

# Vladimir Isachenko

## List of Publications by Citations

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108  
papers

3,058  
citations

33  
h-index

52  
g-index

117  
ext. papers

3,381  
ext. citations

2.7  
avg, IF

4.72  
L-index

#	Paper	IF	Citations
108	Potential importance of vitrification in reproductive medicine. <i>Biology of Reproduction</i> , <b>2002</b> , 67, 1671-86	8.9	193
107	Cryoprotectant-free cryopreservation of human spermatozoa by vitrification and freezing in vapor: effect on motility, DNA integrity, and fertilization ability. <i>Biology of Reproduction</i> , <b>2004</b> , 71, 1167-73	3.9	180
106	Vitrification of mammalian spermatozoa in the absence of cryoprotectants: from past practical difficulties to present success. <i>Reproductive BioMedicine Online</i> , <b>2003</b> , 6, 191-200	4	170
105	Human ovarian tissue vitrification versus conventional freezing: morphological, endocrinological, and molecular biological evaluation. <i>Reproduction</i> , <b>2009</b> , 138, 319-27	3.8	134
104	DNA integrity and motility of human spermatozoa after standard slow freezing versus cryoprotectant-free vitrification. <i>Human Reproduction</i> , <b>2004</b> , 19, 932-9	5.7	134
103	Acrosomal status and mitochondrial activity of human spermatozoa vitrified with sucrose. <i>Reproduction</i> , <b>2008</b> , 136, 167-73	3.8	118
102	Clean technique for cryoprotectant-free vitrification of human spermatozoa. <i>Reproductive BioMedicine Online</i> , <b>2005</b> , 10, 350-4	4	109
101	Aseptic technology of vitrification of human pronuclear oocytes using open-pulled straws. <i>Human Reproduction</i> , <b>2005</b> , 20, 492-6	5.7	81
100	Cryopreservation of human ovarian tissue: comparison of rapid and conventional freezing. <i>Cryobiology</i> , <b>2007</b> , 55, 261-8	2.7	76
99	Vitrification of human spermatozoa without cryoprotectants. <i>Cryo-Letters</i> , <b>2002</b> , 23, 93-102	0.3	74
98	Cryopreservation of human ovarian tissue by direct plunging into liquid nitrogen. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , <b>2003</b> , 108, 186-93	2.4	71
97	Effective method for in-vitro culture of cryopreserved human ovarian tissue. <i>Reproductive BioMedicine Online</i> , <b>2006</b> , 13, 228-34	4	67
96	Vitrification of human ICSI/IVF spermatozoa without cryoprotectants: new capillary technology. <i>Journal of Andrology</i> , <b>2012</b> , 33, 462-8		64
95	Effect of seminal plasma on Atlantic salmon ( <i>Salmo salar</i> ) sperm vitrification. <i>Theriogenology</i> , <b>2015</b> , 83, 238-45.e2	2.8	62
94	Fish ( <i>Oncorhynchus mykiss</i> ) spermatozoa cryoprotectant-free vitrification: stability of mitochondrion as criterion of effectiveness. <i>Animal Reproduction Science</i> , <b>2011</b> , 124, 125-31	2.1	58
93	Canine sperm vitrification with sucrose: effect on sperm function. <i>Andrologia</i> , <b>2011</b> , 43, 233-41	2.4	58
92	Re-vascularisation in human ovarian tissue after conventional freezing or vitrification and xenotransplantation. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , <b>2010</b> , 149, 63-7	2.4	55

91	Cryoprotectant-free vitrification of human spermatozoa in large (up to 0.5 mL) volume: a novel technology. <i>Clinical Laboratory</i> , <b>2011</b> , 57, 643-50	2	54
90	Comparison of necrosis in human ovarian tissue after conventional slow freezing or vitrification and transplantation in ovariectomized SCID mice. <i>Reproductive BioMedicine Online</i> , <b>2004</b> , 9, 187-93	4	51
89	Human spermatozoa vitrified in the absence of permeable cryoprotectants: birth of two healthy babies. <i>Reproduction, Fertility and Development</i> , <b>2012</b> , 24, 323-6	1.8	50
88	Vitrification of human laser treated blastocysts within cut standard straws (CSS): novel aseptic packaging and reduced concentrations of cryoprotectants. <i>Cryobiology</i> , <b>2007</b> , 54, 305-9	2.7	45
87	Live birth after intrauterine insemination with spermatozoa from an oligoasthenozoospermic patient vitrified without permeable cryoprotectants. <i>Journal of Andrology</i> , <b>2012</b> , 33, 559-62		44
86	Aseptic vitrification of human germinal vesicle oocytes using dimethyl sulfoxide as a cryoprotectant. <i>Fertility and Sterility</i> , <b>2006</b> , 85, 741-7	4.8	43
85	Comparison of in vitro- and chorioallantoic membrane (CAM)-culture systems for cryopreserved medulla-contained human ovarian tissue. <i>PLoS ONE</i> , <b>2012</b> , 7, e32549	3.7	43
84	Cryoprotectant-free vitrification of fish ( <i>Oncorhynchus mykiss</i> ) spermatozoa: first report. <i>Andrologia</i> , <b>2012</b> , 44 Suppl 1, 390-5	2.4	38
83	Modified vitrification of human pronuclear oocytes: efficacy and effect on ultrastructure. <i>Reproductive BioMedicine Online</i> , <b>2003</b> , 7, 211-6	4	36
82	In-vitro maturation of germinal-vesicle oocytes and cryopreservation in metaphase I/II: a possible additional option to preserve fertility during ovarian tissue cryopreservation. <i>Reproductive BioMedicine Online</i> , <b>2004</b> , 8, 553-7	4	35
81	In-vitro culture of human embryos with mechanical micro-vibration increases implantation rates. <i>Reproductive BioMedicine Online</i> , <b>2011</b> , 22, 536-44	4	34
80	Effect of long-term exposure at suprazero temperatures on activity and viability of human ovarian cortex. <i>Fertility and Sterility</i> , <b>2009</b> , 91, 1556-9	4.8	34
79	Vitrification of mouse pronuclear embryos after polar body biopsy without direct contact with liquid nitrogen. <i>Fertility and Sterility</i> , <b>2005</b> , 84, 1011-6	4.8	34
78	Updates in preserving reproductive potential of prepubertal girls with cancer: Systematic review. <i>Critical Reviews in Oncology/Hematology</i> , <b>2016</b> , 103, 10-21	7	34
77	Vitrified sperm banks: the new aseptic technique for human spermatozoa allows cryopreservation at -86 °C. <i>Andrologia</i> , <b>2012</b> , 44, 433-5	2.4	33
76	Cryopreservation of human ovarian tissue: effect of spontaneous and initiated ice formation. <i>Reproductive BioMedicine Online</i> , <b>2008</b> , 16, 336-45	4	33
75	Developmental rate and ultrastructure of vitrified human pronuclear oocytes after step-wise versus direct rehydration. <i>Human Reproduction</i> , <b>2004</b> , 19, 660-5	5.7	31
74	Overnight ovarian tissue transportation for centralized cryobanking: a feasible option. <i>Reproductive BioMedicine Online</i> , <b>2019</b> , 38, 740-749	4	30

73	Apoptosis in human ovarian tissue after conventional freezing or vitrification and xenotransplantation. <i>Cryo-Letters</i> , <b>2009</b> , 30, 300-9	0.3	30
72	Cross border reproductive care (CBRC): a growing global phenomenon with multidimensional implications (a systematic and critical review). <i>Journal of Assisted Reproduction and Genetics</i> , <b>2018</b> , 35, 1277-1288	3.4	29
71	High temperature is essential for preserved human sperm function during the devitrification process. <i>Andrologia</i> , <b>2016</b> , 48, 111-3	2.4	28
70	Technologies of cryoprotectant-free vitrification of human spermatozoa: asepticity as criterion of effectiveness. <i>Andrologia</i> , <b>2017</b> , 5, 1055-1063	4.2	27
69	Increasing follicular and stromal cell proliferation in cryopreserved human ovarian tissue after long-term precooling prior to freezing: in vitro versus chorioallantoic membrane (CAM) xenotransplantation. <i>Cell Transplantation</i> , <b>2013</b> , 22, 2053-61	4	27
68	Protective effect of butylated hydroxytoluene on sperm function in human spermatozoa cryopreserved by vitrification technique. <i>Andrologia</i> , <b>2015</b> , 47, 186-93	2.4	25
67	Cryopreservation of Ovarian Tissue: Detailed Description of Methods for Transport, Freezing and Thawing. <i>Geburtshilfe Und Frauenheilkunde</i> , <b>2012</b> , 72, 927-932	2	23
66	Cryopreservation of human ovarian tissue by direct plunging into liquid nitrogen: negative effect of disaccharides in vitrification solution. <i>Cryo-Letters</i> , <b>2002</b> , 23, 333-44	0.3	23
65	Viability of human ovarian tissue confirmed 5 years after freezing with spontaneous ice-formation by autografting and chorio-allantoic membrane culture. <i>Cryobiology</i> , <b>2013</b> , 66, 233-8	2.7	20
64	Long-Time Cooling before Cryopreservation Decreased Translocation of Phosphatidylserine (Ptd-L-Ser) in Human Ovarian Tissue. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129108	3.7	20
63	Cryobanking of human ovarian tissue for anti-cancer treatment: comparison of vitrification and conventional freezing. <i>Cryo-Letters</i> , <b>2009</b> , 30, 449-54	0.3	20
62	First live birth in germany after re-transplantation of cryopreserved ovarian tissue: original device for initiation of ice formation. <i>Clinical Laboratory</i> , <b>2012</b> , 58, 933-8	2	20
61	Use of the fluorescent dye tetramethylrhodamine methyl ester perchlorate for mitochondrial membrane potential assessment in human spermatozoa. <i>Andrologia</i> , <b>2017</b> , 49, e12753	2.4	19
60	Trehalose sustains a higher post-thaw sperm motility than sucrose in vitrified human sperm. <i>Andrologia</i> , <b>2017</b> , 49, e12757	2.4	19
59	Human ovarian tissue: vitrification versus conventional freezing. <i>Human Reproduction</i> , <b>2009</b> , 24, 1767-8; author reply 1768-9	5.7	19
58	Human ovarian tissue cryopreservation: quality of follicles as a criteria of effectiveness. <i>Reproductive BioMedicine Online</i> , <b>2010</b> , 20, 441-2	4	18
57	Integrity rate of pronuclei after cryopreservation of pronuclear-zygotes as a criteria for subsequent embryo development and pregnancy. <i>Human Reproduction</i> , <b>2008</b> , 23, 819-26	5.7	17
56	Cryopreservation and xenografting of human ovarian fragments: medulla decreases the phosphatidylserine translocation rate. <i>Reproductive Biology and Endocrinology</i> , <b>2016</b> , 14, 79	5	16

55	Short-term storage of salmonids semen in a sodium alginate-based extender. <i>Andrologia</i> , <b>2017</b> , 49, e1266.4	15
54	Conventional freezing vs. cryoprotectant-free vitrification of epididymal (MESA) and testicular (TESE) spermatozoa: Three live births. <i>Cryobiology</i> , <b>2019</b> , 90, 100-102	2.7 14
53	Human sperm vitrification: A scientific report. <i>Andrology</i> , <b>2020</b> , 8, 1642-1650	4.2 13
52	Human ovarian tissue preservation: is vitrification acceptable method for assisted reproduction?. <i>Cryo-Letters</i> , <b>2008</b> , 29, 301-14	0.3 13
51	Prevention of ovarian damage and infertility in young female cancer patients awaiting chemotherapy--clinical approach and unsolved issues. <i>Supportive Care in Cancer</i> , <b>2011</b> , 19, 1909-19	3.9 12
50	Nitrosative stress in human spermatozoa causes cell death characterized by induction of mitochondrial permeability transition-driven necrosis. <i>Asian Journal of Andrology</i> , <b>2018</b> , 20, 600-607	2.8 11
49	Effect of cryoprotectants on the ultrastructure of cooled human pronuclear oocytes. <i>Fertility and Sterility</i> , <b>2004</b> , 81, 720-2	4.8 10
48	Comparison of the enzymatic efficiency of Liberase TM and tumor dissociation enzyme: effect on the viability of cells digested from fresh and cryopreserved human ovarian cortex. <i>Reproductive Biology and Endocrinology</i> , <b>2018</b> , 16, 57	5 10
47	Long-time cooling of human ovarian tissue before cryopreservation as obvious procedure: stimulation of follicular development and neo-vascularisation. <i>Clinical Laboratory</i> , <b>2012</b> , 58, 1293-300	2 10
46	Vitrification of human pronuclear oocytes by direct plunging into cooling agent: Non sterile liquid nitrogen vs. sterile liquid air. <i>Cryobiology</i> , <b>2018</b> , 80, 84-88	2.7 9
45	Simplified technique of human ovarian tissue freezing: quick cooling from -36 degree C. <i>Cryo-Letters</i> , <b>2008</b> , 29, 261-8	0.3 9
44	Effect of incubation temperature after devitrification on quality parameters in human sperm cells. <i>Cryobiology</i> , <b>2017</b> , 79, 78-81	2.7 8
43	Advances in fertility preservation of female patients with hematological malignancies. <i>Expert Review of Hematology</i> , <b>2017</b> , 10, 951-960	2.8 7
42	In Vitro Microvibration Increases Implantation Rate After Embryonic Cell Transplantation. <i>Cell Transplantation</i> , <b>2017</b> , 26, 789-794	4 7
41	Cryopreservation of spermatozoa176-198	7
40	Novel Approaches to the Cryopreservation of Human Spermatozoa: History and Development of the Spermatozoa Vitrification Technology. <i>Journal of Reproductive and Stem Cell Biotechnology</i> , <b>2011</b> , 2, 128-145	7
39	Vitrification in small quenched volumes with a minimal amount of, or without vitrificants: basic biophysics and thermodynamics. <i>Reproductive Medicine and Assisted Reproductive Techniques Series</i> , <b>2007</b> , 21-32	7
38	Cryoprotectant-free vitrification of spermatozoa: Fish as a model of human. <i>Andrologia</i> , <b>2019</b> , 51, e13166.4	7

37	Ultra-structure of intracellular lipid vesicles of porcine GV-oocytes after in vitro fertilization and parthenogenetic activation. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , <b>2003</b> , 32, 126-8	1.1	6
36	Long-term (24h) cooling of ovarian fragments in the presence of permeable cryoprotectants prior to freezing: Two unsuccessful IVF-cycles and spontaneous pregnancy with baby born after re-transplantation. <i>Cryobiology</i> , <b>2020</b> , 93, 115-120	2.7	5
35	Construction of human artificial ovary from cryopreserved ovarian tissue: Appearance of apoptosis and necrosis after enzymatic isolation of follicles. <i>Cryobiology</i> , <b>2018</b> , 84, 10-14	2.7	5
34	Whole ovine ovaries as a model for human: perfusion with cryoprotectants in vivo and in vitro. <i>BioMed Research International</i> , <b>2014</b> , 2014, 409019	3	5
33	Effect of warming temperatures on donkey sperm vitrification in 0.5 mL straws in comparison to conventional freezing. <i>Spanish Journal of Agricultural Research</i> , <b>2019</b> , 17, e0406	1.1	5
32	Chapter 6 Technology of Aseptic Cryoprotectant-Free Vitrification of Human ICSI Spermatozoa. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1568, 79-84	1.4	4
31	Vitrification Technique - New Possibilities for Male Gamete Low-Temperature Storage <b>2012</b> ,		4
30	Response: Efficacy of ultraviolet sterilization of liquid nitrogen. <i>Reproductive BioMedicine Online</i> , <b>2011</b> , 22, 502	4	4
29	In vitro perfusion of whole bovine ovaries by freezing medium: effect of perfusion rate and elapsed time after extraction. <i>Clinical Laboratory</i> , <b>2013</b> , 59, 1159-66	2	4
28	Genexpression und Morphologie der Follikel nach konventionellem Einfrieren und Vitrifikation von humanem Ovarialgewebe. <i>Geburtshilfe Und Frauenheilkunde</i> , <b>2010</b> , 70, 561-567	2	3
27	Aseptic Technology for Cryoprotectant-Free Vitrification of Human Spermatozoa by Direct Dropping into Clean Liquid Air: Apoptosis, Necrosis, Motility, and Viability. <i>BioMed Research International</i> , <b>2020</b> , 2020, 2934315	3	3
26	Unraveling Subcellular and Ultrastructural Changes During Vitrification of Human Spermatozoa: Effect of a Mitochondria-Targeted Antioxidant and a Permeable Cryoprotectant. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 672862	5.7	3
25	A successful multidisciplinary approach for treatment and for preserving the reproductive potential in a rare case of acute lymphocytic leukemia during pregnancy. <i>Gynecological Endocrinology</i> , <b>2019</b> , 35, 115-118	2.4	3
24	An Experimental Model of Breast Cancer Cells: Informative Protocol for Culture. <i>Anticancer Research</i> , <b>2018</b> , 38, 6237-6245	2.3	3
23	Patient with ovarian insufficiency: baby born after anticancer therapy and re-transplantation of cryopreserved ovarian tissue. <i>Journal of Ovarian Research</i> , <b>2020</b> , 13, 118	5.5	2
22	Banking of human ovarian tissue potentially contaminated by cancer cells: experimental model for study of cryo-stability of these cells. <i>Cell and Tissue Banking</i> , <b>2020</b> , 21, 57-63	2.2	2
21	Increasing of malignancy of breast cancer cells after cryopreservation: molecular detection and activation of angiogenesis after CAM-xenotransplantation. <i>BMC Cancer</i> , <b>2020</b> , 20, 753	4.8	2
20	New method of FACS analyzing and sorting of intact whole ovarian fragments (COPAS) after long time (24 h) cooling to 5 °C before cryopreservation. <i>Cell and Tissue Banking</i> , <b>2021</b> , 22, 487-498	2.2	2

19	Construction and cryopreservation of an artificial ovary in cancer patients as an element of cancer therapy and a promising approach to fertility restoration. <i>Human Fertility</i> , <b>2021</b> , 1-21	1.9	2
18	Influence of Risk Factors for Male Infertility on Sperm Protein Composition. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
17	Vitrificaci3n de espermatozoides: una alternativa a la inyecci3n intracitoplasm3tica de espermatozoides en paciente con oligoastenozoospermia severa. <i>Revista Internacional De Androlog3a</i> , <b>2013</b> , 11, 36-39	0.6	1
16	Concept of human ovarian tissue cryobanking213-217		1
15	Die vaskularisierte Chorioallantoismembran (CAM): ein Kultursystem f3r kryokonserviertes menschliches Ovarialgewebe als Alternative zur Xenotransplantation. <i>Geburtshilfe Und Frauenheilkunde</i> , <b>2011</b> , 71, 862-868	2	1
14	Artificial Ovary for Young Female Breast Cancer Patients.. <i>Frontiers in Medicine</i> , <b>2022</b> , 9, 837022	4.9	1
13	Evidence of Passive Smoking as a Risk Factor of High-Grade Squamous Intraepithelial Lesion: A Case-Control Study. <i>Biological and Pharmaceutical Bulletin</i> , <b>2020</b> , 43, 1061-1066	2.3	0
12	In vitro activation of cryopreserved ovarian tissue: A single-arm meta-analysis and systematic review. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , <b>2021</b> , 258, 258-264	2.4	0
11	Aseptic capillary vitrification of human spermatozoa: Cryoprotectant-free vs. cryoprotectant-included technologies. <i>Cryobiology</i> , <b>2021</b> , 99, 95-102	2.7	0
10	Biallelic mutations in KATNAL2 cause male infertility due to oligo-astheno-teratozoospermia. <i>Clinical Genetics</i> , <b>2021</b> , 100, 376-385	4	0
9	Cryo-banking of human spermatozoa by aseptic cryoprotectants-free vitrification in liquid air: Positive effect of elevated warming temperature. <i>Cell and Tissue Banking</i> , <b>2021</b> , 1	2.2	0
8	Pathogenic Variants in Cause Acephalic Spermatozoa Syndrome. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 676246	5.7	0
7	High cryo-resistance of SARS-CoV-2 virus: Increased risk of re-contamination at transplantation of cryopreserved ovarian tissue after COVID-19 pandemic. <i>Cryobiology</i> , <b>2021</b> , 103, 1-1	2.7	0
6	Technologies for Cryoprotectant-Free Vitrification of Human Spermatozoa: Asepticity as a Criterion for Effectiveness <b>2019</b> , 643-654		
5	"Naturalization" of Routine Assisted Reproductive Technologies by In Vitro Culture of Embryos with Microvibration: Sex Ratio, Body Length, and Weight of 2,456 Live-Birth Deliveries after Transfer of 9,624 Embryos In Vitro Cultured in Static System and with Microvibration. <i>BioMed Research International</i> , <b>2017</b> , 2017, 4964053	3	
4	Die Chorioallantoismembran des Huhns. <i>Gynakologische Endokrinologie</i> , <b>2012</b> , 10, 65-67	0.1	
3	Cryopreservation of human oocytes and embryos either by direct plunging into liquid nitrogen or by using an aseptic approach157-168		
2	Aseptic Cryoprotectant-Free Vitrification of Human Spermatozoa by Direct Dropping into a Cooling Agent. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2180, 427-436	1.4	

- 1 Emergency Fertility Preservation in a Young Woman With Non-Hodgkin Lymphoma. *Oncology*, **2021**, 35, 332-334 1.8