

OOSIGHT PUBLICATIONS (by Date)

Date	Available	Citation	Application	Species
2021	No	Lensen S, Hammarberg K, Polyakov A, Wilkinson J, Whyte S, Peate M, Hickey M. How Common is Add-on Use and How Do Patients Decide Whether to Use Them? A National Survey of IVF Patients. <i>Human Reproduction</i> . 2021 May 04: [1p.]. doi: https://doi.org/10.1093/humrep/deab098 .	IVF	Human
2021	Yes	Mastrorocco A, Cacopardo L, Lamanna D, Temerario L, Brunetti G, Carluccio A, Robbe D, Dell' Aquila ME. Bioengineering Approaches to Improve In Vitro Performance of Prepubertal Lamb Oocytes. <i>Cells</i> . 2021 June 10; 10(6): 1458. doi: https://doi.org/10.3390/cells10061458 . Open Access Article	JIVET	Sheep
2021	No	Maeng G, Das S, Greising SM, Gong W, Singh BN, Kren S, Mickelson D, Skie E, Gafni O, Sorenson JR, Weaver CV, Garry DJ, Garry MG. Humanized Skeletal Muscle in MYF5/MYOD/MYF6-null Pig Embryos. <i>Nature Biomedical Engineering</i> . 2021 March 29: [1p.]. doi: https://doi.org/10.1038/s41551-021-00693-1 .	SCNT	Swine
2021	No	Petrushko MP, Buderatska NO, Gontar JV, Yurchuk TO. Morphological and Molecular Cytogenetic Characteristics of Giant Human Oocytes. <i>Cytology and Genetics</i> . 2021 April 19; 55: 132-137. doi: https://doi.org/10.3103/S0095452721020110 .	IVF	Human
2021	No	Shibarhara T, Fukasaku Y, Hayashi N, Miyazaki N, Kawato H, Minoura H. Early Rescue Oocyte Activation for Activation-Impaired Oocytes with No Second Polar Body Extrusion After Intracytoplasmic Sperm Injection. <i>J Assist Reprod Genet</i> . 2021 Feb. 22: [1p.]. doi: https://doi.org/10.1007/s10815-021-02089-1 .	ICSI	Human

Date	Available	Citation	Application	Species
2021	No	Sithole SM, Mphaphathi ML, Sehopela MD, Nedambale TL. 137 Comparison of Two In Vitro Maturation Media on Polar Body Extrusion of Cattle Oocytes. <i>Reproduction, Fertility and Development</i> . 2021 Jan. 08; 33(2): 176-177. doi: https://doi.org/10.1071/RDv33n2Ab137 .	IVM	Bovine
2021	Yes	Targosz A, Przystalka P, Wiaderkiewicz R, Mrugacz G. Semantic Segmentation of Human Oocyte Images Using Deep Neural Networks. <i>BioMed Eng Online</i> . 2021 April 23; 20(40). doi: https://doi.org/10.1186/s12938-021-00864-w . Open Access Article	IVF	Human
2021	Yes	Xu F, Lawson MS, Bean Y, Ting AY, Pejovic T, De Geest K, Moffitt M, Mitalipov SM, Xu J. Matrix-free 3D Culture Supports Human Follicular Development from the Unilaminar to the Antral Stage In Vitro Yielding Morphologically Normal Metaphase II Oocytes. <i>Human Reproduction</i> . 2021 March 03; 0:1-13. doi:10.1093/humrep/deab003. Open Access Article	IVM	Human
2021	Yes	Yovich JL, Conceicao JL, Wong J, Marjanovich N, Wicks R, Hinchliffe PM. Fertilization by ICSI Generates a Higher Number of Live Births than IVF in a Pioneer Facility Applying >90% Single Blastocyst-Stage Embryo Transfers. <i>GSC Biological and Pharmaceutical Sciences</i> . 2021 April 16; 15(1): 087-103. doi: https://dx.doi.org/10.30574/gscbps . Open Access Article	ICSI	Human
2020	Yes	Canosa S, Paschero C, Carosso A, Leoncini S, Mercaldo N, Gennarelli G, Benedetto C, Revelli A. Effect of a Combination of Myo-Inositol, Alpha-Lipoic Acid, and Folic Acid on Oocyte Morphology and Embryo Morphokinetics in non-PCOS Overweight/Obese Patients Undergoing IVF: A Pilot, Prospective, Randomized Study. <i>J. Clin. Med</i> . 2020 Sept. 12; 9 :2949. doi:10.3390/jcm9092949. Open Access Article	IVF	Human

Date	Available	Citation	Application	Species
2020	No	Chung YG, Seay M, Elsworth J, Redmond DE. Generation of Pluripotent Stem Cells using Somatic Cell Nuclear Transfer and Induced Pluripotent Somatic Cells from African Green Monkeys. <i>Stem Cells and Development</i> . 2020 July 26; 0(JA): [1p.]. doi: http://doi.org/10.1089/scd.2020.0059 .	SCNT	Monkey
2020	Yes	Gurbuz AS, Gode F, Kilic F, Gurbuz ZU, Deveer R. Severe Ovarian Hyperstimulation Syndrome and Gonadotropin-Releasing Hormone Agonist Trigger in Patients with Hypogonadotropic Hypogonadism: A Report of Two Cases. <i>Turk J Obstet Gynecol</i> . 2020; 17: 314-317. doi:10.4274/tjod.galenos.2020.65031. Open Access Article	IVF	Human
2020	No	Maeng G, Gong W, Das S, Yannopoulous D, Garry D, Garry MG. ETV2 Null Porcine Embryos Survive to Post-implantation Following Incomplete Enucleation. <i>Society for Reproduction and Fertility</i> . 2020 Jan. 01: [1p.]. doi: https://doi.org/10.1530/REP-19-0382 .	SCNT	Swine
2020	Yes	Ozturk S. Selection of Competent Oocytes by Morphological Criteria for Assisted Reproductive Technologies. <i>Mol Reprod Dev</i> . 2020 Aug. 22: 1-16. doi:10.1002/mrd.23420. Open Access Article	ICSI	Human
2020	No	Revelli A, Gennarelli G, Sestero M, Canosa S, Carosso A, Salvagno F, Pittatore G, Filippini C, Benedetto C. A Prospective Randomized trial comparing corifollitropin- α late-start (day 4) versus standard administration (day 2) in expected poor, normal, and high responders undergoing controlled ovarian stimulation for IVF. <i>J Assist Reprod Genet</i> . 2020 March 18: [1p.]. doi: https://doi.org/10.1007/s10815-020-01742-5 .	IVF	Human
2020	No	Sun S., Liao Z., Liu Z., Sun Q. (2021) Cloning of Monkeys by Somatic Cell Nuclear Transfer. In: Hu K. (eds) <i>Nuclear Reprogramming, Methods in Molecular Biology</i> , vol 2239. Humana, New York, NY. Doi: https://doi.org/10.1007/978-1-0716-1084-8_2	SCNT	Monkey

Date	Available	Citation	Application	Species
2020	No	Tang M, Popovic M, Stamatiadis P, Van der Jeught M, Coster RV, Deforce D, De Sutter P, Coucke P, Menten B, Stoop D, Boel A, Heindryckx B. Germline Nuclear Transfer in Mice May Rescue Poor Embryo Development Associated with Advanced Maternal Age and Early Embryo Arrest. <i>Hum Reprod.</i> 2020 July 2: [1p.]. doi: 10.1093/humrep/deaa112.	NT	Mouse
2020	Yes	Tilia L, Chapman M, Kilani S, Cooke S, Venetis C. Oocyte Meiotic Spindle Morphology is a Predictive Marker of Blastocyst Ploidy—a Prospective Cohort Study. <i>Fertil Steril.</i> 2020 Jan; 113(1): 105-111. doi:https://doi.org/10.1016/j.fertnstert.2019.08.070.	ICSI	Human
2019	No	Li W, Xu H, Yin Y, Shen W, Sun QY, Zhao M. In vitro Production of Canine Blastocysts. <i>Theriogenology.</i> 2019 Sept 1; 135: 164-168. doi:https://doi.org/10.1016/j.theriogenology.2019.06.016.	SCNT	Canine
2019	No	Mastrorocco A, Martino NA, Marzano G, Lacalandra GM, Ciani E, Roelen BAJ, Dell'Aquila ME, Minervini F. The Mycotoxin Beauvericin Induces Oocyte Mitochondrial Dysfunction and Affects Embryo Development in the Juvenile Sheep. <i>Molecular Reproduction Development.</i> 2019 Aug 13: [1p.]. doi: https://doi.org/10.1002/mrd.23256.	IVF	Sheep
2019	No	Mphaphathi ML, Nkadimeng M, Sithole SM, Sehopela SM, Ramukhithi FV, Tshabalala MM, Maqhashu A, O'Neill H, Nedambale TL. 178 Evaluation of Polar Body Extrusion Following Exposure of Cattle Oocytes to Different Concentrations of Ethylene Glycol Cryoprotectant. <i>Reproduction, Fertility and Development.</i> 2019 Dec. 2; 32(2): 217-217. doi:https://doi.org/10.1071/RDv32n2Ab178.	CPA Toxicity Test	Bovine
2019	No	Sagi I, De Pinho JC, Zuccaro MV, Atzmon C, Golan-Lev T, Yanuka O, Prosser R, Sadowy A, Perez G, Cabral T, Glaser B, Tsang SH, Goland R, Sauer MV, Lobo R, Benvenisty N, Egli D. Distinct Imprinting Signatures and Biased Differentiation of Human Androgenetic and Parthenogenetic Embryonic Stem Cells. <i>CellPress.</i> 2019 Sept 5; 25(3): 419-432. doi: https://doi.org/10.1016/j.stem .2019.06.013.	Genomic Imprinting	Human

Date	Available	Citation	Application	Species
2019	Yes	Zhao C, Shi J, Zhou R, Mai R, Luo L, He X, Ji H, Cai G, Liu D, Zheng E, Wu Z, Li Z. Effects of Enucleation Method on In Vitro and In Vivo Development Rate of Cloned Pig Embryos. <i>Front. Ari. Sci. Eng.</i> 2019 Feb 24; 6(1):61-65. doi: https://doi.org/10.15302/J-FASE-2018227 . Open Access Article	SCNT	Swine
2019	Yes	Zhen L, Yijun C, Zhaodi L, Yuting X, Yan W, Zhanyang W, Xiaoyu J, Yuzhuo L, Yong L, Yanhong N, Xiaotong Z, Chunyang L, Xinyan B, Mu-ming P, Hung-Chun C, Qiang S. Cloning of a Gene-Edited Macaque Monkey by Somatic Cell Nuclear Transfer. <i>National Science Review.</i> 2019 Jan 24: [1p.]. doi: https://doi.org/10.1093/nsr/nwz003 . Open Access Article	SCNT	Monkey
2018	No	Blakemore HJ, McCulloh DH, Grifo JA. Double duty?: impact of a delayed dose of gonadotropin-releasing hormone agonist (GnRH-A) after a dual trigger on oocytes retrieved and risk of ovarian hyperstimulation syndrome (OHSS). 2018 Oct 10; 110(4): 515. doi: https://doi.org/10.1016/j.fertnstert.2018.07.884 .	IVF	Human
2018	No	Gontar J, Ilyin I, Buderatskaya N, Fedota O, Parnitskaya O, Ilyina K, Kazachkova N, Kapustin E, Lavrynenko S, Lakhno Y. P-23 – The Structure and Location Gradation of Oocyte Meiotic Spindle and Its Relationship to Embryos' Quality and Euploidy. <i>Reproductive BioMedicine.</i> 2018 March 1; 36(1): e26. doi: https://doi.org/10.1016/j.rbmo.2017.10.062 .	ICSI	Human
2018	No	Gould RI, Griffin DK. Aneuploidy Status is Associated with the Length of Time That the Pronuclei are Visible. <i>Reproductive Biomedicine Online.</i> 2018 March; 36(1): e26-e27. doi: https://doi.org/10.1016/j.rbmo.2017.10.063 .	PGS	Human
2018	No	Jawdat RS, Lane N, Sengupta S. Investigation of the Relationship Between Embryo Ploidy, Nuclear Mitochondrial Mismatch and Embryo Morphology. 2018 March; 36(1): e25-e26. doi: https://doi.org/10.1016/j.rbmo.2017.10.061 .	PGD	Human

Date	Available	Citation	Application	Species
2018	Yes	Kang Y, Ali Z, Duan K, Si C, Wang Y, Zheng Y, He J, Yin Y, Zhao S, Niu B, Zhu X, Liu L, Xiang L, Zhang L, Niu Y, Ji W, Li T. Improving Cell Survival in Injected Embryos Allows Primed Pluripotent Stem Cells to Generate Chimeric Cynomolgus Monkeys. <i>Cell Reports</i> . 2018 Nov 27; 25(9): 2563-2567.e9. doi: https://doi.org/10.1016/j.celrep.2018.11.001 . Open Access Article	SCNT	Monkey
2018	Yes	Kanokwan Srirattana K, St.John JC. Additional Mitochondrial DNA Influences the Interactions Between the Nuclear and Mitochondrial Genomes in a Bovine Embryo Model of Nuclear Transfer. <i>Scientific Reports</i> . 2018 May 08; 8(7246): 1-17. doi:10.1038/s41598-018-25516-3. Open Access Article	SCNT	Bovine
2018	No	Li Z, Gu R, Lu X, Zhao S, Feng Y, Sun Y. Preincubation with Glutathione Ethyl Ester Improves the Developmental Competence of Vitrified Mouse Oocytes. <i>J Assist Reprod and Genet</i> . 2018 June 06: [1p.]. doi: https://doi.org/10.1007/s10815-018-1215-4 .	SCNT	Mouse
2018	Yes	Liu Z, Cai Y, Wang Y, Wang Z, Poo M, Sun Q. Cloning of Macaque Monkeys by Somatic Cell Nuclear Transfer. <i>Cell</i> (2018). 2018 Feb 8; 173: 1-7. doi: https://doi.org/10.1016/j.cell.2018.01.020 . Open Access Article	SCNT	Monkey
2018	No	Lopez-Bayghen E, Hernandez-Melchor D, Palafox-Gomez A, Lopez-Luna A, Herrera Cogco ED, Ramirez-Martinez L, Albores A. Effects of Endocrine Disruptors Over Progesterone Production in Human Granulosa Cells. <i>Fertility and Sterility</i> . 2018 Oct 10; 110(4): e314. doi: https://doi.org/10.1016/j.fertnstert.2018.07.886 .	IVF	Human
2018	No	Son YJ, Lee SE, Park YG, Jeong SG, Shin MY, Kim EY, Park SP. Fibroblast Growth Factor 10 Enhances the Developmental Efficiency of Somatic Cell Nuclear Transfer Embryos by Accelerating the Kinetics of Cleavage During In Vitro Maturation. <i>Cellular Reprogramming</i> . 2018 April 30; 0(0): [1p.]. doi: http://doi.org/10.1089/cell.2017.0050 .	ICSI	Swine

Date	Available	Citation	Application	Species
2018	No	Swearman H, Koustas G, Knight E, Liperis G, Grupen C, Sjoblom C. PH: the Silent Variable Significantly Impacting Meiotic Spindle Assembly in Mouse Oocytes. <i>Reproductive BioMedicine</i> . 2018 July 15: [1p.]. doi: https://doi.org/10.1016/j.rbmo.2018.06.022 .	SCNT	Mouse
2018	Yes	Tomari H, Honjo K, Kunitake K, Aramaki N, Kuhara S, Hidaka N, Nishimura K, Nagata Y, Horiuchi T. Meiotic spindle size is a strong indicator of human oocyte quality. <i>Reprod Med and Biol</i> . 2018 April 10; 00:1-7. doi: 10.1002/rmb2.12100. Open Access Article	ICSI	Human
2018	Yes	Xu J, Lawson MS, Mitalipov SM, Park BS, Xu F. Stage-specific modulation of antimüllerian hormone promotes primate follicular development and oocyte maturation in the matrix-free three-dimensional culture. <i>Fertility and Sterility</i> . 2018 November; 110(6): 1162-1172. doi: https://doi.org/10.1016/j.fertnstert.2018.07.006 .	IVF	Monkey
2017	Yes	Baykal B, Korkmaz C, Bahce M, Ercan CM, Ceyhan T. Giant Oocytes with Two Meiotic Spindles and Two Polar Bodies: Report of Two Cases. <i>Symbiosis</i> . 2017 May 31; 3(2): 1-3. Open Access Article	ICSI	Human
2017	Yes	Bertero A, Ritrovato F, Evangelista F, Stabile V, Fortina R, Ricci A, Revelli A, Vincenti L, Nervo T. Evaluation of equine oocyte developmental competence using polarized light microscopy. <i>Society for Reproduction and Fertility</i> . 2017 Mar 10: 1-39. doi: 10.1530/REP-17-0125.	IVM	Equine
2017	Yes	Garcia-Oro S, Rey MI, Rodriguez M, Durán A, Devesa R, Valverde D. Predictive Value of Spindle Retardance in Embryo Implantation Rate. <i>J Assist Reprod Genet</i> (2017). 2017 Mar 9: 1-9. doi:10.1007/s10815-017-0897-3.	IVF	Human
2017	No	Guo Yi, Liu W, Wang Y, Pan J, Liang S, Ruan J, Teng X. Polarization microscopy imaging for the identification of unfertilized oocytes after short-term insemination. <i>Fertility and Sterility</i> . 2017 June 7: [1p.]. doi: http://dx.doi.org/10.1016/j.fertnstert.2017.05.009 .	ICSI	Human

Date	Available	Citation	Application	Species
2017	Yes	Lee SE, Hyun H, Park MR, Choi Y, Son YJ, Park YG, Jeong SG, Shin MY, Ha HJ, Hong HS, Choi MK, Im GS, Park C, Kim EY, Park SP. Production of transgenic pig as an Alzheimer's disease model using a multi-cistronic vector system. PLoS One. 2017 June 6; 12(6): 1-20. doi: https://doi.org/10.1371/journal.pone.0177933 . Open Access Article	SCNT	Swine
2017	No	Park MJ, Kim EY, Kang MJ, Lee JB, Jeong CJ, Park SP. Investigation of the Developmental Potential and Developmental Kinetics of Bovine Parthenogenetic and Somatic Cell Nuclear Transfer Embryos Using a Time-Lapse Monitoring System. Cellular Reprogramming. 2017 June: [1p.]. doi: https://doi.org/10.1089/cell.2017.0003	SCNT	Bovine
2017	Yes	Revelli A, Canosa S, Bergandi L, Skorokhod OA, BIASONI V, Carosso A, Bertagna A, Maule M, Aldieri E, D'Eufemia MD, Evangelista F, Colacurci N, Benedetto C. Oocyte polarized light microscopy, assay of specific follicular fluid metabolites, and gene expression in cumulus cells as different approaches to predict fertilization efficiency after ICSI. Reproductive Biology and Endocrinology. 2017 June 15;15(47):1-12. doi: 10.1186/s12958-017-0265-2. Open Access Article	ICSI	Human
2017	No	Shin DH, Lee JE, Eum JH, Chung YG, Lee HT, Lee DR. Characterization of Tetraploid Somatic Cell Nuclear Transfer-Derived Human Embryonic Stem Cells. Dev. Reprod. 2017 Dec; 21(4): 425-434. doi: 10.12717/DR.2017.21.4.425. Epub 2017 Dec 31.	SCNT	Human
2017	Yes	Wei J, Antony J, Meng F, MacLean P, Rhind R, Laible G, Oback B. KDM4B-mediated reduction of H3K9me3 and H3K36me3 levels improves somatic cell reprogramming into pluripotency. Sci Reports. 2017 Aug 8; 7(7514): 1-14. doi:10.1038/s41598-017-06569-2. Open Access Article	SCNT	Mouse
2017	Yes	Young AN, Moyle-Heyrman G, Kim JJ, Burdette JE. Microphysiologic Systems in Female Reproductive Biology. Experimental Biology and Medicine. 2017 Mar 8; 0: 1-11. doi: http://doi.org/10.1177/1535370217697386	MPS	Human

Date	Available	Citation	Application	Species
2016	Yes	Briley SM, Jasti S, McCracken JM, Hornick JE, Fegley B, Pritchard MT, Duncan FE. Reproductive age-associated fibrosis in the stroma of the mammalian ovary. <i>Reproduction</i> . 29 June 2016; 152: 245-260. doi: 10.1530/REP-16-0129. Open Access Article	SCNT	Mouse
2016	No	Hyun H, Lee SE, Son YJ, Shin MY, Park YG, Eun-Young K, Park SP. Cell Synchronization by Rapamycin Improves the Developmental Competence of Porcine SCNT Embryos. <i>Cellular Reprogramming</i> . 2016 June; 18(3): 195-205. doi:10.1089/cell.2015.0090.	SCNT	Swine
2016	Yes	Lekola KPM, Ng'ambi JW, Nkadimeng M, Mphaphathi ML, Nedambale TL. Effects of various concentrations of gonadotropins and 17 β estradiol on the in vitro maturation of cattle oocytes selected using brilliant cresyl blue staining. <i>South African Journal of Animal Science</i> . 2016 Sept 30; 46(3). doi: http://dx.doi.org/10.4314/sajas.v46i3.12	SCNT	Bovine
2016	Yes	Ma H, O'Neil RC, Gutierrez NM, Hariharan M, Zhang Z, He Y, Cinnioglu C, Kayali R, Kang E, Lee Y, Hayama T, Koski A, Nery J, Castanon R, Tippner-Hedges R, Ahmed R, Van Dyken C, Li Y, Olson S, Battaglia D, Lee DM, Wu DH, Amato P, Wolf DP, Ecker JR, Mitalipov S. Functional Human Oocytes Generated by Transfer of Polar Body Genomes. <i>Cell Stem Cell</i> . 2016 Nov 10: [1p.]. doi: http://dx.doi.org/10.1016/j.stem.2016.10.001 .	IVF	Human
2016	Yes	Malenko GP, Komissarov AV, Stepanov Oi. Perspective of Zona-Free Method Use in Farm Animal Cloning. <i>Agricultural Biology</i> . 2015 December; 50(4):420-430. doi: 10.15389/agrobiology.2015.4.420eng. Open Access Article .	SCNT	Bovine
2016	Yes	Raubenheimer K. The Impact of Oocyte Meiotic Spindle and Automated Zona Pellucida Score and Sperm Chromatin Packaging on Fertilization and Pregnancy for Assisted Reproduction Techniques. Stellenbosch University. 2016 March: 1-127. Open Access Article .	IVF	Human

Date	Available	Citation	Application	Species
2016	Yes	Tilia L, Venetis C, Kilani S, Cooke S, Chapman M. Is oocyte meiotic spindle morphology associated with embryo ploidy? A prospective cohort study. <i>Fertil and Steril</i> . 2016 April; 105(4): 1085-1092.	IVF	Human
2015	No	Chung YG, Matoba S, Liu Y, Eum JH, Lu F, Jiang W, Lee JE, Sepilian V, Cha KY, Lee DR, Zhang Y. Histone Demethylase Expression Enhances Human Somatic Cell Nuclear Transfer Efficiency and Promotes Derivation of Pluripotent Stem Cells. <i>Cell Stem Cell</i> . 2015 Oct 28. pii: S1934-5909(15)00459-2. doi: 10.1016/j.stem.2015.10.001. [Epub ahead of print] PubMed PMID: 26526725.	SCNT	Human
2015	No	Durban M, Barragán M, Colodron M, Ferrer-Buitrago M, De Sutter P, Heindryck B, Vernaev V, Vassena R. PLC ζ disruption with complete fertilization failure in normozoospermia. <i>J Assist Reprod Genet</i> . 2015 May 19. [Epub ahead of print] PubMed PMID: 25986342	IVF	Human
2015	Yes	Larman MG, Gardner DK. Physiological aspects of oocyte vitrification. In <i>Vitrification in Assisted Reproduction</i> , 2nd edition, 2015 (eds. M. Tucker, J. Liebermann).	IVF	Human
2015	Yes	Lee W, Song K, Lee I, et al. Cloned foal derived from in vivo matured horse oocytes aspirated by the short disposable needle system. <i>Journal of Veterinary Science</i> . 2015; 16(4):509-516. doi:10.4142/jvs.2015.16.4.509.	SCNT	Equine
2015	No	Malenko GP, Komissarov AV, Stepanov OI, Kosovskii GY. Perspective of zona-free method use in farm animal cloning. <i>Agricultural Biology</i> , 2015. 50(4):420-430. Open Access Article	SCNT	Bovine
2015	Yes	Matsunaga R, Horiuchi T. ICSI with the Assistance of Meiotic Spindle Imaging for the Production of High Quality Embryos. <i>Journal of Mammalian Ova Research</i> 2015 32 (1), 3-10.	IVF	Human

Date	Available	Citation	Application	Species
2015	Yes	Park MJ, Lee SE, Kim EY, Lee JB, Jeong CJ, Park SP. Effective Oocyte Vitrification and Survival Techniques for Bovine Somatic Cell Nuclear Transfer. Cell Reprogram. 2015 Jun; 17(3): 199-210. doi: 10.1089/cell.2014.0072. Open Access Article	SCNT	Bovine
2015	Yes	Phillips S, Graham J, Coutinho A, Racicot M, Beauchamp C. Does egg vitrification displace the first polar body - meiotic spindle axis? Fertil Steril. 2015, Suppl. Sept;104(3):e192 (ASRM 2015 Poster abstract) Open Access Abstract	IVF	Human
2015	Yes	Stensen MH, Tanbo TG, Storeng R, Åbyholm T, Fedorcsak P. Fragmentation of human cleavage-stage embryos is related to the progression through meiotic and mitotic cell cycles. Fertil Steril. 2015 Feb;103(2):374-81.e4. doi: 10.1016/j.fertnstert.2014.10.031. Epub 2014 Nov 20. PubMed PMID: 25467039	IVF	Human
2015	Yes	Vermey BG, Chapman MG, Cooke S, Kilani S. The relationship between sperm head retardance using polarized light microscopy and clinical outcomes. Reprod Biomed Online. 2015 Jan;30(1):67-73. doi: 10.1016/j.rbmo.2014.09.011. Epub 2014 Oct 2. PubMed PMID: 25458851. Open Access Article	IVF	Human
2015	Yes	Wilmut I, Bai Y, Taylor J. Somatic cell nuclear transfer: origins, the present position and future opportunities. Philos Trans R Soc Lond B Biol Sci. 2015 Oct 19;370(1680). pii: 20140366. doi: 10.1098/rstb.2014.0366. Review. PubMed PMID: 26416677; PubMed Central PMCID: PMC4633995 Open Access Article	SCNT	Mammals
2015	Yes	Yu Y, Chang L, Zhao H, Li R, Fan Y, Qiao J. Chromosome microduplication in somatic cells decreases the genetic stability of human reprogrammed somatic cells and results in pluripotent stem cells. Sci Rep. 2015 May 12;5:10114. doi: 10.1038/srep10114. PubMed PMID: 25965553	SCNT	Human

Date	Available	Citation	Application	Species
2014	No	Bergandi L, Basso G, Evangelista F, Canosa S, Dalmasso P, Aldieri E, Revelli A, Benedetto C, Ghigo D. Inducible nitric oxide synthase and heme oxygenase 1 are expressed in human cumulus cells and may be used as biomarkers of oocyte competence. <i>Reprod Sci.</i> 2014 Nov;21(11):1370-7. doi: 10.1177/1933719114525268. Epub 2014 Mar 7. PubMed PMID: 24607880.	IVF	Human
2014	Yes	Greggains GD, Lister LM, Tuppen HA, Zhang Q, Needham LH, Prathalingam N, Hyslop LA, Craven L, Polanski Z, Murdoch AP, Turnbull DM, Herbert M. Therapeutic potential of somatic cell nuclear transfer for degenerative disease caused by mitochondrial DNA mutations. <i>Sci Rep.</i> 2014 Jan 24;4:3844. doi: 10.1038/srep03844. PubMed PMID: 24457623 Open Access Article	SCNT	Human
2014	Yes	Hou L, Ma F, Yang J, Riaz H, Wang Y, Wu W, Xia X, Ma Z, Zhou Y, Zhang L, Ying W, Xu D, Zuo B, Ren Z, Xiong Y. Effects of histone deacetylase inhibitor oxamflatin on in vitro porcine somatic cell nuclear transfer embryos. <i>Cell Reprogram.</i> 2014 Aug;16(4):253-65. doi: 10.1089/cell.2013.0058. Epub 2014 Jun 24. PubMed PMID: 24960409; PubMed Central PMCID: PMC4116115. Researchgate.net PDF	SCNT	Porcine
2014	Yes	Kilani S, Chapman MG. Meiotic spindle normality predicts live birth in patients with recurrent in vitro fertilization failure. <i>Fertil Steril.</i> 2014 Feb;101(2):403-6. doi: 10.1016/j.fertnstert.2013.10.045. Epub 2013 Dec 12. PubMed PMID: 24331832.	IVF	Human
2014	Yes	Parte S, Bhartiya D, Patel H, Daithankar V, Chauhan A, Zaveri K, Hinduja I. Dynamics associated with spontaneous differentiation of ovarian stem cells in vitro. <i>J Ovarian Res.</i> 2014 Feb 25;7:25. doi: 10.1186/1757-2215-7-25. PubMed PMID: 24568237; PubMed Central PMCID: PMC4234975. Open Access Article	Stem Cells	Human, Ovine

Date	Available	Citation	Application	Species
2014	Yes	Patel H, Chougule S, Chohan P, Shah N, Bhartiya D. An ideal oocyte activation protocol and embryo culture conditions for somatic cell nuclear transfer using sheep oocytes. <i>Indian J Exp Biol.</i> 2014 Oct;52(10):925-34. PubMed PMID: 25345241.	SCNT	Ovine
2014	Yes	Picinato MC, Martins WP, Giorgenon RC, Santos CK, Ferriani RA, Navarro PA, de Sá Rosa-e-Silva AC. The impact of examining the meiotic spindle by polarization microscopy on assisted reproduction outcomes. <i>Fertil Steril.</i> 2014 Feb;101(2):379-84. doi: 10.1016/j.fertnstert.2013.10.009. Epub 2013 Nov 9. PubMed PMID: 24220701.	IVF	Human
2014	Yes	Yamada M, Johannesson B, Sagi I, Burnett LC, Kort DH, Prosser RW, Paull D, Nestor MW, Freeby M, Greenberg E, Goland RS, Leibel RL, Solomon SL, Benvenisty N, Sauer MV, Egli D. Human oocytes reprogram adult somatic nuclei of a type 1 diabetic to diploid pluripotent stem cells. <i>Nature.</i> 2014 Jun 26;510(7506):533-6. doi: 10.1038/nature13287. Epub 2014 Apr 28. PubMed PMID: 24776804.	SCNT	Human
2013	No	Caamaño JN, Díez C, Trigal B, Muñoz M, Morató R, Martín D, Carrocera S, Mogas T, Gómez E. Assessment of meiotic spindle configuration and post-warming bovine oocyte viability using polarized light microscopy. <i>Reprod Domest Anim.</i> 2013 Jun;48(3):470-6. doi: 10.1111/rda.12111. Epub 2012 Oct 26. PubMed PMID: 23106568	IVF	Bovine
2013	Yes	Chatiza FP, Bartels P, Nedambale TL, Wagenaar GM. Sperm-egg interaction and functional assessment of springbok, impala and blesbok cauda epididymal spermatozoa using a domestic cattle in vitro fertilization system. <i>Anim Reprod Sci.</i> 2013 Dec;143(1-4):8-18. doi: 10.1016/j.anireprosci.2013.11.001. Epub 2013 Nov 7. PubMed PMID: 24284137. Researchgate.net PDF	IVF	Antelope

Date	Available	Citation	Application	Species
2013	Yes	Chaudhury K, Babu K N, Singh AK, Das S, Kumar A, Seal S. Mitigation of endometriosis using regenerative cerium oxide nanoparticles. <i>Nanomedicine</i> . 2013 Apr;9(3):439-48. doi: 10.1016/j.nano.2012.08.001. Epub 2012 Sep 5. PubMed PMID: 22960424. Researchgate.net PDF	Disease Models	Mouse
2013	Yes	Chen G, Gao P, Huang H, Wang Z, Tao C, Chen L, Wang P. A novel multi-cue based image fusion method combining multi-principle microscopy images towards Nuclear transfer technology. <i>Proceedings on 7th IEE International Conference on Nano/Molecular Medicine and Engineering (NANOMED)</i> . Nov. 2013. pp 11-15.	Technical	N/A
2013	Yes	de los Santos MJ, García-Láez V, Beltrán-Torregrosa D, Horcajadas JA, Martínez-Conejero JA, Esteban FJ, Pellicer A, Labarta E. Hormonal and molecular characterization of follicular fluid, cumulus cells and oocytes from pre-ovulatory follicles in stimulated and unstimulated cycles. <i>Hum Reprod</i> . 2012 Jun;27(6):1596-605. doi: 10.1093/humrep/des082. Epub 2012 Mar 26. PubMed PMID: 22451503. Open Access Article	IVF	Human
2013	Yes	Kim EY, Song DH, Park MJ, Park HY, Lee SE, Choi HY, Moon JJ, Kim YH, Mun SH, Oh CE, Ko MS, Lee DS, Riu KZ, Park SP. Post-death cloning of endangered Jeju black cattle (Korean native cattle): fertility and serum chemistry in a cloned bull and cow and their offspring. <i>J Reprod Dev</i> . 2013 Dec 17;59(6):536-43. Epub 2013 Aug 15. PubMed PMID: 23955237; PubMed Central PMCID: PMC3934153. Open Source Article	SCNT	Bovine
2013	Yes	Koike-Tani M, Tani T, Mehta SB, Verma A, Oldenbourg R. Polarized light microscopy in reproductive and developmental biology. <i>Mol Reprod Dev</i> . 2013 Jul 30. doi: 10.1002/mrd.22221. [Epub ahead of print] PubMed PMID: 23901032. Open Access Article	General Repro & Dev Biology	Multiple

Date	Available	Citation	Application	Species
2013	Yes	Mehta SB, Shribak M, Oldenbourg R. Polarized light imaging of birefringence and diattenuation at high resolution and high sensitivity. <i>J Opt.</i> 2013 Sep 1;15(9). doi: 10.1088/2040-8978/15/9/094007. PubMed PMID: 24273640; PubMed Central PMCID: PMC3834771. Open Access Article	Technical	N/A
2013	Yes	Oldenbourg R. Polarized light microscopy: principles and practice. <i>Cold Spring Harb Protoc.</i> 2013 Nov 1;2013(11). pii: pdb.top078600. doi: 10.1101/pdb.top078600. PubMed PMID: 24184765.	Technical	N/A
2013	No	Song WY, Xin ZM, Jin HX, Peng ZF, Chen XM, Shi SL, Dai SJ, Sun YP. Effects of frozen timing on the spindle density, the angle between the polar body and spindle, and embryo development of intracytoplasmic sperm injection in mouse mature oocytes. <i>Cell Biol Int.</i> 2013 Jun;37(6):561-7. doi: 10.1002/cbin.10073. Epub 2013 Mar 13. PubMed PMID: 23404681.	IVF	Mouse
2013	Yes	Tachibana M, Amato P, Sparman M, Gutierrez NM, Tippner-Hedges R, Ma H, Kang E, Fulati A, Lee HS, Sritanaudomchai H, Masterson K, Larson J, Eaton D, Sadler-Fredd K, Battaglia D, Lee D, Wu D, Jensen J, Patton P, Gokhale S, Stouffer RL, Wolf D, Mitalipov S. Human embryonic stem cells derived by somatic cell nuclear transfer. <i>Cell.</i> 2013 Jun 6;153(6):1228-38. doi: 10.1016/j.cell.2013.05.006. Epub 2013 May 15. PubMed PMID: 23683578; PubMed Central PMCID: PMC3772789 Open Access Article	SCNT	Human
2013	Yes	Tachibana M, Amato P, Sparman M, Woodward J, Sanchis DM, Ma H, Gutierrez NM, Tippner-Hedges R, Kang E, Lee HS, Ramsey C, Masterson K, Battaglia D, Lee D, Wu D, Jensen J, Patton P, Gokhale S, Stouffer R, Mitalipov S. Towards germline gene therapy of inherited mitochondrial diseases. <i>Nature.</i> 2013 Jan 31;493(7434):627-31. doi: 10.1038/nature11647. Epub 2012 Oct 24. PubMed PMID:23103867; PubMed Central PMCID: PMC3561483. Open Access Article	SCNT	

Date	Available	Citation	Application	Species
2013	No	Yu Y, Yan J, Zhang Q, Yan L, Li M, Zhou Q, Qiao J. Successful reprogramming of differentiated cells by somatic cell nuclear transfer, using in vitro-matured oocytes with a modified activation method. <i>J Tissue Eng Regen Med.</i> 2013 Nov;7(11):855-63. doi: 10.1002/term.1476. Epub 2012 May 15. PubMed PMID: 22589148	SCNT	Human
2012	No	Chew TG, Lorthongpanich C, Ang WX, Knowles BB, Solter D. Symmetric cell division of the mouse zygote requires an actin network. <i>Cytoskeleton (Hoboken).</i> 2012 Dec;69(12):1040-6. doi: 10.1002/cm.21062. Epub 2012 Aug 28. PubMed PMID: 22887777.	Dev Biology	Mouse
2012	No	Cristina Magli M, Capoti A, Resta S, Stanghellini I, Ferraretti AP, Gianaroli L. Prolonged absence of meiotic spindles by birefringence imaging negatively affects normal fertilization and embryo development. <i>Reprod Biomed Online.</i> 2011 Dec;23(6):747-54. doi: 10.1016/j.rbmo.2011.07.019. Epub 2011 Sep 5. PubMed PMID: 22056633.	IVF	Human
2012	Yes	de los Santos MJ, García-Laez V, Beltrán D, Labarta E, Zuzuarregui JL, Alamá P, Gámiz P, Crespo J, Bosch E, Pellicer A. The follicular hormonal profile in low-responder patients undergoing unstimulated cycles: Is it hypoandrogenic? <i>Hum Reprod.</i> 2013 Jan;28(1):224-9. doi: 10.1093/humrep/des349. Epub 2012 Sep 27. PubMed PMID: 23019297 Open Access Article	IVF	Human
2012	Yes	Desai N, Abdelhafez F, Calabro A, Falcone T. Three dimensional culture of fresh and vitrified mouse pre-antral follicles in a hyaluronan-based hydrogel: a preliminary investigation of a novel biomaterial for in vitro follicle maturation. <i>Reprod Biol Endocrinol.</i> 2012 Jun 13;10(1):29. doi: 10.1186/1477-7827-10-29. PubMed PMID: 22513305; PubMed Central PMCID: PMC3474165 Open Access Article	IVF	Mouse

Date	Available	Citation	Application	Species
2012	No	Ghosh S, Chattopadhyay R, Bose G, Ganesh A, Das S, Chakravarty BN. Selection of birefringent spermatozoa under Polscope: effect on intracytoplasmic sperm injection outcome. <i>Andrologia</i> . 2012 May;44 Suppl 1:734-8. doi: 10.1111/j.1439-0272.2011.01258.x. Epub 2012 Feb 28. PubMed PMID: 22369032.	IVF	Human
2012	No	Hlinka D, Lazarovská S, Rutarová J, Pichlerová M, Rezáčová J, Dudás M. [Non-invasive monitoring of the timing of early embryo cleavages—objectively measurable predictor of human embryo viability]. <i>Ceska Gynekol</i> . 2012 Feb;77(1):52-7. Slovak. PubMed PMID: 22536641.	IVF	Human
2012	No	Jamal W, Vélez MP, Zini A, Phillips S, Hemmings R, Kadoch IJ. Surgically retrieved spermatozoa versus ejaculated spermatozoa in modified natural IVF-ICSI cycles. <i>Reprod Biomed Online</i> . 2012 Sep;25(3):242-7. doi:10.1016/j.rbmo.2012.06.003. Epub 2012 Jun 19. PubMed PMID: 22818097.	IVF	Human
2012	Yes	Kawamura K, Chen Y, Shu Y, Cheng Y, Qiao J, Behr B, Pera RA, Hsueh AJ. Promotion of human early embryonic development and blastocyst outgrowth in vitro using autocrine/paracrine growth factors. <i>PLoS One</i> . 2012;7(11):e49328. doi: 10.1371/journal.pone.0049328. Epub 2012 Nov 12. PubMed PMID: 23152897; PubMed Central PMCID: PMC3495911. Open Access Article	IVF	Human
2012	Yes	Kim EY, Park MJ, Park HY, Noh EJ, Noh EH, Park KS, Lee JB, Jeong CJ, Riu KZ, Park SP. Improved cloning efficiency and developmental potential in bovine somatic cell nuclear transfer with the oosight imaging system. <i>Cell Reprogram</i> . 2012 Aug;14(4):305-11. doi: 10.1089/cell.2011.0103. Epub 2012 Jul 20. PubMed PMID: 22816525; PubMed Central PMCID: PMC3411338. Open Access Article	SCNT	Bovine

Date	Available	Citation	Application	Species
2012	Yes	Kim Y, Kim EY, Seo YM, Yoon TK, Lee WS, Lee KA. Function of the pentose phosphate pathway and its key enzyme, transketolase, in the regulation of the meiotic cell cycle in oocytes. Clin Exp Reprod Med. 2012 Jun;39(2):58-67. doi: 10.5653/term.2012.39.2.58. Epub 2012 Jun 30. PubMed PMID: 22816071; PubMed Central PMCID: PMC3398118. Open Access Article	Dev Biology	Mouse
2012	Yes	Lee HS, Ma H, Juanes RC, Tachibana M, Sparman M, Woodward J, Ramsey C, Xu J, Kang EJ, Amato P, Mair G, Steinborn R, Mitalipov S. Rapid mitochondrial DNA segregation in primate preimplantation embryos precedes somatic and germline bottleneck. Cell Rep. 2012 May 31;1(5):506-15. PubMed PMID: 22701816; PubMed Central PMCID: PMC3372871. Open Access Article	IVF	Primate
2012	Yes	Meseguer M, Kruhne U, Laursen S. Full in vitro fertilization laboratory mechanization: toward robotic assisted reproduction? Fertil Steril. 2012 Jun;97(6):1277-86. doi: 10.1016/j.fertnstert.2012.03.013. Epub 2012 Apr 3. PubMed PMID: 22480821. Have	IVF	Human
2012	Yes	Minasi MG, Fabozzi G, Casciani V, Ferrero S, Litwicka K, Greco E. Efficiency of slush nitrogen vitrification of human oocytes vitrified with or without cumulus cells in relation to survival rate and meiotic spindle competence. Fertil Steril. 2012 May;97(5):1220-5. doi: 10.1016/j.fertnstert.2012.02.022. Epub 2012 Mar 7. PubMed PMID: 22401811. Have	IVF	Human
2012	Yes	Molinari E, Evangelista F, Racca C, Cagnazzo C, Revelli A. Polarized light microscopy-detectable structures of human oocytes and embryos are related to the likelihood of conception in IVF. J Assist Reprod Genet. 2012 Oct;29(10):1117-22. doi: 10.1007/s10815-012-9840-9. Epub 2012 Aug 16. PubMed PMID: 22895811; PubMed Central PMCID: PMC3492585. Open Access Article	IVF	Human

Date	Available	Citation	Application	Species
2012	Yes	Park MJ. 2012. Production of Cloned Jeju Black Cattle (Korean Cattle) Using Oosight Imaging System. Master's Thesis. Department of Biology Graduate School Jeju National University Open Access Article	SCNT	Bovine
2012	Yes	Rajani S, Chattopadhyay R, Goswami SK, Ghosh S, Sharma S, Chakravarty B. Assessment of oocyte quality in polycystic ovarian syndrome and endometriosis by spindle imaging and reactive oxygen species levels in follicular fluid and its relationship with IVF-ET outcome. <i>J Hum Reprod Sci.</i> 2012 May;5(2):187-93. doi: 10.4103/0974-1208.101020. PubMed PMID: 23162358; PubMed Central PMCID: PMC3493834 Open Access Article	IVF	Human
2012	No	Tian J, Song J, Li H, Yang D, Li X, Ouyang H, Lai L. Effect of donor cell type on nuclear remodelling in rabbit somatic cell nuclear transfer embryos. <i>Reprod Domest Anim.</i> 2012 Aug;47(4):544-52. doi: 10.1111/j.1439-0531.2011.01915.x. Epub 2011 Oct 29. PubMed PMID: 22034900.	SCNT	Rabbit
2012	No	Zhang TY, Dai JJ, Wu CF, Gu XL, Liu L, Wu ZQ, Xie YN, Wu B, Chen HL, Li Y, Chen XJ, Zhang DF. Positive effects of treatment of donor cells with aphidicolin on the preimplantation development of somatic cell nuclear transfer embryos in Chinese Bama mini-pig (<i>Sus Scrofa</i>). <i>Anim Sci J.</i> 2012 Feb;83(2):103-10. doi: 10.1111/j.1740-0929.2011.00926.x. Epub 2011 Jul 26. PubMed PMID: 22339690.	SCNT	Porcine
2011	Yes	Caamaño JN, Maside C, Gil MA, Muñoz M, Cuello C, Díez C, Sánchez-Osorio JR, Martín D, Gomis J, Vazquez JM, Roca J, Carrocera S, Martinez EA, Gómez E. Use of polarized light microscopy in porcine reproductive technologies. <i>Theriogenology.</i> 2011 Sep 1;76(4):669-77. doi: 10.1016/j.theriogenology.2011.03.020. Epub 2011 May 23. PubMed PMID: 21601264	IVF	Porcine

Date	Available	Citation	Application	Species
2011	Yes	Costa-Borges N, Gonzalez S, Santaló J, Ibáñez E. Effect of the enucleation procedure on the reprogramming potential and developmental capacity of mouse cloned embryos treated with valproic acid. <i>Reproduction</i> . 2011 Jun;141(6):789-800. doi: 10.1530/REP-10-0455. Epub 2011 Mar 28. PubMed PMID: 21444624. Open Access Article	SCNT	Mouse
2011	No	Cristina Magli M, Capoti A, Resta S, Stanghellini I, Ferraretti AP, Gianaroli L. Prolonged absence of meiotic spindles by birefringence imaging negatively affects normal fertilization and embryo development. <i>Reprod Biomed Online</i> . 2011 Dec;23(6):747-54. doi: 10.1016/j.rbmo.2011.07.019. Epub 2011 Sep 5. PubMed PMID: 22056633	IVF	Human
2011	Yes	Desai N, AbdelHafez F, Ali MY, Sayed EH, Abu-Alhassan AM, Falcone T, Goldfarb J. Mouse ovarian follicle cryopreservation using vitrification or slow programmed cooling: assessment of in vitro development, maturation, ultra-structure and meiotic spindle organization. <i>J Obstet Gynaecol Res</i> . 2011 Jan;37(1):1-12. doi: 10.1111/j.1447-0756.2010.01215.x. PubMed PMID: 20731766. Open Access Article	IVF	Mouse
2011	Yes	Heindryckx B, De Gheselle S, Lierman S, Gerris J, De Sutter P. Efficiency of polarized microscopy as a predictive tool for human oocyte quality. <i>Hum Reprod</i> . 2011 Mar;26(3):535-44. doi: 10.1093/humrep/deq376. Epub 2011 Jan 12. PubMed PMID: 21233107. Open Access Article	IVF	Human
2011	Yes	Heindryckx B, Lierman S, Combelles CM, Cuvelier CA, Gerris J, De Sutter P. Aberrant spindle structures responsible for recurrent human metaphase I oocyte arrest with attempts to induce meiosis artificially. <i>Hum Reprod</i> . 2011 Apr;26(4):791-800. doi: 10.1093/humrep/deq400. Epub 2011 Jan 17. PubMed PMID: 21242149. Open Access Article	IVF	Human

Date	Available	Citation	Application	Species
2011	No	Iwayama H, Hochi S, Yamashita M. Birefringence parameter available for quantitative analysis of human zona hardness. <i>Zygote</i> . 2011 Nov;19(4):323-9. doi: 10.1017/S0967199410000389. Epub 2010 Jul 27. PubMed PMID: 20663237.	IVF	Human
2011	Yes	Jiang Y, Kelly R, Peters A, Fulka H, Dickinson A, Mitchell DA, St John JC. Interspecies somatic cell nuclear transfer is dependent on compatible mitochondrial DNA and reprogramming factors. <i>PLoS One</i> . 2011 Apr 27;6(4):e14805. doi: 10.1371/journal.pone.0014805. PubMed PMID: 21556135; PubMed Central PMCID: PMC3083390. Open Access Article	SCNT	Mouse Porcine
2011	Yes	Kilani S, Chapman M. The Use of Polarized Light Microscopy in IVF. <i>Expert Review of Obstetrics & Gynecology</i> . 2011 May; 6(3): 241-246. doi:10.1586/eog.11.17. Open Access Article	ICSI	Human
2011	Yes	Kilani S, Cooke S, Tilia L, Chapman M. Does meiotic spindle normality predict improved blastocyst development, implantation and live birth rates? <i>Fertil Steril</i> . 2011 Aug;96(2):389-93. doi: 10.1016/j.fertnstert.2011.05.023. Epub 2011 Jun 8. PubMed PMID: 21645892.	IVF	Human
2011	Yes	Kim E, Yoon SJ, Kim EY, Kim Y, Lee HS, Kim KH, Lee KA. Function of COP9 signalosome in regulation of mouse oocytes meiosis by regulating MPF activity and securing degradation. <i>PLoS One</i> . 2011;6(10):e25870. doi: 10.1371/journal.pone.0025870. Epub 2011 Oct 3. PubMed PMID: 21991377; PubMed Central PMCID: PMC3185060. Open Access Article	Dev Biology	Mouse
2011	Yes	Kim KH, Kim EY, Kim Y, Kim E, Lee HS, Yoon SY, Lee KA. Gas6 downregulation impaired cytoplasmic maturation and pronuclear formation independent to the MPF activity. <i>PLoS One</i> . 2011;6(8):e23304. doi: 10.1371/journal.pone.0023304. Epub 2011 Aug 5. PubMed PMID: 21850267; PubMed Central PMCID: PMC3151302. Open Access Article	Dev Biology	Mouse

Date	Available	Citation	Application	Species
2011	Yes	Martínez-Burgos M, Herrero L, Megías D, Salvanes R, Montoya MC, Cobo AC, Garcia-Velasco JA. Vitrification versus slow freezing of oocytes: effects on morphologic appearance, meiotic spindle configuration, and DNA damage. <i>Fertil Steril</i> . 2011 Jan;95(1):374-7. doi: 10.1016/j.fertnstert.2010.07.1089. Epub 2010 Sep 9. PubMed PMID: 20828688.	IVF	Human
2011	Yes	Noggle S, Fung HL, Gore A, Martinez H, Satriani KC, Prosser R, Oum K, Paull D, Druckenmiller S, Freeby M, Greenberg E, Zhang K, Goland R, Sauer MV, Leibel RL, Egli D. Human oocytes reprogram somatic cells to a pluripotent state. <i>Nature</i> . 2011 Oct 5;478(7367):70-5. doi: 10.1038/nature10397. PubMed PMID: 21979046	SCNT	Human
2011	Yes	Sakai C, Hoshino Y, Sato Y, Sato E. Evaluation of maturation competence of metaphase II oocytes in mice based on the distance between pericentriolar materials of meiotic spindle: distance of PCM during oocyte maturation. <i>J Assist Reprod Genet</i> . 2011 Feb;28(2):157-66. doi: 10.1007/s10815-010-9496-2. Epub 2010 Nov 17. PubMed PMID: 21082234; PubMed Central PMCID: PMC3059522. Open Access Article	IVF	Mouse
2011	Yes	Shribak M. Complete polarization state generator with one variable retarder and its application for fast and sensitive measuring of two-dimensional birefringence distribution. <i>J Opt Soc Am A Opt Image Sci Vis</i> . 2011 Mar 1;28(3):410-9. doi: 10.1364/JOSAA.28.000410. PubMed PMID: 21383823; PubMed Central PMCID: PMC3059986. Open Access Article	Technical	N/A
2011	Yes	Zini A, Lefebvre J, Kornitzer G, Bissonnette F, Kadoch IJ, Dean N, Phillips S. Anti-sperm antibody levels are not related to fertilization or pregnancy rates after IVF or IVF/ICSI. <i>J Reprod Immunol</i> . 2011 Jan;88(1):80-4. doi: 10.1016/j.jri.2010.09.002. Epub 2010 Dec 15. PubMed PMID: 21111486. Researchgate.net PDF	IVF	Human

Date	Available	Citation	Application	Species
2010	Yes	Barrett SL, Shea LD, Woodruff TK. Noninvasive index of cryorecovery and growth potential for human follicles in vitro. <i>Biol Reprod.</i> 2010 Jun;82(6):1180-9. doi: 10.1095/biolreprod.109.082933. Epub 2010 Mar 3. PubMed PMID: 20200211; PubMed Central PMCID: PMC2874500. Open Access Article	IVF	Human
2010	Yes	Chang CC, Sung LY, Lin CJ, Kort HI, Yang X, Tian XC, Nagy ZP. The oocyte spindle is preserved by 1,2-propanediol during slow freezing. <i>Fertil Steril.</i> 2010 Mar 15;93(5):1430-9. doi: 10.1016/j.fertnstert.2009.01.106. Epub 2009 Mar 26. PubMed PMID: 19324351. Open Access Article	IVF	Human
2010	Yes	Christopikou D, Karamalegos C, Doriza S, Argyrou M, Sisi P, Davies S, Mastrominas M. Spindle and chromosome configurations of human oocytes matured in vitro in two different culture media. <i>Reprod Biomed Online.</i> 2010 May;20(5):639-48. doi: 10.1016/j.rbmo.2010.02.005. Epub 2010 Feb 10. PubMed PMID: 20347392. Open Access Article	IVF	Human
2010	Yes	Coticchio G, Sciajno R, Hutt K, Bromfield J, Borini A, Albertini DF. Comparative analysis of the metaphase II spindle of human oocytes through polarized light and high-performance confocal microscopy. <i>Fertil Steril.</i> 2010 Apr;93(6):2056-64. doi: 10.1016/j.fertnstert.2008.12.011. Epub 2009 Feb 24. PubMed PMID: 19243751.	IVF	Human
2010	Yes	Craven L, Tuppen HA, Greggains GD, Harbottle SJ, Murphy JL, Cree LM, Murdoch AP, Chinnery PF, Taylor RW, Lightowlers RN, Herbert M, Turnbull DM. Pronuclear transfer in human embryos to prevent transmission of mitochondrial DNA disease. <i>Nature.</i> 2010 May 6;465(7294):82-5. doi: 10.1038/nature08958. Epub 2010 Apr 14. PubMed PMID: 20393463; PubMed Central PMCID: PMC2875160. Open Access Article	SCNT	Human

Date	Available	Citation	Application	Species
2010	Yes	Ganesh A, Chattopadhyay R, Narendra Babu K, Chakravarty B, Chaudhury K. Analysis of spindle characteristics and embryo quality in mice stimulated with letrozole using Polscope imaging. Fertil Steril. 2010 Mar 15;93(5):1477-81. doi: 10.1016/j.fertnstert.2009.04.045. Epub 2009 Jul 30. PubMed PMID: 19646690.	IVF	Mouse
2010	Yes	Kilani S, Cooke S, Chapman M. Time Course of Meiotic Spindle Development in MII Oocytes. Zygote. 2010 Jan 22; 19:55-62. doi:10.1017/S0967199410000110. Open Access Article	ICSI	Human
2010	Yes	Lee HS, Kim EY, Kim KH, Moon J, Park KS, Kim KS, Lee KA. Obox4 critically regulates cAMP-dependent meiotic arrest and MI-MII transition in oocytes. FASEB J. 2010 Jul;24(7):2314-24. doi: 10.1096/fj.09-147314. Epub 2010 Feb 12. PubMed PMID: 20154267. Open Access Article	Dev Biology	Mouse
2010	Yes	Molinari E, Revelli A, Racca C, Delle Piane L, Massobrio M. Slow-freezing-induced changes of birefringent structures in human oocytes are related to responsiveness to ovulation induction. Reprod Biomed Online. 2010 May;20(5):619-24. doi: 10.1016/j.rbmo.2010.02.002. Epub 2010 Feb 8. PubMed PMID: 20219427. Open Access Article	IVF	Human
2010	Yes	Noyes N, Knopman J, Labella P, McCaffrey C, Clark-Williams M, Grifo J. Oocyte cryopreservation outcomes including pre-cryopreservation and post-thaw meiotic spindle evaluation following slow cooling and vitrification of human oocytes. Fertil Steril. 2010 Nov;94(6):2078-82. doi: 10.1016/j.fertnstert.2010.01.019. Epub 2010 Feb 26. PubMed PMID: 20188356.	IVF	Human
2010	Yes	Sparman ML, Tachibana M, Mitalipov SM. Cloning of non-human primates: the road "less traveled by". Int J Dev Biol. 2010;54(11-12):1671-8. doi:10.1387/ijdb.103196ms. Review. PubMed PMID: 21404187; PubMed Central PMCID: PMC3110695. Open Access Article	SCNT	Primate

Date	Available	Citation	Application	Species
2010	Yes	Tachibana M, Sparman M, Mitalipov S. Chromosome transfer in mature oocytes. <i>Nat Protoc.</i> 2010 Jun;5(6):1138-47. doi: 10.1038/nprot.2010.75. Epub 2010 May 27. PubMed PMID: 20539289; PubMed Central PMCID: PMC3244345. Open Access Article	SCNT	Primate
2010	Yes	Werner M, Reh A, Labella PA, Noyes N. Laboratory evaluation in oocyte cryopreservation suggests retrieved oocytes are comparable whether frozen for medical indications, deferred reproduction or oocyte donation. <i>J Assist Reprod Genet.</i> 2010 Nov;27(11):613-7. doi: 10.1007/s10815-010-9455-y. Epub 2010 Jul 28. PubMed PMID: 20665237; PubMed Central PMCID: PMC2995435. Open Access Article	IVF	Human
2009	Yes	Chung Y, Bishop CE, Treff NR, Walker SJ, Sandler VM, Becker S, Klimanskaya I, Wun WS, Dunn R, Hall RM, Su J, Lu SJ, Maserati M, Choi YH, Scott R, Atala A, Dittman R, Lanza R. Reprogramming of human somatic cells using human and animal oocytes. <i>Cloning Stem Cells.</i> 2009 Jun;11(2):213-23. doi: 10.1089/clo.2009.0004. PubMed PMID: 19186982. Open Access Article	SCNT	Human
2009	No	Kilani S, Cooke S, Kan A, Chapman M. Are there non-invasive markers in human oocytes that can predict pregnancy outcome? <i>Reprod Biomed Online.</i> 2009 May;18(5):674-80. PubMed PMID: 19549447. Available online	IVF	Human
2009	Yes	Lasienė K, Vitkus A, Valanėiūtė A, Lasys V. Morphological criteria of oocyte quality. <i>Medicina (Kaunas)</i> 2009; 45(7) Researchgate.net PDF	IVF	Human
2009	Yes	Li J, Liu X, Wang H, Zhang S, Liu F, Wang X, Wang Y. Human embryos derived by somatic cell nuclear transfer using an alternative enucleation approach. <i>Cloning Stem Cells.</i> 2009 Mar;11(1):39-50. doi: 10.1089/clo.2008.0041. PubMed PMID: 19196043. Open Access Article	SCNT	Human

Date	Available	Citation	Application	Species
2009	Yes	Petersen CG, Oliveira JB, Mauri AL, Massaro FC, Baruffi RL, Pontes A, Franco JG Jr. Relationship between visualization of meiotic spindle in human oocytes and ICSI outcomes: a meta-analysis. <i>Reprod Biomed Online</i> . 2009 Feb;18(2):235-43. PubMed PMID: 19192344. Open Access Article	IVF	Human
2009	Yes	Sereni E, Sciajno R, Fava L, Coticchio G, Bonu MA, Borini A. A PolScope evaluation of meiotic spindle dynamics in frozen-thawed oocytes. <i>Reprod Biomed Online</i> . 2009 Aug;19(2):191-7. PubMed PMID: 19712553. Open Access Article .	IVF	Human
2009	Yes	Sparman M, Dighe V, Sritanaudomchai H, Ma H, Ramsey C, Pedersen D, Clepper L, Nighot P, Wolf D, Hennebold J, Mitalipov S. Epigenetic reprogramming by somatic cell nuclear transfer in primates. <i>Stem Cells</i> . 2009 Jun;27(6):1255-64. doi: 10.1002/stem.60. PubMed PMID: 19489081; PubMed Central PMCID: PMC2755529. Open Access Article	SCNT	Primate
2009	Yes	Tachibana M, Sparman M, Sritanaudomchai H, Ma H, Clepper L, Woodward J, Li Y, Ramsey C, Kolotushkina O, Mitalipov S. Mitochondrial gene replacement in primate offspring and embryonic stem cells. <i>Nature</i> . 2009 Sep 17;461(7262):367-72. doi: 10.1038/nature08368. Epub 2009 Aug 26. Erratum in: <i>Nature</i> . 2014 Dec;516(7530):276. PubMed PMID: 19710649; PubMed Central PMCID: PMC2774772. Open Access Article	SCNT	Primate
2009	Yes	Yoon SJ, Kim EY, Kim YS, Lee HS, Kim KH, Bae J, Lee KA. Role of Bcl2-like 10 (Bcl2l10) in Regulating Mouse Oocyte Maturation. <i>Biol Reprod</i> . 2009 Sep;81(3):497-506. doi: 10.1095/biolreprod.108.073759. Epub 2009 May 13. PubMed PMID: 19439730 Open Access Article	Dev Biology	Mouse
2008	No	Ciray HN, Coban O, Bayram A, Kizilkanat A, Bahçeci M. Preliminary study of embryo development following assessment of male and female gametes. <i>Reprod Biomed Online</i> . 2008 Jun;16(6):875-80. PubMed PMID: 18549699.	IVF	Human

Date	Available	Citation	Application	Species
2008	Yes	Gomes CM, Silva CA, Acevedo N, Baracat E, Serafini P, Smith GD. Influence of vitrification on mouse metaphase II oocyte spindle dynamics and chromatin alignment. <i>Fertil Steril.</i> 2008 Oct;90(4 Suppl):1396-404. doi: 10.1016/j.fertnstert.2007.08.025. Epub 2008 Mar 24. PubMed PMID: 18359482.	IVF	Mouse
2008	Yes	Gordeeva OF, Mitalipov ShM. [Pluripotent stem cells: maintenance of genetic and epigenetic stability and prospects of cell technologies]. <i>Ontogenez.</i> 2008 Nov-Dec;39(6):405-19. Review. Russian. PubMed PMID: 19137706. Open Access Article	SCNT	Human Primate
2008	Yes	Kim KH, Kim EY, Lee KA. SEBOX is essential for early embryogenesis at the two-cell stage in the mouse. <i>Biol Reprod.</i> 2008 Dec;79(6):1192-201. doi: 10.1095/biolreprod.108.068478. Epub 2008 Aug 27. PubMed PMID: 18753614. Open Access Article	Dev Biology	Mouse
2008	Yes	McElroy SL, Kee K, Tran N, Menses J, Giudice LC, Reijo Pera RA. Developmental competence of immature and failed/abnormally fertilized human oocytes in nuclear transfer. <i>Reprod Biomed Online.</i> 2008 May;16(5):684-93. PubMed PMID: 18492373. Open Access Article	SCNT	Human
2008	Yes	McElroy SL, Reijo Pera RA. Noninvasive human nuclear transfer with embryonic stem cells. <i>CSH Protoc.</i> 2008 Sep 1;2008:pdb.prot5040. doi: 10.1101/pdb.prot5040. PubMed PMID: 21356909. Researchgate.net PDF	SCNT	Human
2008	No	Shen Y, Betzendahl I, Tinneberg HR, Eichenlaub-Ritter U. Enhanced polarizing microscopy as a new tool in aneuploidy research in oocytes. <i>Mutat Res.</i> 2008 Mar 12;651(1-2):131-40. Epub 2007 Nov 9. Review. PubMed PMID: 18160331.	IVF	
2008	Yes	Stojković M, Phinney DG. Reprogramming battle: Egg vs. Virus. <i>Stem Cells.</i> 2008 Jan;26(1):1-2. Epub 2007 Nov 29. PubMed PMID: 18055442. Open Access Article	SCNT	Human Primate

Date	Available	Citation	Application	Species
2008	Yes	Taylor TH, Chang CC, Elliott T, Colturato LF, Kort HI, Nagy ZP. Effect of denuding on polar body position in in-vitro matured oocytes. <i>Reprod Biomed Online</i> . 2008 Oct;17(4):515-9. PubMed PMID: 18854105. Open Access Article	IVF	Human
2007	No	Byrne JA, Pedersen DA, Clepper LL, Nelson M, Sanger WG, Gokhale S, Wolf DP, Mitalipov SM. Producing primate embryonic stem cells by somatic cell nuclear transfer. <i>Nature</i> . 2007 Nov 22;450(7169):497-502. Epub 2007 Nov 14. Erratum in: <i>Nature</i> . 2014 Dec 11;516(7530):276. PubMed PMID: 18004281.	SCNT	Primate
2007	No	De Santis L, Cino I, Coticchio G, Fusi FM, Papaleo E, Rbellotti E, Brigante C, Borini A, Ferrari A. Objective evaluation of the viability of cryopreserved oocytes. <i>Reprod Biomed Online</i> . 2007 Sep;15(3):338-45. Review. PubMed PMID: 17854535	IVF	Human
2007	Yes	Egli D, Rosains J, Birkhoff G, Eggan K. Developmental reprogramming after chromosome transfer into mitotic mouse zygotes. <i>Nature</i> . 2007 Jun 7;447(7145):679-85. PubMed PMID: 17554301. Open Access Articles	SCNT	Mouse
2007	Yes	Fang C, Tang M, Li T, Peng WL, Zhou CQ, Zhuang GL, Leong M. Visualization of meiotic spindle and subsequent embryonic development in in vitro and in vivo matured human oocytes. <i>J Assist Reprod Genet</i> . 2007 Nov;24(11):547-51. Epub 2007 Sep 27. PubMed PMID: 17899355; PubMed Central PMCID: PMC3455025. Open Access Article	IVF	Human
2007	Yes	Hyun CS, Cha JH, Son WY, Yoon SH, Kim KA, Lim JH. Optimal ICSI timing after the first polar body extrusion in in vitro matured human oocytes. <i>Hum Reprod</i> . 2007 Jul;22(7):1991-5. Epub 2007 May 18. PubMed PMID: 17513319. Open Access Article	IVF	Human
2007	No	Larman MG, Minasi MG, Rienzi L, Gardner DK. Maintenance of the meiotic spindle during vitrification in human and mouse oocytes. <i>Reprod Biomed Online</i> . 2007 Dec;15(6):692-700. PubMed PMID: 18062868	IVF	Human, Mouse

Date	Available	Citation	Application	Species
2007	Yes	Mitalipov SM, Zhou Q, Byrne JA, Ji WZ, Norgren RB, Wolf DP. Reprogramming following somatic cell nuclear transfer in primates is dependent upon nuclear remodeling. Hum Reprod. 2007 Aug;22(8):2232-42. Epub 2007 Jun 11. PubMed PMID: 17562675. Open Access Article	SCNT	Primate
2007	Yes	Rama Raju GA, Prakash GJ, Krishna KM, Madan K. Meiotic spindle and zona pellucida characteristics as predictors of embryonic development: a preliminary study using PolScope imaging. Reprod Biomed Online. 2007 Feb;14(2):166-74. PubMed PMID: 17298718. Open Access Article	IVF	Human
2007	Yes	Varghese AC, Goldberg E, Bhattacharyya AK, Agarwal A. Emerging technologies for the molecular study of infertility, and potential clinical applications. Reprod Biomed Online. 2007 Oct;15(4):451-6. Review. PubMed PMID: 17908410. Open Access Article	IVF	Human
2007	Yes	Zeng HT, Ren Z, Yeung WS, Shu YM, Xu YW, Zhuang GL, Liang XY. Low mitochondrial DNA and ATP contents contribute to the absence of birefringent spindle imaged with PolScope in in vitro matured human oocytes. Hum Reprod. 2007 Jun;22(6):1681-6. Epub 2007 Apr 20. PubMed PMID: 17449512. Open Access Article	IVF	Human
2006	Yes	Chen N, Liow SL, Yip WY, Tan LG, Tong GQ, Ng SC. Early development of reconstructed embryos after somatic cell nuclear transfer in a non-human primate. Theriogenology. 2006 Sep 15;66(5):1300-6. Epub 2006 May 15. PubMed PMID: 16701816	SCNT	Primate
2006	Yes	Ebner T, Moser M, Tews G. Is oocyte morphology prognostic of embryo developmental potential after ICSI? Reprod Biomed Online. 2006 Apr;12(4):507-12. Review. PubMed PMID: 16740226.	IVF	Human
2006	No	Kilani SS, Cooke S, Kan AK, Chapman MG. Do age and extended culture affect the architecture of the zona pellucida of human oocytes and embryos? Zygote. 2006 Feb;14(1):39-44. PubMed PMID: 16700974.	IVF	Human

Date	Available	Citation	Application	Species
2006	Yes	Navarro PA, Liu L, Ferriani RA, Keefe DL. Arsenite induces aberrations in meiosis that can be prevented by coadministration of N-acetylcysteine in mice. <i>Fertil Steril</i> . 2006 Apr;85 Suppl 1:1187-94. PubMed PMID: 16616091.	IVF	Mouse
2006	Yes	Shen Y, Stalf T, Mehnert C, De Santis L, Cino I, Tinneberg HR, Eichenlaub-Ritter U. Light retardance by human oocyte spindle is positively related to pronuclear score after ICSI. <i>Reprod Biomed Online</i> . 2006 Jun;12(6):737-51. PubMed PMID: 16792851. Open Access Article	IVF	Human
2005	Yes	Bianchi V, Coticchio G, Fava L, Flamigni C, Borini A. Meiotic spindle imaging in human oocytes frozen with a slow freezing procedure involving high sucrose concentration. <i>Hum Reprod</i> . 2005 Apr;20(4):1078-83. Epub 2005 Mar 10. PubMed PMID:15760952. Open Access Article	IVF	Human
2005	Yes	De Santis L, Cino I, Rbellotti E, Calzi F, Persico P, Borini A, Coticchio G. Polar body morphology and spindle imaging as predictors of oocyte quality. <i>Reprod Biomed Online</i> . 2005 Jul;11(1):36-42. PubMed PMID: 16102284	IVF	Human
2005	Yes	Moon JH, Jee BC, Ku SY, Suh CS, Kim SH, Choi YM, Kim JG, Moon SY. Spindle positions and their distributions in in vivo and in vitro matured mouse oocytes. <i>Hum Reprod</i> . 2005 Aug;20(8):2207-10. Epub 2005 Apr 28. PubMed PMID: 15860493. Open Access Article	IVF	Mouse
2005	Yes	Navarro PA, Liu L, Trimarchi JR, Ferriani RA, Keefe DL. Noninvasive imaging of spindle dynamics during mammalian oocyte activation. <i>Fertil Steril</i> . 2005 Apr;83 Suppl 1:1197-205. PubMed PMID: 15831293	IVF	Human
2005	Yes	Rienzi L, Ubaldi F, Iacobelli M, Minasi MG, Romano S, Greco E. Meiotic spindle visualization in living human oocytes. <i>Reprod Biomed Online</i> . 2005 Feb;10(2):192-8. PubMed PMID: 15823222. Open Access Article	IVF	Human

Date	Available	Citation	Application	Species
2005	Yes	Shen Y, Betzendahl I, Sun F, Tinneberg HR, Eichenlaub-Ritter U. Non-invasive method to assess genotoxicity of nocodazole interfering with spindle formation in mammalian oocytes. <i>Reprod Toxicol.</i> 2005 Mar-Apr;19(4):459-71. PubMed PMID: 15749259.	Repro Tox	Mouse
2005	Yes	Shen Y, Stalf T, Mehnert C, Eichenlaub-Ritter U, Tinneberg HR. High magnitude of light retardation by the zona pellucida is associated with conception cycles. <i>Hum Reprod.</i> 2005 Jun;20(6):1596-606. Epub 2005 Feb 25. PubMed PMID: 15734754. Open Access Article	IVF	Human
2004	Yes	Cohen Y, Malcov M, Schwartz T, Mey-Raz N, Carmon A, Cohen T, Lessing JB, Amit A, Azem F. Spindle imaging: a new marker for optimal timing of ICSI? <i>Hum Reprod.</i> 2004 Mar;19(3):649-54. Epub 2004 Jan 29. PubMed PMID: 14998965. Open Access Article	IVF	Human
2004	Yes	Kanyó K, Konc J, Solti L, Cseh S. Assisted reproductive research: laser assisted hatching and spindle detection (spindle view technique). <i>Acta Vet Hung.</i> 2004;52(1):113-23. PubMed PMID: 15119792. Research Gate Article	IVF	Mouse
2004	No	Mandelbaum J, Anastasiou O, Lévy R, Guérin JF, de Larouzière V, Antoine JM. Effects of cryopreservation on the meiotic spindle of human oocytes. <i>Eur J Obstet Gynecol Reprod Biol.</i> 2004 Apr 5;113 Suppl 1:S17-23. Review. PubMed PMID: 15041125	IVF	Human
2004	Yes	Pelletier C, Keefe DL, Trimarchi JR. Noninvasive polarized light microscopy quantitatively distinguishes the multilaminar structure of the zona pellucida of living human eggs and embryos. <i>Fertil Steril.</i> 2004 Mar;81 Suppl 1:850-6. PubMed PMID: 15019819.	IVF	Human
2004	Yes	Rienzi L, Martinez F, Ubaldi F, Minasi MG, Iacobelli M, Tesarik J, Greco E. Polscope analysis of meiotic spindle changes in living metaphase II human oocytes during the freezing and thawing procedures. <i>Hum Reprod.</i> 2004 Mar;19(3):655-9. Epub 2004 Jan 29. PubMed PMID: 14998966. Open Access Article	IVF	Human

Date	Available	Citation	Application	Species
2004	Yes	Won JY, Kang JH, Shim H. Polscope-Assisted Enucleation for Nuclear Transfer in Mice. <i>Reprod Dev Biol</i> 28(4) : 257-260 (2004).	SCNT	Mouse
2003	Yes	Cooke S, Tyler JP, Driscoll GL. Meiotic spindle location and identification and its effect on embryonic cleavage plane and early development. <i>Hum Reprod.</i> 2003 Nov;18(11):2397-405. PubMed PMID: 14585893. Open Access Article	IVF	Human
2003	Yes	Keefe D, Liu L, Wang W, Silva C. Imaging meiotic spindles by polarization light microscopy: principles and applications to IVF. <i>Reprod Biomed Online.</i> 2003 Jul-Aug;7(1):24-9. Review. PubMed PMID: 12930570. Open Access Article	IVF	Human
2003	Yes	Moon JH, Hyun CS, Lee SW, Son WY, Yoon SH, Lim JH. Visualization of the metaphase II meiotic spindle in living human oocytes using the Polscope enables the prediction of embryonic developmental competence after ICSI. <i>Hum Reprod.</i> 2003 Apr;18(4):817-20. PubMed PMID: 12660277. Open Access Article.	IVF	Human
2003	Yes	Rienzi L, Ubaldi F, Martinez F, Iacobelli M, Minasi MG, Ferrero S, Tesarik J, Greco E. Relationship between meiotic spindle location with regard to the polar body position and oocyte developmental potential after ICSI. <i>Hum Reprod.</i> 2003 Jun;18(6):1289-93. PubMed PMID: 12773461. Open Access Article	IVF	Human
2003	No	Wang WH, Day BN, Wu GM. How does polyspermy happen in mammalian oocytes? <i>Microsc Res Tech.</i> 2003 Jul 1;61(4):335-41. Review. PubMed PMID: 12811738.	IVF	Human
2002	Yes	Liu L, Keefe DL. Ageing-associated aberration in meiosis of oocytes from senescence-accelerated mice. <i>Hum Reprod.</i> 2002 Oct;17(10):2678-85. PubMed PMID:12351548. Open Access Article.	IVF	Mouse
2002	Yes	Wang WH, Keefe DL. Prediction of chromosome misalignment among in vitro matured human oocytes by spindle imaging with the PolScope. <i>Fertil Steril.</i> 2002 Nov;78(5):1077-81. PubMed PMID: 12413997.	IVF	Human

Date	Available	Citation	Application	Species
2002	No	Wang WH, Keefe DL. Spindle observation in living mammalian oocytes with the polarization microscope and its practical use. <i>Cloning Stem Cells</i> . 2002;4(3):269-76. PubMed PMID: 12398808.	IVF	Human
2002	Yes	Wang WH, Meng L, Hackett RJ, Oldenbourg R, Keefe DL. Rigorous thermal control during intracytoplasmic sperm injection stabilizes the meiotic spindle and improves fertilization and pregnancy rates. <i>Fertil Steril</i> . 2002 Jun;77(6):1274-7. PubMed PMID: 12057740	IVF	Human
2001	Yes	LaFountain JR Jr, Oldenbourg R, Cole RW, Rieder CL. Microtubule flux mediates poleward motion of acentric chromosome fragments during meiosis in insect spermatocytes. <i>Mol Biol Cell</i> . 2001 Dec;12(12):4054-65. PubMed PMID: 11739800; PubMed Central PMCID: PMC60775. Open Access Article	Dev Biology	Insect
2001	Yes	Sun F, Yin H, Eichenlaub-Ritter U. Differential chromosome behaviour in mammalian oocytes exposed to the tranquilizer diazepam in vitro. <i>Mutagenesis</i> . 2001 Sep;16(5):407-17. PubMed PMID: 11507240. Open Access Article	Repro Tox	Mouse
2001	Yes	Wang WH, Meng L, Hackett RJ, Keefe DL. Developmental ability of human oocytes with or without birefringent spindles imaged by Polscope before insemination. <i>Hum Reprod</i> . 2001 Jul;16(7):1464-8. PubMed PMID: 11425830. Open Access Article	IVF	Human
2001	Yes	Wang WH, Meng L, Hackett RJ, Oldenbourg R, Keefe DL. Limited recovery of meiotic spindles in living human oocytes after cooling-rewarming observed using polarized light microscopy. <i>Hum Reprod</i> . 2001 Nov;16(11):2374-8. PubMed PMID: 11679523. Open Access Article	IVF	Human
2001	Yes	Wang WH, Meng L, Hackett RJ, Oldenbourg R, Keefe DL. The spindle observation and its relationship with fertilization after intracytoplasmic sperm injection in living human oocytes. <i>Fertil Steril</i> . 2001 Feb;75(2):348-53. PubMed PMID: 11172838.	IVF	Human

Date	Available	Citation	Application	Species
2000	Yes	Liu L, Oldenbourg R, Trimarchi JR, Keefe DL. A reliable, noninvasive technique for spindle imaging and enucleation of mammalian oocytes. Nat Biotechnol. 2000 Feb;18(2):223-5. PubMed PMID: 10657133.	SCNT	Mouse
2000	Yes	Liu L, Trimarchi JR, Oldenbourg R, Keefe DL. Increased birefringence in the meiotic spindle provides a new marker for the onset of activation in living oocytes. Biol Reprod. 2000 Jul;63(1):251-8. PubMed PMID: 10859266. Open Access Article	IVF	Human
1999	Yes	Katoh K, Hammar K, Smith PJ, Oldenbourg R. Arrangement of radial actin bundles in the growth cone of Aplysia bag cell neurons shows the immediate past history of filopodial behavior. Proc Natl Acad Sci U S A. 1999 Jul 6;96(14):7928-31. PubMed PMID: 10393924; PubMed Central PMCID: PMC22164. Open Access Article	Dev Biology	Mollusk
1999	Yes	Katoh K, Hammar K, Smith PJ, Oldenbourg R. Birefringence imaging directly reveals architectural dynamics of filamentous actin in living growth cones. Mol Biol Cell. 1999 Jan;10(1):197-210. PubMed PMID: 9880336; PubMed Central PMCID: PMC25163. Open Access Article	Dev Biology	Mollusk
1999	Yes	Silva CP, Kommineni K, Oldenbourg R, Keefe DL. The first polar body does not predict accurately the location of the metaphase II meiotic spindle in mammalian oocytes. Fertil Steril. 1999 Apr;71(4):719-21. PubMed PMID: 10202885.	IVF	Human
1998	Yes	Inoué S, Oldenbourg R. Microtubule dynamics in mitotic spindle displayed by polarized light microscopy. Mol Biol Cell. 1998 Jul;9(7):1603-7. PubMed PMID: 9658155; PubMed Central PMCID: PMC25393. Open Access Article . Supplemental Videos	Dev Biology	Plant & Animal
1997	Yes	Keefe D, Tran P, Pellegrini C, Oldenbourg R. Polarized light microscopy and digital image processing identify a multilaminar structure of the hamster zona pellucida. Hum Reprod. 1997 Jun;12(6):1250-2. PubMed PMID: 9222011. Open Access Article	IVF	Hamster

Date	Available	Citation	Application	Species
1997	No	Silva CP, Silva V, Kommineni K, Keefe D. Effect of in vitro culture of mammalian embryos on the architecture of the zona pellucida. Biol Bull. 1997 Oct;193(2):235-6. PubMed PMID: 9390393	IVF	
1997	Yes	Tran PT, DePina A, Inoué S, Oldenbourg R, Segal SJ, Burgos MH. Effect of gossypol on Spisula sperm observed with real-time confocal microscopy, polarized light microscopy, and video microscopy. Biol Bull. 1997 Oct;193(2):227-8. PubMed PMID: 9390392. Open Access Article	Dev Biology	Mollusk