

**RESEARCH LASER PUBLICATIONS (XYCLONE or XYRCOS)**

Date	Citation
2021	Kiyonari H, Kaneko M, Abe T, Shiraishi A, Yoshimi R, Inoue K, Furuta Y. Targeted Gene Disruption in a Marsupial, <i>Monodelphis Domestica</i> , by CRISPR/Cas9 Genome Editing. <i>Cell Press</i> . 2021 July 21: [1p.]. doi: https://doi.org/10.1016/j.cub.2021.06.056 . Open Access Article
2021	Morita K, Hatanaka Y, Ihashi S, Asano M, Miyamoto K, Matsumoto K. Symmetrically dimethylated histone H3R2 promotes global transcription during minor zygotic genome activation in mouse pronuclei. <i>Sci Rep</i> . 2021 May 12; 11(10146): [1p.]. doi: https://doi.org/10.1038/s41598-021-89334-w . Open Access Article
2021	Nedved BT, Freckelton ML, Hadfield MG. Laser ablation of the Apical Sensory Organ of <i>Hydroides Elegans</i> (Polychaeta) Does Not Inhibit Detection of Metamorphic Cues. <i>BioRxiv</i> . 2021 Jan. 25: 1-16. doi: https://doi.org/10.1101/2021.01.23.427931 . Open Access Article
2021	Stepien BK, Vaid S, Naumann R, Holtz A, Huttner WB. Generation of Interspecies Mouse-rat Chimeric Embryos by Embryonic Stem (ES) Cell Microinjection. <i>Star Protocols</i> . 2021 June 18; 2 (2): doi: https://doi.org/10.1016/j.xpro.2021.100494 .
2021	Xu J, Shu Y, Yao G, Zhang Y, Niu W, Zhang Y, Ma X, Jin H, Zhang F, Shi S, Wang Y, Song W, Dai S, Cheng L, Zhang X, Xie W, Hsueh AJ, Sun Y. Parental Methylome Reprogramming in Human Uniparental Blastocysts Reveals Germline Memory Transition. <i>Genome Res</i> . 2021 July 30: [1p.]. doi: 10.1101/gr.273318.120.
2020	Abe T, Inoue K, Furuta Y, Kiyonari H. Pronuclear Microinjection During S-Phase Increases the Efficiency of CRISPR-Cas9-Assisted Knockin of Large DNA Donors in Mouse Zygotes. <i>Cell Reports</i> . 2020 May 19; 31(7): 1-13. doi: https://doi.org/10.1016/j.celrep.2020.107653 . Open Access Article
2020	Oda H, Akiyama-Oda Y. The Common House Spider <i>Parasteatoda Tepidariorum</i> . <i>EvoDevo</i> . 2020 March 20; 11(6): 1-7. doi: https://doi.org/10.1186/s13227-020-00152-z . Open Access Article
2020	Trackenberg SN, Richardson EL, Allen JD. Effects of Embryo Energy, Egg Size, and Larval Food Supply on the Development of Asteroid Echinoderms. <i>Ecology and Evolution</i> . 2020 July 8; doi: https://doi.org/10.1002/ece3.6511 . Open Access Article
2019	Aguilar Calegare BF, Azzolini A, da Silva Vallim JR, Lo Turco EG, Tempaku PF, da Silva VC, Tufik S, D'Almeida V. Sleep Deprivation Decreases the Reproductive Capacity by Affecting the Arrival of Morulas in the Uterus. <i>Genesis</i> . 2019 Dec. 09: [1p.]. doi: https://doi.org/10.1002/dvg.23350 .

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2019	Kalkan T, Bornelöv S, Mulas C, Diamanti E, Lohoff T, Ralser M, Middelkamp S, Lombard P, Nichols J, Smith A. Complementary Activity of ETV5, RBPJ, and TCF3 Drives Formative Transition from Naive Pluripotency. <i>Cell Stem Cell</i> . 2019 April 25; 24(5): 785-801. doi: https://doi.org/10.1016/j.stem.2019.03.017 . Open Access Article
2019	Wong CY, Mills JK. Cell Extraction Automation in Single Cell Surgery using the Displacement Method. <i>Biomedical Microdevices</i> . 2019 March 09: 2-16. Open Access Article
2019	Yang C, Zheng H, Moussa M, Amin A, Huang J, El-Sayed A, Shang J, Liu Q. Effects of Laser Zona Thinning and Artificial Blastocoel Collapse on the Cryosurviving and Hatching of Buffalo (<i>Bubalus bulalis</i>) Blastocysts of Different Ages. <i>Theriogenology</i> . 2019 Nov. 18: 1-4. doi: https://doi.org/10.1016/j.theriogenology.2019.11.015 .
2018	Bowling S, Di Gregorio A, Sancho M, Pozzi S, Aarts M, Signore M, Schneider MD, Barbera JPM, Gil J, Rodriguez TA. P53 and mTOR Signalling Determine Fitness Selection Through Cell Competition During Early Mouse Embryonic Development. <i>Nature Communications</i> . 2018 May 02; 9(1763):1-12. doi:10.1038/s41467-018-04167-y. Open Access Article
2018	Dannenberg LC, Seaver EC. Regeneration of the germline in the annelid <i>Capitella teleta</i> . <i>Developmental Biology</i> . 2018 May 7; 440:74-87. doi: https://doi.org/10.1016/j.ydbio.2018.05.004 .
2018	Davidson LM, Liu Y, Griffiths T, Jones C, Coward K. Laser technology in the assisted reproductive technology laboratory: a narrative review. <i>Reproductive Biomedicine Online</i> . 2018 Dec 20: 1-35. doi: https://doi.org/10.1016/j.rbmo.2018.12.011 .
2018	Gassler J, Flyamer IM, Tachibana K. Single-nucleus Hi-C of mammalian oocytes and zygotes. <i>Methods in Cell Biology</i> . 2018 April 30: [1p.]. doi: https://doi.org/10.1016/bs.mcb.2018.03.032 .
2018	Huang Z, Liu J, Gao L, Zhuan Q, Luo Y, Zhu S, Lei K, Fu X. The Impacts of Laser Zona Thinning on Hatching and Implantation of Vitrified-Warmed Mouse Embryos. <i>Lasers in Medical Science</i> . 2018 Dec 13: 1-7. doi: https://doi.org/10.1007/s10103-018-2681-8 .
2018	Martin NP, Myers P, Goulding E, Chen SH, Walker M, Porter TM, Van Gorder L, Mathew A, Gruzdev A, Scappini E, Romeo C. Laser-assisted Lentiviral Gene Delivery to Mouse Fertilized Eggs. <i>J. Vis. Exp.</i> (141), e58327, doi:10.3791/58327 (2018). Open Access Video
2018	Wang QQ, Zhang YM, Zhong X, Li JW, XR A, Hou J. Dimethylated Histone H3 Lysine 9 is Dispensable for the Interaction Between Developmental Pluripotency-Associated Protein 3 (Dppa3) and Ten-Eleven Translocation 3 (Tet3) in Somatic Cells. <i>Reproduction, Fertility and Development</i> . 2018 Aug 13: [1p.]. doi: https://doi.org/10.1071/RD18062 .
2017	Auerbach W, DeChiara TM. Injecting Embryonic Stem Cells into Eight-Cell-Stage Mouse Embryos. <i>Cold Spring Harb Protoc</i> . 2017 Sept; 2017(9): [1p.]. doi:10.1101/pdb.prot094367.

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2017	Henry JQ, Lyons DC, Perry KJ, Osborne CC. Establishment and Activity of the D Quadrant Organizer in the Marine Gastropod <i>Crepidula Fornicata</i> . <i>Developmental Biology</i> . 2017 Sept 6: [1p.]. doi: https://doi.org/10.1016/j.ydbio.2017.09.003 .
2017	Huang Z, Danshina PV, Mohr K, Qu W, Goodson SG, O'Connell TM, O'Brien DA. Sperm function, protein phosphorylation and metabolism differ in mice lacking successive sperm-specific glycolytic enzymes. <i>Biology Reproduction</i> . 2017 Aug 28:[1p.]. doi: https://doi.org/10.1093/biolre/iox103 .
2017	Sepulveda-Rincon LP, Islam N, Marsters P, Campbell BK, Beaujean N, Maalouf WE. Embryo cell allocation patterns are not altered by biopsy but can be linked with further development. <i>Reproduction Research</i> . 2017; 154: 807-814. doi: 10.1530/REP-17-0514.
2017	Smith ZD, Shi J, Gu H, Donaghey J, Clement K, Cacciarelli D, Gnirke A, Michor F, Meissner A. Epigenetic Restriction of Extraembryonic Lineages Mirrors the Somatic Transition to Cancer. 2017 Sept 28; 549(7673): 543–547. doi:10.1038/nature23891.
2017	Yamada M, Egli D. Developmental Potential of Developmentally Compromised Postovulatory Aged Mouse Oocytes. <i>Stem Cell Reports</i> . 2017 Feb 23; 8 (3). doi: http://dx.doi.org/10.1016/j.stemcr.2017.01.020 . Open Access Article
2016	Calabrese GM, Mesner LD, Stains JP, Tommasini SM, Horowitz MC, Rosen CJ, Farber CR. Integrating GWAS and Co-expression Network Data Identifies Bone Mineral Density Genes SPTBN1 and MARK3 and an Osteoblast Functional Module. <i>CellSystems</i> . 2016 Nov 17; 4: 1-14. doi: http://dx.doi.org/10.1016/j.cels.2016.10.014 . Open Access Article
2016	Nawal A, Smith PT, Catt S. Effect of Chemically Defined Lipid Molecules on Blastocyst Development And Outgrowth. <i>Int J Anat Res</i> . 2016 Sept 29; 4(4): 2950-58. doi: 10.16965/ijar.2016.380. Open Access Article
2016	Niwa H. Investigation of the Cellular Reprogramming Phenomenon Referred to as Stimulus-triggered Acquisition of Pluripotency (STAP). 2016 June 13; 6(28003): 1-10. doi: 10.1038/srep28003. Open Access Article
2016	Sanmee U, Piromlertamorn W, Vutyavanich T. The effect of the site of laser zona opening on the complete hatching of mouse blastocysts and their cell numbers. <i>CERM</i> . 2016 Sept 22; 43(3): 152-156. doi: https://doi.org/10.5653/cerm.2016.43.3.152 . Open Access Article
2016	Siripattarapavat K, Prukudom S, Cibelli J. Method for Somatic Cell Nuclear Transfer in Zebrafish. <i>Methods in Cell Biology</i> . 2016 May 24; 135: 245-257. doi: https://doi.org/10.1016/bs.mcb.2016.04.022 .

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2016	Strassert JFH, Mikaelyan A, Woyke T, Brune A. Genome Analysis of ‘Candidatus Ancillula Trichonymphae’, First Representative of a Deep-Branching Clade of Bifidobacteriales, Strengthens Evidence for Convergent Evolution in Flagellate Endosymbionts. <i>Society for Applied Microbiology</i> . 2016 August 12; 8 (5): 865-873. doi: https://doi.org/10.1111/1758-2229.12451 . Open Access Article
2016	Wong CY, Mills JK. Automation and optimization of multi-pulse laser zona drilling of mouse embryos during embryo biopsy. <i>IEEE</i> . 2016 May 19; PP(99):[1p.]. doi: 10.1109/TBME.2016.2571060.
2016	Yamaguchi E, Dannenberg L, Amiel A, Seaver E. Regulative capacity for eye formation by first quartet micromeres of the polychaete <i>Capitella teleta</i> . <i>Developmental Biology</i> ; 406(2016): 119-130. doi:10.1016/j.ydbio.2015.12.009. Open Access Article
2015	Akutsu H, M, Kanzaki S, Sugawara T, Ohkura T, Nakamura N, Yamazaki-Inoue M, Miura T, Vemuri MC, Rao MS, Miyado K, Umezawa A. Xenogeneic-free defined conditions for derivation and expansion of human embryonic stem cells with mesenchymal stem cells, <i>Regenerative Therapy</i> , Volume 1, June 2015, Pages 18-29. Open Access Article
2015	Alexandrova S, Kalkan T, Humphreys P, Riddell A, Scognamiglio R, Trumpp A, Nichols J. Selection and dynamics of embryonic stem cell integration into early mouse embryos. <i>Development</i> . 2015 Nov 19. pii: dev.124602. [Epub ahead of print] PubMed PMID: 26586221. Open Access Article
2015	Amri A, Abdullah R, Embong W. Developmental Potential of Mouse Single Blastomere Derived from Isolated 2-, 4- and 8- Cell Embryos into Blastocyst and Inner Cell Mass (ICM) Outgrowths. <i>Sains Malaysiana</i> . 2015 Oct 6; 45(4): 575-580. Open Access Article
2015	Campos-Chillon F, Mancino J, Barcelo M, Altermatt JL. Progress in genotyping in vitro-produced embryos: are we close? <i>Proceedings, Applied Reproductive Strategies in Beef Cattle</i> . 2015, Aug 17-18;pp258-265. Open Access Article
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2015	Moran S, Chi T, Prucha MS, Ahn KS, Connor-Stroud F, Jean S, Gould K, Chan AW. Germline transmission in transgenic Huntington's disease monkeys. <i>Theriogenology</i> . 2015 Jul 15;84(2):277-85. doi: 10.1016/j.theriogenology.2015.03.016. Epub 2015 Mar 25. PubMed PMID: 25917881; PubMed Central PMCID: PMC4631054.
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2014	Matrone G, Maqsood S, Taylor J, Mullins JJ., Tucker CS., Denvir MA. Targeted Laser Ablation of the Zebrafish Larval Heart Induces Models of Heart Block, Valvular Regurgitation, and Outflow Tract Obstruction. Zebrafish. Epub ahead of print. doi:10.1089/zeb.2014.1027.
2014	Rao BS, Mahesh YU, Suman K, Charan KV, Nath R, Rao KR. Meiotic maturation of oocytes recovered from the ovaries of Indian big cats at postmortem. In Vitro Cell Dev Biol Anim. 2015 Jan;51(1):19-25. doi: 10.1007/s11626-014-9802-x. Epub 2014 Aug 15. PubMed PMID: 25124872.
2014	Woods SE, Qi P, Rosalia E, Chavarria T, Discua A, Mkandawire J, Fox JG, García A. Laser-assisted in vitro fertilization facilitates fertilization of vitrified-warmed C57BL/6 mouse oocytes with fresh and frozen-thawed spermatozoa, producing live pups. PLoS One. 2014 Mar 11;9(3):e91892. doi: 10.1371/journal.pone.0091892. eCollection 2014. PubMed PMID: 24618785; PubMed Central PMCID: PMC3950285. Open Access Article
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2013	Hatanaka Y, Shimizu N, Nishikawa S, Tokoro M, Shin SW, Nishihara T, Amano T, Anzai M, Kato H, Mitani T, Hosoi Y, Kishigami S, Matsumoto K. GSE Is a Maternal Factor Involved in Active DNA Demethylation in Zygotes. PLoS One. 2013;8(4):e60205. doi: 10.1371/journal.pone.0060205. Epub 2013 Apr 1. PubMed PMID: 23560077.

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2013	Hornick JE, Duncan FE, Shea LD, Woodruff TK. Multiple follicle culture supports primary follicle growth through paracrine-acting signals. <i>Reproduction</i> . 2013 Jan 8;145(1):19-32. doi: 10.1530/REP-12-0233. Print 2013. Epub 2012 Oct 29 PubMed PMID: 23108112.
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2013	Jiao ZX, Woodruff TK. Detection and quantification of maternal-effect gene transcripts in mouse second polar bodies: potential markers of embryo developmental competence. <i>Fertil Steril</i> . 2013 Mar 2. doi:pii:S0015-0282(13)00259-8. 10.1016/j.fertnstert.2013.02.003. [Epub ahead of print] PubMed PMID: 23465709
2013	Li MW, Kinchen KL, Vallelunga JM, Young DL, Wright KD, Gorano LN, Wasson K, Lloyd K. Safety, efficacy and efficiency of laser assisted IVF in subfertile mutant mouse strains. <i>Reproduction</i> . 2013 Jan 11. [Epub ahead of print] PubMed PMID: 23315689.
2013	Matrone G, Taylor JM, Wilson KS, Baily J, Love GD, Girkin JM, Mullins JJ, Tucker CS, Denvir MA. Laser-targeted ablation of the zebrafish embryonic ventricle: A novel model of cardiac injury and repair. <i>Int J Cardiol</i> . 2013 Jul 17. doi:pii: S0167-5273(13)01117-0. 10.1016/j.ijcard.2013.06.063. [Epub ahead of print] PubMed PMID: 23871347 Open Access Article
2013	Paull D, Emmanuele V, Weiss KA, Treff N, Stewart L, Hua H, Zimmer M, Kahler DJ, Goland RS, Noggle SA, Prosser R, Hirano M, Sauer MV, Egli D. Nuclear genome transfer in human oocytes eliminates mitochondrial DNA variants. <i>Nature</i> . 2013 Jan 31;493(7434):632-7. doi: 10.1038/nature11800. Epub 2012 Dec 19. PubMed PMID: 23254936.
2013	Putkhao K, Kocerha J, Cho IK, Yang J, Parnpai R, Chan AW. Pathogenic Cellular Phenotypes are Germline Transmissible in a Transgenic Primate Model of Huntington's Disease. <i>Stem Cells Dev</i> . 2013 Jan 15. [Epub ahead of print] PubMed PMID: 23190281
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2013	Taylor JM, Girkin JM, Love GD. High-resolution 3D optical microscopy inside the beating zebrafish heart using prospective optical gating. <i>Biomed Opt Express</i> . 2012 Dec 1;3(12):3043-53. doi: 10.1364/BOE.3.003043. Epub 2012 Oct 31. PubMed PMID: 23243558; PubMed Central PMCID: PMC3521314.

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2012	Alliegro MC, Hartson S, Alliegro MA. Composition and dynamics of the nucleolus, a link between the nucleolus and cell division apparatus in surf clam (<i>Spisula</i>) oocytes. <i>J Biol Chem</i> . 2012 Feb 24;287(9):6702-13. Epub 2012 Jan 4. PubMed PMID: 22219192; PubMed Central PMCID: PMC3307295. Open Access Article
2012	Bui HT, Kwon DN, Kang MH, Oh MH, Park MR, Park WJ, Paik SS, Van Thuan N, Kim JH. Epigenetic reprogramming in somatic cells induced by extract from germinal vesicle stage pig oocytes. <i>Development</i> . 2012 Dec;139(23):4330-40. doi: 10.1242/dev.086116. PubMed PMID: 23132243.
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2011	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.
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