-2002)
- EMBO Long-term post-doctoral Fellowship (1995-1997)
- **Best Ph.D. thesis** Award, Polish Ministry of Education, 1994
- **Promising Young Scientist Prize**, Foundation for Polish Science, 1993

Scientific Advisory Boards and Career Evaluation Panels

- Max Planck Institute for Molecular Genetics, Scientific Advisory Board, Berlin, Germany
- Center for Genomic Regulation (CRG) Barcelona, Scientific Advisory Board, Barcelona, Spain
- Institute for Stem Cell and Regenerative Medicine Scientific Advisory Board, the University of Washington, USA
- Weizmann Institute of Scientific Advisory Board, Israel
- Interdisciplinary Panel of Experts "First Team", Foundation for Polish Science, Warsaw, Poland
- Center of Education and Technology, Scientific Advisory Board, University of Warsaw, Poland
- Career Evaluation Panel, Pasteur Institute, Paris, France
- Sustain Programme, British Academy of Medical Sciences, to support the career development of women researchers on the cusp of independence, UK
- International Society of Differentiation, Board Member
- Member of Editorial Boards of: Cell Research, Differentiation, PeerJ, Developmental Dynamics, Faculty of 1000, Cells, Reproduction, BMC Dev Biol.
- Cambridge Philosophical Society, Board Member

Organisation of international conferences (examples)

Pluripotency and Reprogramming. Cambridge Philosophical Society, UK 2009. Scientific co-organiser.
Cell Biology of Early Mouse Development. EMBO Workshop, Cambridge, UK 2012. Scientific organizer.

Frontiers in Reproductive Biology. SKLRB Symposium. Beijing, China, 2014. Scientific co-organiser.

International conference on Stem Cells. Rhodes, Greece, 2017. Scientific co-organiser.

Reproduction and Development: Revealing the origins of life. Wellcome Genome Campus 2018. Scientific co-organiser.

Teaching overview

MZG teaching is focused on developmental biology to undergraduate and graduate students at the University of Cambridge.

MZG organises the courses for the 2nd and 3rd year students focusing upon development of pluripotent embryonic stem cells within the embryo and in vitro and their differentiation and self-organisation steps. She is also an instructor in human reproduction classes.

Lectures

Undergraduate & Medical Student Lectures and Practical Classes:

Part II course "Patterning the Embryo" series of lectures and journal clubs.

Organizer of the Part II course "Pluripotency and Differentiation" series of lectures and journal clubs.

Instructor on Laboratory Class on "Human Reproduction"

Graduate student courses:

Developmental Biology course, lectures

Imaging development in vivo course, lectures

Career Mentoring

MZG has trained 20 graduate students for the PhD degree and 27 post-doctoral fellows and currently mentors 2 Master students, 6 PhD students, 10 post-doctoral fellows and 1 GAP-year pre-University student. Many of her ex-lab-members continue their careers in science. For example, Maria Elena Torres-Padilla (PI at Max Planck Institute, Munich), Qiang Wu (PI at National University of Singapore), Sigolene Meilhac (PI, Institute Pasteur, Paris), Samantha Morris (PI, Washington University, St Louis), Jia Na (PI, Tsinghua University, Beijing, China), Alex Bruce (PI, University of South Bohemia, Czech Republic), Ivan Bedzhov (PI, Max Planck Institute, Muenster), Gaella Recher CNRS Researcher, Bordeaux, France.

Current Group Members

Gianluca Amadei, Postdoctoral fellow
Neophytos Christodoulou, Postdoctoral fellow
Andy Cox, Postdoctoral fellow and Lab Manager
Charlotte Handford, PhD student
Christos Kyprianou, PhD student
Juliet Tyndall, lab technician
Kirsty Mackinlay, PhD student
Matteo Mole, Postdoctoral fellow
Lorenzo Orietti, PhD student
Shruti Singla, PhD student
Marta Shahbazi, Postdoctoral fellow
Berna Sozen, PhD student
Antonia Weberling, MSc student
Meng Zhu, PhD student

PATENTS

1. 2000 **"Inhibiting Gene Expression with dsRNA"**. European and USA Patents following first demonstration of RNAi in mammalian cells (Wianny, F & Zernicka-Goetz, M. 2000. Nature Cell Biology). Worldwide exclusive therapeutic rights licensed to Alnylam Pharmaceuticals, Inc.
2. 2011 **"Monitoring embryo vitality"**. Pattern of cytoplasmic movements in the mammalian egg at fertilisation are predictive of successful development to birth (Ajduk et al 2011 Nature Communications).
3. 2013 **"Embryo in vitro culture system"**. Method for culturing mammalian embryos beyond the blastocyst stage outside the mother (Bedzhov and Zernicka-Goetz, Cell 2014). Licensed to Cell Guidance.

SEMINARS AND INVITED PRESENTATIONS (*last 4 years only*)

- Imaging in Development conference, Les Houches, France, January 2014
- American Developmental Biology Training Grant Retreat, University of Utah, USA, April 2014
- Seminar at Weizmann Institute, Israel, May 2014
- Annual Conference of the Israel Fertility Association, Tel Aviv, Israel, May 2014
- Seminar at Institute Curie, Paris, France, June 2014
- Gordon Conference: Signaling by Adhesion Receptors, Bates Collage, USA, June 2014
- Seminar at Department of Developmental and Regenerative Biology, Mount Sinai, USA, June 2014
- Developmental Biology Swebodo conference, Umeå, Sweden, October 2014

- **Plenary lecture** at SKLRB Symposium on Reproductive Biology, Beijing, China, October 2014
- Seminar at Institute for Reproductive Sciences, University of Oxford, UK, December 2014
- Seminar at Max-Planck Institute for Molecular Genetics, Berlin, Germany, March 2015
- Keystone meeting Transcriptional and Epigenetic Influences on Stem Cell States, Colorado, USA, March 2015
- Cellular Heterogeneity Symposium, Heidelberg, Germany, April 2015
- **Keynote address** at Young Embryologists Network meeting, King's College London, UK, May 2015
- Seminar at University College London, Institute of Child Health, London, UK, May 2015
- **Frontiers Seminar**, Stanford University, USA, May, 2015
- Meeting Society for the Study of Reproduction "Evolution of Sex", San Paulo, Puerto Rico, June 2015
- Seminar Biopolis, Singapore, July 2015
- EMBO Conference, Birmingham, UK, September 2015
- Congress on Stem cells and cellular therapies, Antalya, Turkey, October 2015
- Titisee Conference "Organoids: modelling, development and disease in 3D culture", Titisee, Germany, October 2015
- Seminar at Max Planck Institute (MPI) for Developmental Biology, Tübingen, Germany, November 2015
- Seminar at Institute for Reproductive Sciences, University of Oxford, UK, December 2015
- Stem Cells and Organoids as Models of Tissue Differentiation and Disease Conference, Royal College of Physicians, London, UK, January 2016
- **EMBO Keynote Lecture**, The Hunter Cell and Developmental Biology Meeting, Australia, April 2016
- **Childx TED Lecture**, Conference, Stanford, USA, April 2016
- ESHG meeting, Barcelona, May 2016
- Seminar UPenn, Philadelphia, USA, June 2016
- Cell Biology Workshop, Nencki Institute conference, Warsaw, Poland, June 2016
- Imaging Mouse Development, Janelia Mammalian Embryo Imaging Workshop, USA, June 2016
- Seminar Center of Trophoblast Research, Cambridge, UK, July 2016
- SDB/ISD Meeting, Boston, **Plenary lecture**, August 2016
- Cell fate Diversity in Aging conference, Dubrovnik, Croatia, September 2016
- **Keynote lecture**, EMBO Conference on Chromatin and Epigenetics, October 2016
- Congress on Controversies in Obstetrics, Gynaecology & Infertility, Amsterdam, Holland
- "Breaking News" Session, November 2016
- Opening conference "**Breaking news**" **lecture**, Translational Reproductive Biology and Clinical Reproductive Endocrinology, New York, USA, November 2016
- **Keynote presentation** Nuffield Council workshop – statutory time limit for maintaining human embryos in culture, London, December 2016
- **Plenary lecture** at Progress Educational Trust, the 14-day rule for Human Embryos, UCL, Institute of Child Health, London, December 2016

- **Peter Thorogood Memorial Lecture**, Head Group Meeting, UCL, London January 2017
- **Keynote lecture**, Life III Summit, Barcelona, Spain, January 2017
- **Keynote speaker**, Morphogenesis EMBO Meeting, Paris, France, March 2017
- **Plenary lecture**, Preimplantation Genetic Diagnosis International Society meeting, Valencia, Spain, March 2017
- Seminar at Max Plank Institute for Molecular Genetics, Berlin, Germany, March 2017
- Seminar at Kings College London, UK, March 2017
- Seminar, CalTech, USA, April 2017
- **Plenary lecture**, International Congress on Reproduction, Bilbao, Spain, May 2017
- **Keynote lecture** Developmental Biology conference, Krakow, Poland, May 2017
- Lecture at **Hay Festival**, May 2017
- **Anne McLaren Lecture**, ISCCR meeting, Boston, June 2017
- Center for Genomic Regulation, Barcelona, July 2017
- Salk Institute, August 2017
- CSH Stem Cell Biology symposium, September 2017
- 2nd International Stem Cell Meeting Rhodes, September 2017
- Belgium Stem Cell Society Annual Meeting, November 2017
- **Nobel Prize Laureate Robert Edward Annual Lecture**, Congress on Controversies in Obstetrics, Gynaecology & Infertility, Vienna, December 2017
- Progress Educational Trust, Crossing Frontiers conference, London, December 2017
- Seminar at the Whitehead Institute for Biomedical Research, Boston, December 2017
- **Keynote lecture**, SY-Stem IMBA conference, Vienna, February 2018
- Wellcome Genome Campus, Reproduction and Development Conference, March 2018
- Keystone Symposia x5/x6 conference, Whistler, Canada, March 2018
- 117th International Titisee conference, Germany, April 2018
- **Plenary Lecture** at the Polish Academy of Science, Warsaw, April 2018
- Chan Zuckerberg Initiative, San Francisco, May 2018
- ESHRE 2018, Barcelona, July 2018
- **Dr. Kwang Yul Cha Lecture**, Society for the Study of Reproduction, New Orleans, July 2018
- Gordon Research Conference on Mammalian Reproduction, Italy, July 2018
- **Keynote lecture**, Stem Cell Dynamics Throughout life: From Development to the Adult, Switzerland, August 2018
- 3rd International Building the Cell meeting, Institut Pasteur, Paris, September 2018
- **Plenary President's Guest Lecture**, ASRM 2018 scientific congress, USA, October 2018
- Lecture at University of St Louis, USA, October 2018
- CNRS modeling cell fate meeting, France, November 2018

PUBLICATIONS

MZG published 126 papers: of these, 113 are peer-reviewed (78 as the last senior and 21 as the first author). Current h-index = 44.

Peer-reviewed Publications

1. Sozen B, Amadei G, Cox A, Wang R, Na E, Czukiewska S, Chappell L, Voet T, Michel G, Jing N, Glover DM, **Zernicka-Goetz M.** (2018). Self-assembly of embryonic and two extra-

- embryonic stem cell types into gastrulating embryo-like structures. **Nature Cell Biol.** Aug;20(8):979-989. PMID:30038254
2. Shahbazi MN and **Zernicka-Goetz M.** (2018). Deconstructing and reconstructing the mouse and human early embryo. **Nature Cell Biol.** Aug;20(8):878-887. Review. PMID:30038253
 3. Harrison SE, Sozen B and **Zernicka-Goetz M.**(2018). In vitro generation of mouse polarized embryo-like structures from embryonic and trophoblast stem cells. **Nature Protoc.** Jul;13(7):1586-1602. PMID:29988106
 4. Chen Q, Shi J, Tao Y and **Zernicka-Goetz M.** (2018). Tracing the origin of heterogeneity and symmetry breaking in the early mammalian embryo. **Nature Commun.** May 8;9(1):1819. Review. PMID:29739935
 5. Shahbazi MN, Scialdone A, Skorupska N, Weberling A, Recher G, Zhu M, Jedrusik A, Devito LG, Noli L, Macaulay IC, Buecker C, Khalaf Y, Ilic D, Voet T, Marioni JC, **Zernicka-Goetz M.** (2017). Pluripotent state transitions coordinate morphogenesis in mouse and human embryos. **Nature** 14;552(7684):239-243. PMID: 29186120
 6. Strauss B, Harrison A, Coelho PA, Yata K, **Zernicka-Goetz M,** Pines J. (2018). Cyclin B1 is essential for mitosis in mouse embryos, and its nuclear export sets the time for mitosis. **J Cell Biol.** 2018 Jan 2;217(1):179-193. doi: 10.1083/jcb.201612147. PMID: 29074707
 7. Papaspyropoulos A, Bradley L, Thapa A, Leung CY, Toskas K, Koennig D, Pefani DE, Raso C, Grou C, Hamilton G, Vlahov N, Grawenda A, Haider S, Chauhan J, Buti L, Kanapin A, Lu X, Buffa F, Dianov G, von Kriegsheim A, Matallanas D, Samsonova A, **Zernicka-Goetz M,** O'Neill E (2018). RASSF1A uncouples Wnt from Hippo signalling and promotes YAP mediated differentiation via p73. **Nature Commun.** Jan 30;9(1):424. doi: 10.1038/s41467-017-02786-5. PMID: 2938281
 8. Harrison SE, Sozen B, Christodoulou N, Kyprianou C and **Zernicka-Goetz M** (2017). Assembly of embryonic and extra-embryonic stem cells to mimic embryogenesis in vitro. **Science.** Mar 2. pii: eaal1810. doi: 10.1126/science.aal1810.
 9. Zhu M, Leung CY, Shahbazi MN and **Zernicka-Goetz M.** (2017). Actomyosin polarisation through PLC-PKC triggers symmetry breaking of the mouse embryo. **Nature Commun.** Oct 13;8(1):921. doi: 10.1038/s41467-017-00977-8. PMID:29030553
 10. Bury L, Coelho PA, Simeone A, Ferries S, Evers CE, Evers PA, **Zernicka-Goetz M** and Glover DM (2017). Plk4 and Aurora A cooperate in the initiation of acentriolar spindle assembly in mammalian oocytes. **J Cell Biol.** Sep 28. pii: jcb.201606077. doi: 10.1083/jcb.201606077. PMID: 28972102
 11. Ajduk A, Strauss B, Pines J and **Zernicka-Goetz M.** (2017). Delayed APC/C activation extends the first mitosis of mouse embryos. **Sci Rep.** Aug 29;7(1):9682. doi: 10.1038/s41598-017-09526-1. PMID:28851945
 12. Goolam M and **Zernicka-Goetz M.** (2017). The chromatin modifier Satb1 regulates cell fate through Fgf signalling in the early mouse embryo. **Development.** 2017 Mar 13. pii: dev.144139. doi: 10.1242/dev.144139.
 13. Shahbazi MN Jedrusik A, Vuoristo S, Recher G, Hupalowska A, Bolton V, Fogarty N, Campbell A, Gasparini LD, Ilic D, Khalaf Y Niakan KK, Fishel S and **Zernicka-Goetz M.** (2016). Human

embryo implantation morphogenesis and self-organization in the absence of maternal tissues. **Nature Cell Biology**, 18(6):700-8. doi: 10.1038/ncb3347

14. Deglincerti A, Croft GF, Pietila LN, **Zernicka-Goetz M**, Siggia ED, and Brivanlou A. (2016). Self-organization of the *in vitro* attached human embryo. **Nature** 4;533(7602):251-4. doi: 10.1038/nature17948.
15. Leung CY, Zhu M, **Zernicka-Goetz M** (2016). Polarity in Cell-Fate Acquisition in the Early Mouse Embryo. *Curr Top Dev Biol*. 120:203-34. doi: 10.1016/bs.ctdb.2016.04.008.
16. Goolam M, Scialdone A, Graham SJ, Macaulay IC, Jedrusik A, Hupalowska A, Voet T, Marioni JC and **Zernicka-Goetz M** (2016). Heterogeneity in Oct4 and Sox2 Targets Biases Cell Fate in Four-Cell Mouse Embryos. **Cell**, 165(1):61-74. doi: 10.1016/j.cell.2016.01.047. PMID: 27015307.
17. Bolton H, Graham SJ, Van der Aa N, Kumar P, Theunis K, Fernandez Gallardo E, Voet T, and **Zernicka-Goetz M** (2016). Mouse model of chromosome mosaicism reveals lineage-specific depletion of aneuploid cells and normal developmental potential. **Nature Commun.** 7:11165. doi: 10.1038/ncomms11165. PMID: 27021558
18. Panamarova M, Cox A, Wicher K, Butler R, Bulgakova N, Jeon S, Rosen B, Seong RH, Skarnes W, Crabtree G and **Zernicka-Goetz M** (2016). BAF chromatin remodelling complex is an epigenetic regulator of lineage specification in the early mouse embryo. **Development**. 143(8):1271-83. doi: 10.1242/dev.131961. PMID: 26952987
19. Graham SJ, **Zernicka-Goetz M**. (2016) The Acquisition of Cell Fate in Mouse Development: How Do Cells First Become Heterogeneous? **Curr Top Dev Biol**. 117:671-95. doi: 10.1016/bs.ctdb.2015.11.021. PMID: 26970007
20. Leung CY, **Zernicka-Goetz M**. (2015). Mapping the journey from totipotency to lineage specification in the mouse embryo. **Curr Opin Genet Dev**. 34:71-6. doi: 10.1016/j.gde.2015.08.002. PMID: 2634301
21. Coelho PA, Bury L, Shahbazi MN, Liakath-Ali K, Tate PH, Wormald S, Hindley CJ, Huch M, Archer J, Skarnes WC, **Zernicka-Goetz M** and Glover DM (2015). Over-expression of Plk4 induces centrosome amplification, loss of primary cilia and associated tissue hyperplasia in the mouse. **Open Biol**. 5(12):150209. doi: 10.1098/rsob.150209. PMID: 26701933.
22. Ajduk A, **Zernicka-Goetz M** (2015). Polarity and cell division orientation in the cleavage embryo: from worm to human. **Mol Hum Reprod**. pii: gav068. PMID: 2666032
23. Bedzhov I, Bialecka M, Zielinska A, Kosalka J, Antonica F, Thompson AJ, Franze K, **Zernicka-Goetz M** (2015). Development of the anterior-posterior axis is a self-organizing process in the absence of maternal cues in the mouse embryo. **Cell Res**. 25(12):1368-71. doi: 10.1038/cr.2015.104. PMID: 26337800
24. Graham SJ, Wicher KB, Jedrusik A, Guo G, Herath W, Robson P and **Zernicka-Goetz M**. (2015). BMP signaling regulates the pre-implantation development of extra-embryonic cell lineages in the mouse embryo. **Nature Commun**. 5:5667. doi: 10.1038/ncomms6667. PMID: 25514175

25. Macaulay IC, Haerty W, Kumar P, Li YI, Hu TX, Teng MJ, Goolam M, Saurat N, Coupland P, Shirley LM, Smith M, Van der Aa N, Banerjee R, Ellis PD, Quail MA, Swerdlow HP, **Zernicka-Goetz M**, Livesey FJ, Ponting CP, Voet T (2015). G&T-seq: parallel sequencing of single-cell genomes and transcriptomes. **Nature Methods**. doi: 10.1038/nmeth.3370. PMID: 25915121
26. Bedzhov I and **Zernicka-Goetz M**. (2015). Cell death and morphogenesis during early mouse development: Are they interconnected? **Bioessays**. 37(4):372-8. doi:10.1002/bies.201400147. PMID: 25640415
27. Jedrusik A, Cox A, Wicher K, Glover D and **Zernicka-Goetz M**. (2014). Maternal zygotic knockout reveals a critical role of Cdx2 in the morula to blastocyst transition. **Dev Biol**. 398(2):147-52. doi: 10.1016/j.ydbio.2014.12.004. PMID: 25512302
28. Bedzhov I, Leung CY, Bialecka M, **Zernicka-Goetz M**. (2014). In vitro culture of mouse blastocysts beyond the implantation stages. **Nature Protocols** 9(12):2732-9. doi: 10.1038/nprot.2014.186. PMID: 25356584
29. Bedzhov I, Graham SJ, Leung CY and **Zernicka-Goetz M** (2014). Developmental plasticity, cell fate specification and morphogenesis in the early mouse embryo. **Philos Trans R Soc Lond B Biol Sci**. 369(1657). pii: 20130538 doi: 10.1038/nprot.2014.186 PMID: 25349447
30. Bedzhov I and **Zernicka-Goetz M**. (2014). Self-organizing properties of mouse pluripotent cells initiate morphogenesis upon implantation. **Cell**. 156(5):1032-44. doi: 10.1016/j.cell.2014.01.023. PMID: 24529478
31. Christophorou MA, Castelo-Branco G, Halley-Stott RP, Oliveira CS, Loos R, Radzishchanskaya A, Mowen KA, Bertone P, Silva JC, **Zernicka-Goetz M**, Nielsen ML, Gurdon JB, Kouzarides T. (2014). Citrullination regulates pluripotency and histone H1 binding to chromatin. **Nature**. 507(7490):104-8. doi: 10.1038/nature12942. PMID: 24463520
32. Ajduk A, Biswas Shivhare S and **Zernicka-Goetz M**. (2014). The basal position of nuclei is one pre-requisite for asymmetric cell divisions in the early mouse embryo. **Dev Biol**. 392(2):133-40. doi: 10.1016/j.ydbio.2014.05.009. PMID: 24855000
33. Coelho PA, Bury L, Sharif B, Riparbelli MG, Callaini G, Glover DM and **Zernicka-Goetz M**. (2013). Spindle formation in the mouse embryo requires plk4 in the absence of centriole. **Dev Cell**. 27(5):586-97. doi: 10.1016/j.devcel.2013.09.029. PMID: 24268700
34. Morris SA, Graham SJ, Jedrusik A and **Zernicka-Goetz M**. (2013). The differential response to Fgf signaling in cells internalized at different times influences lineage segregation in preimplantation mouse embryos. **Open Biol**. 3(11):130104. doi: 10.1098/rsob.130104. PMID: 24258274
35. Leung CY and **Zernicka-Goetz M**. (2013). Angiomotin prevents pluripotent lineage differentiation in mouse embryos via Hippo pathway-dependent and -independent mechanisms. **Nature Commun**. 4:2251. doi: 10.1038/ncomms3251. PMID: 23903990
36. Skamagki M, Wicher KB, Jedrusik A, Ganguly S and **Zernicka-Goetz M**. (2013). Asymmetric Localization of Cdx2 mRNA during the First Cell-Fate Decision in Early Mouse Development. **Cell Reports**. 3(2):442-57. doi: 10.1016/j.celrep.2013.01.006. PMID: 23375373

37. Ajduk A and **Zernicka-Goetz M** (2013). Quality control of embryo development. **Mol Aspects Med.** 34(5):903-18. doi: 10.1016/j.mam.2013.03.001. Epub 2013 Apr 4. Review. PMID: 23563243
38. **Zernicka-Goetz M.** (2013). Development: do mouse embryos play dice? **Curr Biol.** 23(1):R15-7. doi: 10.1016/j.cub.2012.10.032. PMID: 23305662
39. Morris S, Guo A and **Zernicka-Goetz M** (2012). Developmental plasticity is bound by pluripotency and the fgf and wnt signaling pathways. **Cell Reports.** 2(4):756-65. doi: 10.1016/j.celrep.2012.08.029. PMID: 23041313
40. Pasque V, Radziskeuskaya A, Gillich A, Halley-Stott RP, Panamarova M, **Zernicka-Goetz M**, Surani MA, Silva JC. (2012). Histone variant macroH2A marks embryonic differentiation in vivo and acts as an epigenetic barrier to induced pluripotency. **J Cell Sci.** 125(Pt 24):6094-104. doi: 10.1242/jcs.113019. PMID: 2307718
41. Morris SA, Grewal S, Barrios F, Patankar SN, Strauss B, Buttery L, Alexander M, Shakesheff KM and **Zernicka-Goetz M.** (2012). Dynamics of anterior-posterior axis formation in the developing mouse embryo. **Nature Commun.** 3:673. doi: 10.1038/ncomms1671. PMID: 2233407
42. Morris SA and **Zernicka-Goetz M** (2012). Formation of distinct cell types in the mouse blastocyst. **Results Probl Cell Differ.** 55:203-17. doi: 10.1007/978-3-642-30406-4_11. PMID: 22918808
43. Ajduk A and **Zernicka-Goetz M.** (2012). Advances in embryo selection methods. **F1000 Biol Rep.** 4:11. doi: 10.3410/B4-11. PMID: 22685489
44. Lee YH, Ma H, Tan TZ, Ng SS, Soong R, Mori S, Fu XY, **Zernicka-Goetz M**, Wu Q. (2012). Protein arginine methyltransferase 6 regulates embryonic stem cell identity. **Stem Cells Dev.** 21(14):2613-22. doi: 10.1089/scd.2011.0330. PMID: 22455726
45. Swann K, Windsor S, Campbell K, Elgmati K, Nomikos M, **Zernicka-Goetz M**, Amso N, Lai FA, Thomas A, Graham C. (2012). Phospholipase C- ζ -induced Ca²⁺ oscillations cause coincident cytoplasmic movements in human oocytes that failed to fertilize after intracytoplasmic sperm injection. **Fertil Steril.** 97(3):742-7. doi: 10.1016/j.fertnstert.2011.12.013. PMID: 22217962
46. Ajduk A, Ilozue T, Windsor S, Yu Y, Seres KB, Bomphrey RJ, Tom BD, Swann K, Thomas A, Graham C and **Zernicka-Goetz M** (2011). Rhythmic actomyosin-driven contractions induced by sperm entry predict mammalian embryo viability. **Nature Commun.** 2:417. doi: 10.1038/ncomms1424. PMID: 21829179
47. **Zernicka-Goetz M.** (2011) Proclaiming fate in the early mouse embryo. **Nature Cell Biology.** 13(2):112-4. doi: 10.1038/ncb0211-112. PMID: 21283119
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