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Nationality Australian and British

Current Post Head of School, Biological Sciences
Professor of Cell Biology

Education

1999 Certificate in Teaching and Learning in Higher Education, University of Newcastle, UK.

1991-1994 PhD. University of Liverpool, UK. "The role of calcium in the differentiation of human keratinocytes" Faculty of Medicine.

1986-1989 BSc Biochemistry (First Class Honours), University of Leeds, UK

1978-1985 Wolverhampton Grammar School, UK.

Employment

2013- **Head of Biological Sciences**, Faculty of Natural and Environmental Sciences, University of Southampton, UK.

2013- **Professor of Cell Biology**, Biological Sciences, Faculty of Natural and Environmental Sciences, University of Southampton, UK.

2013- **Conjoint Professor of Human Physiology**, School of Biomedical Sciences and Pharmacy, University of Newcastle, Australia.

2008-2012 **Professor in Human Physiology**, School of Biomedical Sciences and Pharmacy, & **Co-Director of the Priority Research Centre in Reproductive Biology**, University of Newcastle, Australia.

2005-2008 **Professor in Reproductive Physiology**, Institute for Cell and Molecular Biosciences, University of Newcastle, UK.

2005 **Reader in Reproductive Physiology**, Institute for Cell and Molecular Biosciences, University of Newcastle, UK.

2002-2005 **Senior Lecturer**, Institute for Cell and Molecular Biosciences, University of Newcastle, UK.

1998-2002 **Lecturer**, Department of Physiological Sciences, University of Newcastle, UK.

1997-1998 **Senior Research Fellow**, Department of Anatomy & Developmental Biology, University College, London, UK.

1994-1997 **Non-Clinical Scientist Grade 1**, MRC Experimental Embryology & Teratology Unit, St. George's Hospital Medical School, London, UK.

1991-1994 **PhD**, Faculty of Medicine, University of Liverpool and Department of Dermatology, University of Newcastle, UK.

Research Funding

UK ~ £2.9 Million PI + CoI funding (69% gained as PI)

Aus ~\$3.7 Million PI + CoI funding (62% gained as PI) £1 ~\$2AUD

Amount	Investigators (lead)	Funding Source	Years	Funding scheme	Title
£547,339 (FEC)	Jones KT	Biotechnology and Biological Sciences Research Council	2017-2020	Project Grant	Investigation into why oocytes fail to mature into eggs
£601,373 (FEC)	Jones KT	Biotechnology and Biological Sciences Research Council	2014-2017	Project Grant	Mechanisms of DNA damage and repair in mature oocytes
\$330 000	Jones KT	Australian Research Council	2012-2014	Discovery Project	The control of chromosome division during female meiosis
\$600 000	Jones KT, Moreno S, McLaughlin E.	Australian Research Council	2011-2014	Discovery Project	Gamete-specific knockout of Fizzy-Related to examine its meiotic role in oocytes and sperm
\$325 000	Jones KT & Stemmann O	Australian Research Council	2009-2011	Discovery Project	Elucidation of the signalling pathways during fertilization in mammals
\$506 250	Jones KT & McLaughlin E.	National Health & Medical Research Council	2009-2011	Project Grant	The role of the Anaphase-Promoting Complex activator Cdh1 in mammalian oocytes and aneuploidy
\$ 80 000	Jones KT & McLaughlin E.	Hunter Medical Research Institute	2009-2010	Project Grant	Aging eggs: understanding the molecular mechanisms of declining female fertility
\$350 000	McLaughlin E, Jones KT 14 others	Australian Research Council	2010	LIEF Award	Laser microdissection microscopy system for cell and development biology
\$ 29 000	Jones KT, 3 others.	National Health & Medical Research Council	2010	Infrastructure Grant	EM-CCD Camera for high resolution imaging
\$275 000	Jones KT, 17 others.	Australian Research Council	2009	LIEF Award	Confocal Laser Scanning Microscopy for Live Cell Imaging
\$495 000	Aitken RJ and 30 others (Jones KT 16th)	Australian Research Council	2009	LIEF Award	An Advanced Mass Spectrometry Facility for Applications in Proteomics and Organic Chemistry

\$516 000	O'Bryan M & Jones KT	National Health & Medical Research Council	2008-2011	Project Grant	The function of gametogenetin in male fertility and embryogenesis
\$ 14 700	McLaughlin E & Jones KT	University of Newcastle	2008	Strategic Pilot Grant	Programmed mammalian oocyte activation: the production line model of primordial follicle development
\$141 970	Jones KT	National Health & Medical Research Council	2008	Infrastructure Grant	Olympus Fluoview FV1000-IX81 Microscope
\$ 23 225	Thorne R and 6 others (Jones KT 7th)	National Health & Medical Research Council	2008	Infrastructure Grant	Colibri high-performance LED illumination system for fluorescence live cell microscopy
£235 887	Jones KT	The Wellcome Trust	2004-2007	Project Grant	The roles of the Anaphase-Promoting Complex activators Cdc20 and Cdh1 during mouse oocyte maturation, activation and early embryonic cycles
£165 571	Jones KT	The Wellcome Trust	2003-2005	Project Grant	Calcium-mediated cell cycle progression in mammalian eggs
£267 000	Whitaker MJ, Cheek TR, Jones KT and McDougall A	The Wellcome Trust	2002-2005	Equipment Grant	A multiphoton microscope for the cell signalling group
£332 248	Whitaker MJ, Cheek TR, Jones KT and McDougall A	The Wellcome Trust	2002	Refurbishment Grant	Refurbishment of labs for the Cell Signalling Group.
£266 036	Jones KT, McDougall A, & O'Sullivan A.	Biotechnology and Biological Sciences Research Council	2001-2004	Project Grant	Purification of the sperm Ca^{2+} -releasing protein in ascidiella aspersa
£203 099	Jones KT	The Wellcome Trust	1999-2003	Project Grant	Elucidation of the signalling pathways at mammalian fertilization responsible for Ca^{2+} oscillations
£ 8 705	Jones KT	The Royal Society	1999-2000	Equipment Grant	
£229 000	Swann K & Jones KT	Medical Research Council	1997-2000	Project Grant	Mechanism of oocyte activation in mammals

Profile

2017-current. BBSRC, UK. Core Committee C (Genes, Development and STEM approaches to Biology) member.

2015-2016. BBSRC, UK Pool of Experts.

2011-2012. Research Evaluation Committee member for ERA 2012 Australia.

2009-2012. Australian Research Council's College of Experts (CoE) Biological Sciences and Biotechnology Panel.

Membership of the Faculty of 1000 Member of the Cell Biology Faculty.

Honorary Professorship Chinese Academies of Sciences Institute of Zoology 2009.

BingZhi honorary professorship at the CAS.

Editorial Board Membership

Developmental Biology. Editorial Board Member (since 2007).

Molecular Human Reproduction. Associate Editor (2013-2017).

Reproduction. Editorial Board Member (2002-2014).

Journal of Assisted Reproduction and Genetics. Editorial Board Member (2009-2012).

Human Reproduction Update. Editorial Board Member (2008-2012).

Biology of Reproduction. Board of Reviewing Editors (2005-2009).

Scientific Reports. Editorial Board Member (2013-2015).

Learned Society Management

2002-2006. Society for Reproduction and Fertility (UK) Director and Trustee.

Invited Conference Presentations

Conference	Location	Year	Invitation	Title of Presentation
World Congress of Reproductive Biology	Okinawa, Japan	2017	Speaker	Arresting oocytes in meiosis I: mechanisms to stop the creation of a bad egg
European Society of Human Reproduction and Embryology 33 rd Annual Meeting	Geneva, Switzerland	2017	Plenary Speaker	TBA
European Society of Human Reproduction and Embryology Special Interest Group	Milan, Italy	2017	Plenary Speaker	Biochemistry of oocyte postovulatory aging
Fertility 2017	Edinburgh, UK	2017	Plenary Speaker	Why is aneuploidy so common in oocytes and why does it increase with a woman's age
The Batsheva de Rothschild Seminar on Challenges and Frontiers in Mammalian Reproduction	Weizmann Institute, Israel	2016	Plenary Speaker	Aging and fertilization
Society for Reproduction and	Winchester, UK	2016	Speaker- Early Career	How to get your next job: from first postdoc to tenured post

Fertility			Researchers	
European Society of Human Reproduction and Embryology 32 nd Annual Meeting	Helsinki, Finland	2016	Plenary Speaker	Epigenetic basis of oocyte aneuploidy: mechanisms in meiosis I
Fondation des Treilles “Causes and consequences of aneuploidy”	Nice, France	2016	Plenary Speaker	Why doesn’t the SAC prevent aneuploidy in mammalian oocytes?
GDRi CNRS Meiosis a critical step for Reproduction	Paris, France	2014	Plenary Speaker	Spindle Assembly Checkpoint control in mouse oocytes during meiotic maturation
XXII Cytoskeletal Club	Vranovska Ves, Czech Republic	2014	Plenary Speaker	Spindle assembly checkpoint control in mouse oocytes during meiotic maturation
Society for Gynecological Investigation	Florence, Italy	2014	Plenary Speaker	Aneuploidy and maternal age, what goes wrong with meiosis?
Royal Society Edinburgh: Reproduction The Big Picture	Edinburgh, UK	2013	Plenary Speaker	Resuming meiosis
Wenner-Gren Foundations Symposium “Meiosis and chromosome segregation – a mammalian perspective	Stockholm, Sweden	2013	Plenary Speaker	Spindle assembly checkpoint control in mouse oocytes during meiotic maturation
Gordon Research Conference "Mammalian Gametogenesis & Embryogenesis"	Holderness NH, USA	2013	Plenary Speaker	Aneuploidy in aging mouse eggs, what goes wrong with meiosis?
EMBO Cell Biology of Early Mouse Development	Cambridge, UK	2012	Plenary speaker	Gamete-specific knockout of Fizzy-Related to examine its meiotic role in oocytes and sperm
Society for Reproductive Biology Annual Meeting	Gold Coast, Australia	2012	Plenary (SRB President’s Lecturer)	Origins of aneuploidy in eggs
ESHRE 7th Workshop on Mammalian Folliculogenesis and Oogenesis	Stresa, Italy	2012	Plenary speaker	Start and stop signals of oocyte meiotic maturation
Robinson Institute “Healthy Oocyte” meeting	Sydney, Australia	2012	Plenary speaker	Normal meiosis, division and fertilisation
EMBO Meiosis	Napoli, Italy	2011	Plenary speaker	Attachment, but not tension or position, mediated satisfaction of the SAC underlies the susceptibility of mammalian oocytes to chromosome segregation defects
1st Annual World Congress of Molecular & Cell Biology (CMCB-	Beijing, China	2011	Session chair and symposium speaker	The Anaphase-Promoting Complex in the control of mammalian meiosis

2011)				
2nd World Congress in Reproductive Biology	Cairns, Australia	2011	Symposium speaker	Cdh1/Fzr1 in the maintenance of prophase arrest and prevention of aneuploidy
17th Ovarian Workshop	Milwaukee, USA	2010	Plenary speaker	What is new in meiosis? The Role of Cdh1 in GV arrest and meiosis resumption
11th Hunter Cell Biology Meeting	Pokolbin, Australia	2010	Plenary speaker	APCCdh1 activation in meiosis
Society for Reproductive Biology	Sydney, Australia	2010	Symposium speaker	Cdh1: a cell cycle protein involved in female meiosis and prevention of aneuploidy
Scientists in Reproductive Technology	Gold Coast, Australia	2010	Plenary speaker	The causes of aneuploidy in ageing eggs
15th World Congress on IVF	Geneva, Switzerland	2009	Plenary speaker	Oocyte Maturation and Aneuploidy: the Molecular Protagonist is APC
Chinese Zoological Society	Chongqing, China	2009	Plenary speaker	The role of Anaphase-Promoting Complex in co-ordinating the meiotic divisions
Chinese Academy of Sciences, Institute of Zoology	CAS, Beijing, China	2009	Honorary Professorship induction	The role of Anaphase-Promoting Complex in co-ordinating the meiotic divisions
Gordon Research Conferences "Fertilization and Activation of Development"	Holderness NH, USA	2009	Plenary speaker	The role of Anaphase-Promoting Complex in co-ordinating the meiotic divisions
Les Treilles "Workshop on the meiotic divisions of eggs"	Les Treilles, France	2009	Plenary speaker	The role of Anaphase-Promoting Complex in co-ordinating the meiotic divisions
XIV International Workshop on the Development and Function of the Reproductive Organs	Rome, Italy	2008	Plenary speaker	Anaphase-Promoting Complex control of the oocyte to embryo transition
Society for Reproductive Biology	Melbourne, Australia	2008	Symposium speaker	The First Meiotic Division in Oocytes is the Nemesis of Fertility for Women in the 21st Century
10th Sydney University Reproduction Forum ANZAC Institute	Sydney, Australia	2008	Plenary speaker	The First Meiotic Division in Eggs: How Bad Can Things Get?
European Life Sciences Organisation	Dresden, Germany	2007	Session Chair and organiser	Meiosis
Gordon Research Conference "Mammalian Gametogenesis & Embryogenesis"	Connecticut, USA	2006	Plenary speaker	Female first meiosis requires separase-dependent inactivation of cyclin-dependent kinase 1 (CDK1)
Australian Physiological Society	Brisbane, Australia	2006	Symposium speaker	Mechanisms of egg activation and how calcium signalling affects embryonic development

International Symposium on "Cell Signaling in Gamete Activation: from Basic Research to ART".	Tokyo, Japan	2006	Session chair and symposium speaker	Establishment, maintenance and release from metaphase II arrest in mouse eggs.
Society for Experimental Biology	Canterbury, UK	2006	Symposium speaker	Molecular insights into the mechanism of metaphase II arrest in mammalian eggs
Fertility Society of Australia	Christchurch, New Zealand	2005	Symposium speaker	Calmodulin-dependent protein kinase II, and not protein kinase C, is sufficient for triggering cell cycle resumption in mammalian eggs.
British Society for Cell Biology	Canterbury, UK	2004	Symposium speaker	CDH1/Fizzy-related activity in mouse meiosis
Society for Reproductive Biology	Sydney, Australia	2004	Symposium speaker	Waking up the egg. How the sperm regulates exit out of the meiotic cell cycle
French Fertility Society	Tours, France	2002	Plenary speaker	Egg activation and calcium
CNRS Egg Activation Conference	Paris, France	2000	Plenary speaker	Role of calcium in egg activation in mammals.

Published work

H-index 39 (Google Scholar) 35 (Web of Science)
Citations 4162 (Google Scholar) 3210 (Web of Science)

Invited Commentaries, News & Views

1. Jones KT (2012) Topsy-turvy anaphase in mammalian eggs. **Current Biology** 22:R153-R155.
2. Lane SI & Jones KT (2011) Phosphorylation of Histone H3 in 1- and 2-cell embryos. **Cell Cycle** 10: 17-8.
3. Jones KT & Holt JE (2010) BubR1 highlights essential function of Cdh1 in mammalian oocytes. **Cell Cycle** 9: 1025-30.
4. Jones KT (2010) Cohesin and Cdk1: an anaphase barricade. **Nature Cell Biology** 12: 106-8.

Book Chapters

5. Lane SIR, Crouch S, & Jones KT (2016) Imaging chromosome separation in mouse oocytes by responsive 3D confocal timelapse microscopy. In, **Methods in Molecular Biology** (Ed, D. Stuart), in press.
6. Holt, JE, Lane SI & Jones KT (2013) The control of meiotic maturation in mammalian oocytes. In, **Current Topics in Developmental Biology: Gametogenesis** (Ed, P Wassarman). Volume 102, Chapter 7 pp207-26. Elsevier, Oxford UK.
7. Holt, JE, Lane SI & **Jones KT (2013)** Time-Lapse Epi-Fluorescence Imaging of Expressed cRNA to Cyclin B1 for Studying Meiosis I in Mouse Oocytes. In, **Methods in Molecular Biology** (Ed, H. Homer) Volume 957, Chapter 6, pp957-106. Springer, London, UK.

8. Jones KT, Lane SI & Holt, JE (2013) Start and stop signals of oocyte meiotic maturation. In, **Oogenesis** (Eds, G. Coticchio, D. Albertini, L. De Santis). Chapter 13 pp 183-194. Springer, London UK.
9. Jones KT (2011) Anaphase-Promoting Complex control in female mouse meiosis. In: **Cell Cycle in Development** (Ed JZ Kubiak). Series: Results and Problems in Cell Differentiation, Volume 53, pp343-363. Springer.
10. Swann K & Jones KT (2002) Membrane events in egg activation. In: **Fertilization** (D Hardy ed) Chapter 10 pp319-346. Academic Press, Orlando.

Review Articles

11. Collins JK & Jones KT (2016) DNA damage responses in mammalian oocytes. **Reproduction** 152:R15-22.
12. Jones KT & Lane SI (2013) Molecular causes of aneuploidy in mammalian eggs. **Development** 140: 3719-3730.
13. Jones KT & Lane SI (2012) Chromosomal, metabolic, environmental, and hormonal origins of aneuploidy in mammalian oocytes. **Experimental Cell Research** 318: 1394-1399.
14. Aitken RJ, Jones KT & Robertson SA (2012) Reactive Oxygen Species and Sperm Function--in Sickness and in Health. **Journal of Andrology** 33: 1096-1106.
15. Holt JE & Jones KT (2009) Control of chromosome division in the mammalian oocyte. **Molecular Human Reproduction** 15: 139-147.
16. Jones KT (2008) Meiosis in oocytes: predisposition to aneuploidy and its increased incidence with age. **Human Reproduction Update** 14:143-58.
17. Jones KT (2007) Intracellular calcium in the fertilization and development of mammalian eggs. **Clinical and Experimental Pharmacology and Physiology** 34:1084-9.
18. Madgwick S & Jones KT (2007) How eggs arrest at metaphase II: MPF stabilisation plus APC/C inhibition equals Cytostatic Factor. **Cell Division** 2:4 (1-7).
19. Jones KT (2005) Mammalian egg activation: from Ca²⁺ spiking to cell cycle progression. **Reproduction** 130:813-23. Meiosis Focus Issue. Invited Review.
20. Jones KT (2004) Turning it on and off: M-Phase Promoting Factor during meiotic maturation and fertilization. **Molecular Human Reproduction** 10:1-5.
21. Swann K, Parrington J & Jones KT (2001) Potential role of a sperm-derived phospholipase C in triggering the egg-activating Ca²⁺ signal at fertilization. **Reproduction** 122:839-46.
22. Nixon VL, McDougall A & Jones KT (2000) Ca²⁺ oscillations and the cell cycle at fertilisation of mammalian and ascidian eggs. **Biology of the Cell** 92:187-96. Fertilization Focus Issue.
23. Swann K, Parrington J & Jones KT (1998) On the search for the sperm oscillogen. **Molecular Human Reproduction** 4:1010-2. Invited Review.
24. Jones KT (1998) Ca²⁺ oscillations in the activation of the egg and development of the embryo in mammals. **International Journal of Developmental Biology** 42:1-10.
25. Jones KT (1998) Protein kinase C action at fertilization: overstated or undervalued? **Reviews of Reproduction** 3:7-12.
26. Carroll J, Jones KT & Whittingham DG (1996) The development of Ca²⁺ release mechanisms during oocyte maturation. **Reviews of Reproduction** 1:137-43.

Research Articles

1. Hamdan M, Jones KT, Cheong Y & Lane SIR (2016) The sensitivity of the DNA damage checkpoint prevents oocyte maturation in endometriosis. **Scientific Reports**, 6:36994.

2. Zarate-Garcia L, Lane SIR, Merriman JA & Jones KT (2016) FACS-sorted putative oogonial stem cells from the ovary are neither DDX4-positive nor germ cells. **Scientific Reports**, 6:27991.
3. Collins JK, Lane SIR, Merriman JA & Jones KT (2015) DNA damage induces a meiotic arrest in mouse oocytes mediated by the spindle assembly checkpoint. **Nature Communications**. 6:8553
4. Lane SIR & Jones KT (2014) Non-canonical function of spindle assembly checkpoint proteins after APC activation reduces aneuploidy in mouse oocytes. **Nature Communications**, 5:3444.
5. Yun Y, Holt JE, Lane SIR, McLaughlin EA, Merriman JA & Jones KT (2014) Reduced ability to recover from spindle disruption and loss of kinetochore spindle assembly checkpoint proteins in oocytes from aged mice. **Cell Cycle** 13:1938-47.
6. Holt JE, Pye V, Boon E, Stewart JL, García-Higuera I, Moreno S, Rodríguez R, Jones KT & McLaughlin EA (2014) The APC/C activator FZR1 is essential for meiotic prophase I in mice. **Development**, 141:1354-65.
7. Yun Y, Lane SIR & Jones KT (2014) Premature dyad separation in meiosis II is the major segregation error with maternal age in mouse oocytes. **Development**, 141:191-208.
8. Jamsai D, O'Connor A, DeBoer KD, Smith SJ, Clark B, Browne CM, Merriman JA, Yuen WS, Koopman P, Jones KT & O'Bryan MK (2013) Loss of GGN leads to pre-implantation embryonic lethality and compromised male meiotic DNA double strand break repair in the mouse. **PLoS One** 8(2): e56955.
9. Merriman JA, Lane SIR, Holt JE, Jennings PC, García-Higuera I, Moreno S, McLaughlin EA & Jones KT (2013) Reduced chromosome cohesion measured by interkinetochore distance is associated with aneuploidy even in oocytes from young mice. **Biology of Reproduction** 88(2):31.
10. Lord T, Nixon B, Jones KT, Aitken RJ. (2013) Melatonin prevents post-ovulatory oocyte aging in the mouse and extends the window for optimal fertilization in vitro. **Biology of Reproduction** 88(3):67.
11. Seah MKY, Holt JE, García-Higuera I, Moreno S & Jones KT (2012) The APC activator FZR1 is needed for preimplantation mouse embryo development. **Journal of Cell Science** 125:6030-7.
12. Holt JE, Lane SIR, Jennings P, García-Higuera I, Moreno S & Jones KT (2012) APC^{FZR1} prevents non-disjunction in mouse oocytes by controlling meiotic spindle assembly timing. **Molecular Biology of the Cell** 23:3970-81.
13. Yuen WS, Merriman JA, O'Bryan MK & Jones KT (2012) DNA double strand breaks but not interstrand crosslinks prevent progress through meiosis in fully grown mammalian oocytes. **PLoSOne** 7(8): e43875.
14. Lane SI, Yun Y & Jones KT (2012) Timing of anaphase-promoting complex activation in mouse oocytes is predicted by microtubule-kinetochore attachment but not by bivalent alignment or tension. **Development** 139:1947-55.
15. Merriman JA, Jennings PC, McLaughlin EA & Jones KT (2012) Effect of aging on superovulation efficiency, aneuploidy rates, and sister chromatid cohesion in mice aged up to 15-months. **Biology of Reproduction** 86(49):1-6.
16. Liu W, Yin J, Zhao G, Yun Y, Wu S, Jones KT & Lei A (2012) Differential regulation of cyclin B1 degradation between the first and second meiotic divisions of bovine oocytes. **Theriogenology** 78:1171-81.
17. Chang HY, Jennings PC, Weaver J, Verrills NM & Jones KT (2011) Essential role of protein phosphatase 2A in metaphase II arrest and activation of mouse eggs shown by okadaic acid, dominant negative PP2A and FTY720. **Journal of Biological Chemistry** 286:14705-12.
18. Holt JE, Tran SMT, Stewart JL, Minahan K, García-Higuera I, Moreno S & Jones KT (2011) The APC/C activator FZR1 co-ordinates the timing of meiotic resumption during prophase I arrest in mammalian oocytes. **Development** 138:905-13.

19. Jennings PC, Merriman JA, Beckett EL, Hansbro PM & Jones KT (2011) Increased zona pellucida thickness and meiotic spindle disruption in oocytes from cigarette smoking mice. **Human Reproduction** 26:878-84.
20. Jamsai D, Sarraj MA, Merriner DJ, Drummond AE, Jones KT, McLachlan RI & O'Bryan MK (2011) GGN1 in the testis and ovary and its variance within the Australian fertile and infertile male population, **International Journal of Andrology** 34:624-32.
21. Lane SI, Chang HY, Jennings PC & Jones KT (2010) The Aurora kinase inhibitor ZM447439 accelerates first meiosis in mouse oocytes by overriding the spindle assembly checkpoint. **Reproduction** 140:521-30.
22. Holt JE, Weaver J & Jones KT (2010) Spatial regulation of APC^{cdh1} induced cyclin B1 degradation maintains G2 arrest in mouse oocytes. **Development** 137:1297-304.
23. Chang HY, Minahan K, Merriman JA & Jones KT (2009) Calmodulin-dependent protein kinase gamma3(γ 3) mediates the cell cycle resumption of metaphase II eggs in mouse. **Development** 136:4077-81.
24. Nabti I, Reis A, Levasseur M, Stemmann O & Jones KT (2008) Securin and not CDK1 regulates sister chromatid disjunction during meiosis II in mouse eggs. **Developmental Biology** 321:379-86.
25. Reis A, Madgwick S, Chang HY, Nabti I, Levasseur M & Jones KT (2007) Prometaphase APC^{cdh1} activity prevents non-disjunction in mammalian oocytes. **Nature Cell Biology** 9:1192-8.
26. Jones KT & Swann K (2007) Composition of sea urchin egg homogenate determines its potency to inositol trisphosphate and cyclic ADPRibose induced Ca²⁺ release. **Biochemical & Biophysical Research Communications** 360:815-20.
27. Gardner AJ, Knott JG, Jones KT & Evans JP (2007) CaMKII can participate in but is not sufficient for the establishment of the membrane block to polyspermy in mouse eggs. **Journal of Cell Physiology** 212:275-80.
28. Levasseur M, Carroll M, Jones KT & McDougall A (2007) A novel mechanism controls the Ca²⁺ oscillations triggered by activation of ascidian eggs and has an absolute requirement for CDK1 activity. **Journal of Cell Science** 120:1763-71.
29. Madgwick S, Hansen DV, Levasseur M, Jackson PK & Jones KT (2006) Mouse Emi2 is required to enter meiosis II by reestablishing cyclin B1 during interkinesis. **Journal of Cell Biology** 174:791-801.
30. Gorr IH, Reis A, Boos D, Wuhr M, Madgwick S, Jones KT¹ & Stemmann O¹ (2006) Essential CDK1-inhibitory role for separase during meiosis I in vertebrate oocytes. **Nature Cell Biology** 8:1035-7 (¹joint communicating authors).
31. Reis A, Chang HY, Levasseur M & Jones KT (2006) APC^{cdh1} activity in mouse oocytes prevents entry into the first meiotic division. **Nature Cell Biology** 8:539-40.
32. Reis A, Levasseur M, Chang HY, Elliott DJ & Jones KT (2006) The CRY box: a second APC^{cdh1}-dependent degron in mammalian cdc20. **EMBO Reports** 7:1040-5.
33. Knott JG, Gardner AJ, Madgwick S, Jones KT, Williams CJ & Schultz RM (2006) Calmodulin-dependent protein kinase II triggers mouse egg activation and embryo development in the absence of Ca²⁺ oscillations. **Developmental Biology** 296:388-95.
34. Madgwick S, Levasseur M & Jones KT (2005) Calmodulin-dependent protein kinase II, and not protein kinase C, is sufficient for triggering cell-cycle resumption in mammalian eggs. **Journal of Cell Science** 118:3849-59.
35. Coward K, Ponting CP, Chang HY, Hibbitt O, Savolainen P, Jones KT & Parrington J (2005) Phospholipase C zeta, the trigger of egg activation in mammals, is present in a non-mammalian species. **Reproduction** 130:157-63.
36. Chang HY, Levasseur M, & Jones KT (2004) Degradation of APC^{cdc20} and APC^{cdh1} substrates during the second meiotic division in mouse eggs. **Journal of Cell Science** 117:6289-96. (cover illustration of this article)
37. Madgwick S, Nixon VL, Chang HY, Herbert M, Levasseur M & Jones KT (2004) Maintenance of sister chromatid attachment in mouse eggs through Maturation-Promoting Factor activity. **Developmental Biology** 275:68-81.

38. Venables JP, Dalglish C, Skitt L, Paronetto MP, Skitt L, Thornton JK, Saunders PT, Sette C, Jones KT & Elliott DJ (2004) SIAH1 targets the alternative splicing factor T-STAR for degradation by the proteasome. **Human Molecular Genetics** 13:1525-34.
39. Hyslop LA, Nixon VL, Levasseur M, Chapman F, Chiba K, McDougall A, Venables JP, Elliott DJ & Jones KT (2004) Ca²⁺-promoted cyclin B1 degradation in mouse oocytes requires the establishment of a metaphase arrest. **Developmental Biology** 269:206-19.
40. Carroll M, Levasseur M, Wood C, Whitaker, M, Jones KT & McDougall A (2003) Exploring the mechanism of the sperm-triggered calcium wave pacemaker in ascidian zygotes. **Journal of Cell Science** 116:4997-5004.
41. Soeller C, Jacobs MD, Donaldson PJ, Cannell MB, Jones KT & Ellis-Davies GCR (2003) Application of two-photon flash photolysis to reveal intercellular communication and intracellular Ca²⁺ movements. **Journal of Biomedical Optics** 8:418-27.
42. Nixon VL, Levasseur M, McDougall A & Jones KT (2002) Ca²⁺ oscillations promote APC/C-dependent cyclin B1 degradation during metaphase arrest and completion of meiosis in fertilizing mouse eggs. **Current Biology** 12:746-50.
43. Hyslop LA, Carroll M, Nixon VL, McDougall A & Jones KT (2001) Simultaneous measurement of intracellular nitric oxide and free calcium levels in chordate eggs demonstrates that nitric oxide has no role at fertilization. **Developmental Biology** 234:216-30.
44. Rice A, Parrington J, Jones KT & Swann K (2000) Mammalian sperm contain a Ca²⁺-sensitive phospholipase C activity that can generate InsP₃ from PIP₂ associated with intracellular organelles. **Developmental Biology** 228:125-35.
45. McDougall A, Levasseur M, O'Sullivan AJ & Jones KT (2000) Cell cycle-dependent repetitive Ca²⁺ waves induced by a cytosolic sperm extract in mature ascidian eggs mimic those observed at fertilization. **Journal of Cell Science** 113:3453-62.
46. Jones KT & Nixon, VL (2000) Sperm-induced Ca²⁺ oscillations in mouse oocytes and eggs can be mimicked by photolysis of caged inositol 1,4,5-trisphosphate: evidence to support a continuous low level production of inositol 1,4,5-trisphosphate during mammalian fertilization. **Developmental Biology** 225:1-12.
47. Stricker SA, Swann K, Jones KT & Fissore RA (2000) Injections of porcine extracts trigger fertilization-like calcium oscillations in oocytes of a marine worm. **Experimental Cell Research** 257:341-7.
48. Jones KT, Matsuda M, Parrington J, Katan M & Swann K (2000) Different Ca²⁺ releasing abilities of sperm extracts compared with tissue extracts and phospholipase C isoforms in sea urchin egg homogenate and mouse eggs. **Biochemical Journal** 346:743-9.
49. Parrington J, Jones KT, Lai A & Swann K (1999) The soluble sperm factor that causes Ca²⁺ release from sea-urchin (*Lytechinus pictus*) egg homogenates also triggers Ca²⁺ oscillations after injection into mouse eggs. **Biochemical Journal** 341:1-4.
50. Jones KT, Cruttwell C, Parrington J & Swann K (1998) A mammalian sperm cytosolic phospholipase C activity generates inositol trisphosphate and causes Ca²⁺ release in sea urchin egg homogenates. **FEBS Letters** 437:297-300.
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