Vladimir Isachenko

List of Publications by Year in Descending Order

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	Artificial Ovary for Young Female Breast Cancer Patients.. *Frontiers in Medicine*, **2022**, 9, 837022	4.9	1
107	Aseptic Cryoprotectant-Free Vitrification of Human Spermatozoa by Direct Dropping into a Cooling Agent. *Methods in Molecular Biology*, **2021**, 2180, 427-436	1.4	
106	In vitro activation of cryopreserved ovarian tissue: A single-arm meta-analysis and systematic review. *European Journal of Obstetrics, Gynecology and Reproductive Biology*, **2021**, 258, 258-264	2.4	0
105	Aseptic capillary vitrification of human spermatozoa: Cryoprotectant-free vs. cryoprotectant-included technologies. *Cryobiology*, **2021**, 99, 95-102	2.7	0
104	Biallelic mutations in KATNAL2 cause male infertility due to oligo-astheno-teratozoospermia. *Clinical Genetics*, **2021**, 100, 376-385	4	0
103	Unraveling Subcellular and Ultrastructural Changes During Vitrification of Human Spermatozoa: Effect of a Mitochondria-Targeted Antioxidant and a Permeable Cryoprotectant. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 672862	5.7	3
102	New method of FACS analyzing and sorting of intact whole ovarian fragments (COPAS) after long time (24 h) cooling to 5 °C before cryopreservation. *Cell and Tissue Banking*, **2021**, 22, 487-498	2.2	2
101	Cryo-banking of human spermatozoa by aseptic cryoprotectants-free vitrification in liquid air: Positive effect of elevated warming temperature. *Cell and Tissue Banking*, **2021**, 1	2.2	0
100	Construction and cryopreservation of an artificial ovary in cancer patients as an element of cancer therapy and a promising approach to fertility restoration. *Human Fertility*, **2021**, 1-21	1.9	2
99	Pathogenic Variants in Cause Acephalic Spermatozoa Syndrome. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 676246	5.7	0
98	High cryo-resistance of SARS-CoV-2 virus: Increased risk of re-contamination at transplantation of cryopreserved ovarian tissue after COVID-19 pandemic. *Cryobiology*, **2021**, 103, 1-1	2.7	0
97	Emergency Fertility Preservation in a Young Woman With Non-Hodgkin Lymphoma. *Oncology*, **2021** , 35, 332-334	1.8	
96	Influence of Risk Factors for Male Infertility on Sperm Protein Composition. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
95	Human sperm vitrification: A scientific report. *Andrology*, **2020**, 8, 1642-1650	4.2	13
94	Long-term (24h) cooling of ovarian fragments in the presence of permeable cryoprotectants prior to freezing: Two unsuccesful IVF-cycles and spontaneous pregnancy with baby born after re-transplantation. *Cryobiology*, **2020**, 93, 115-120	2.7	5
93	Aseptic Technology for Cryoprotectant-Free Vitrification of Human Spermatozoa by Direct Dropping into Clean Liquid Air: Apoptosis, Necrosis, Motility, and Viability. *BioMed Research International*, **2020**, 2020, 2934315	3	3
92	Patient with ovarian insufficiency: baby born after anticancer therapy and re-transplantation of cryopreserved ovarian tissue. *Journal of Ovarian Research*, **2020**, 13, 118	5.5	2

91	Evidence of Passive Smoking as a Risk Factor of High-Grade Squamous Intraepithelial Lesion: A Case-Control Study. *Biological and Pharmaceutical Bulletin*, **2020**, 43, 1061-1066	2.3	0
90	Banking of human ovarian tissue potentially contaminated by cancer cells: experimental model for study of cryo-stability of these cells. *Cell and Tissue Banking*, **2020**, 21, 57-63	2.2	2
89	Increasing of malignancy of breast cancer cells after cryopreservation: molecular detection and activation of angiogenesis after CAM-xenotransplantation. *BMC Cancer*, **2020**, 20, 753	4.8	2
88	Overnight ovarian tissue transportation for centralized cryobanking: a feasible option. *Reproductive BioMedicine Online*, **2019**, 38, 740-749	4	30
87	Conventional freezing vs. cryoprotectant-free vitrification of epididymal (MESA) and testicular (TESE) spermatozoa: Three live births. *Cryobiology*, **2019**, 90, 100-102	2.7	14
86	Technologies for Cryoprotectant-Free Vitrification of Human Spermatozoa: Asepticity as a Criterion for Effectiveness **2019**, 643-654		
85	Effect of warming temperatures on donkey sperm vitrification in 0.5 mL straws in comparison to conventional freezing. *Spanish Journal of Agricultural Research*, **2019**, 17, e0406	1.1	5
84	A successful multidisciplinary approach for treatment and for preserving the reproductive potential in a rare case of acute lymphocytic leukemia during pregnancy. *Gynecological Endocrinology*, **2019**, 35, 115-118	2.4	3
83	Cryoprotectant-free vitrification of spermatozoa: Fish as a model of human. *Andrologia*, **2019**, 51, e13166	2.4	7
82	Construction of human artificial ovary from cryopreserved ovarian tissue: Appearance of apoptosis and necrosis after enzymatic isolation of follicles. *Cryobiology*, **2018**, 84, 10-14	2.7	5
81	Cross border reproductive care (CBRC): a growing global phenomenon with multidimensional implications (a systematic and critical review). *Journal of Assisted Reproduction and Genetics*, **2018**, 35, 1277-1288	3.4	29
80	Nitrosative stress in human spermatozoa causes cell death characterized by induction of mitochondrial permeability transition-driven necrosis. *Asian Journal of Andrology*, **2018**, 20, 600-607	2.8	11
79	Vitrification of human pronuclear oocytes by direct plunging into cooling agent: Non sterile liquid nitrogen vs. sterile liquid air. *Cryobiology*, **2018**, 80, 84-88	2.7	9
78	An Experimental Model of Breast Cancer Cells: Informative Protocol for Culture. *Anticancer Research*, **2018**, 38, 6237-6245	2.3	3
77	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. *Reproductive Biology and Endocrinology*, **2018**, 16, 57	5	10
76	Use of the fluorescent dye tetramethylrhodamine methyl ester perchlorate for mitochondrial membrane potential assessment in human spermatozoa. *Andrologia*, **2017**, 49, e12753	2.4	19
75	Chapter 6 Technology of Aseptic Cryoprotectant-Free Vitrification of Human ICSI Spermatozoa. *Methods in Molecular Biology*, **2017**, 1568, 79-84	1.4	4
74	Trehalose sustains a higher post-thaw sperm motility than sucrose in vitrified human sperm. *Andrologia*, **2017**, 49, e12757	2.4	19

73	Technologies of cryoprotectant-free vitrification of human spermatozoa: asepticity as criterion of effectiveness. *Andrology*, **2017**, 5, 1055-1063	4.2	27
72	Effect of incubation temperature after devitrification on quality parameters in human sperm cells. *Cryobiology*, **2017**, 79, 78-81	2.7	8
71	Advances in fertility preservation of female patients with hematological malignancies. *Expert Review of Hematology*, **2017**, 10, 951-960	2.8	7
70	In Vitro Microvibration Increases Implantation Rate After Embryonic Cell Transplantation. *Cell Transplantation*, **2017**, 26, 789-794	4	7
69	Short-term storage of salmonids semen in a sodium alginate-based extender. *Andrologia*, **2017**, 49, e12661	2.4	15
68	"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. *BioMed Research International*, **2017**, 2017, 4964053	3	
67	High temperature is essential for preserved human sperm function during the devitrification process. *Andrologia*, **2016**, 48, 111-3	2.4	28
66	Cryopreservation and xenografting of human ovarian fragments: medulla decreases the phosphatidylserine translocation rate. *Reproductive Biology and Endocrinology*, **2016**, 14, 79	5	16
65	Updates in preserving reproductive potential of prepubertal girls with cancer: Systematic review. *Critical Reviews in Oncology/Hematology*, **2016**, 103, 10-21	7	34
64	Protective effect of butylated hydroxytoluene on sperm function in human spermatozoa cryopreserved by vitrification technique. *Andrologia*, **2015**, 47, 186-93	2.4	25
63	Effect of seminal plasma on Atlantic salmon (Salmo salar) sperm vitrification. *Theriogenology*, **2015**, 83, 238-45.e2	2.8	62
62	Long-Time Cooling before Cryopreservation Decreased Translocation of Phosphatidylserine (Ptd-L-Ser) in Human Ovarian Tissue. *PLoS ONE*, **2015**, 10, e0129108	3.7	20
61	Whole ovine ovaries as a model for human: perfusion with cryoprotectants in vivo and in vitro. *BioMed Research International*, **2014**, 2014, 409019	3	5
60	Vitrificación de espermatozoides: una alternativa a la inyección intracitoplasmática de espermatozoides en paciente con oligoastenozoospermia severa. *Revista Internacional De Andrología*, **2013**, 11, 36-39	0.6	1
59	Viability of human ovarian tissue confirmed 5 years after freezing with spontaneous ice-formation by autografting and chorio-allantoic membrane culture. *Cryobiology*, **2013**, 66, 233-8	2.7	20
58	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. *Cell Transplantation*, **2013**, 22, 2053-61	4	27
57	In vitro perfusion of whole bovine ovaries by freezing medium: effect of perfusion rate and elapsed time after extraction. *Clinical Laboratory*, **2013**, 59, 1159-66	2	4
56	Cryoprotectant-free vitrification of fish (Oncorhynchus mykiss) spermatozoa: first report. *Andrologia*, **2012**, 44 Suppl 1, 390-5	2.4	38

55	Vitrified sperm banks: the new aseptic technique for human spermatozoa allows cryopreservation at -86 °C. *Andrologia*, **2012**, 44, 433-5	2.4	33
54	Live birth after intrauterine insemination with spermatozoa from an oligoasthenozoospermic patient vitrified without permeable cryoprotectants. *Journal of Andrology*, **2012**, 33, 559-62		44
53	Vitrification Technique - New Possibilities for Male Gamete Low-Temperature Storage **2012**,		4
52	Human spermatozoa vitrified in the absence of permeable cryoprotectants: birth of two healthy babies. *Reproduction, Fertility and Development*, **2012**, 24, 323-6	1.8	50
51	Vitrification of human ICSI/IVF spermatozoa without cryoprotectants: new capillary technology. *Journal of Andrology*, **2012**, 33, 462-8		64
50	Die Chorioallantoismembran des Huhns. *Gynakologische Endokrinologie*, **2012**, 10, 65-67	0.1	
49	Cryopreservation of Ovarian Tissue: Detailed Description of Methods for Transport, Freezing and Thawing. *Geburtshilfe Und Frauenheilkunde*, **2012**, 72, 927-932	2	23
48	Comparison of in vitro- and chorioallantoic membrane (CAM)-culture systems for cryopreserved medulla-contained human ovarian tissue. *PLoS ONE*, **2012**, 7, e32549	3.7	43
47	First live birth in germany after re-transplantation of cryopreserved ovarian tissue: original device for initiation of ice formation. *Clinical Laboratory*, **2012**, 58, 933-8	2	20
46	Long-time cooling of human ovarian tissue before cryopreservation as obvious procedure: stimulation of follicular development and neo-vascularisation. *Clinical Laboratory*, **2012**, 58, 1293-300	2	10
45	Fish (Oncorhynchus mykiss) spermatozoa cryoprotectant-free vitrification: stability of mitochondrion as criterion of effectiveness. *Animal Reproduction Science*, **2011**, 124, 125-31	2.1	58
44	Response: Efficacy of ultraviolet sterilization of liquid nitrogen. *Reproductive BioMedicine Online*, **2011**, 22, 502	4	4
43	In-vitro culture of human embryos with mechanical micro-vibration increases implantation rates. *Reproductive BioMedicine Online*, **2011**, 22, 536-44	4	34
42	Canine sperm vitrification with sucrose: effect on sperm function. *Andrologia*, **2011**, 43, 233-41	2.4	58
41	Prevention of ovarian damage and infertility in young female cancer patients awaiting chemotherapy--clinical approach and unsolved issues. *Supportive Care in Cancer*, **2011**, 19, 1909-19	3.9	12
40	Die vaskularisierte Chorioallantoismembran (CAM): ein Kultursystem f□kryokonserviertes menschliches Ovarialgewebe als Alternative zur Xenotransplantation. *Geburtshilfe Und Frauenheilkunde*, **2011**, 71, 862-868	2	1
39	Novel Approaches to the Cryopreservation of Human Spermatozoa: History and Development of the Spermatozoa Vitrification Technology. *Journal of Reproductive and Stem Cell Biotechnology*, **2011**, 2, 128-145		7
38	Cryoprotectant-free vitrification of human spermatozoa in large (up to 0.5 mL) volume: a novel technology. *Clinical Laboratory*, **2011**, 57, 643-50	2	54

37	Genexpression und Morphologie der Follikel nach konventionellem Einfrieren und Vitrifikation von humanem Ovarialgewebe. *Geburtshilfe Und Frauenheilkunde*, **2010**, 70, 561-567	2	3
36	Re-vascularisation in human ovarian tissue after conventional freezing or vitrification and xenotransplantation. *European Journal of Obstetrics, Gynecology and Reproductive Biology*, **2010**, 149, 63-7	2.4	55
35	Human ovarian tissue cryopreservation: quality of follicles as a criteria of effectiveness. *Reproductive BioMedicine Online*, **2010**, 20, 441-2	4	18
34	Human ovarian tissue: vitrification versus conventional freezing. *Human Reproduction*, **2009**, 24, 1767-8; author reply 1768-9	5.7	19
33	Human ovarian tissue vitrification versus conventional freezing: morphological, endocrinological, and molecular biological evaluation. *Reproduction*, **2009**, 138, 319-27	3.8	134
32	Effect of long-term exposure at suprazero temperatures on activity and viability of human ovarian cortex. *Fertility and Sterility*, **2009**, 91, 1556-9	4.8	34
31	Apoptosis in human ovarian tissue after conventional freezing or vitrification and xenotransplantation. *Cryo-Letters*, **2009**, 30, 300-9	0.3	30
30	Cryobanking of human ovarian tissue for anti-cancer treatment: comparison of vitrification and conventional freezing. *Cryo-Letters*, **2009**, 30, 449-54	0.3	20
29	Cryopreservation of human ovarian tissue: effect of spontaneous and initiated ice formation. *Reproductive BioMedicine Online*, **2008**, 16, 336-45	4	33
28	Acrosomal status and mitochondrial activity of human spermatozoa vitrified with sucrose. *Reproduction*, **2008**, 136, 167-73	3.8	118
27	Integrity rate of pronuclei after cryopreservation of pronuclear-zygotes as a criteria for subsequent embryo development and pregnancy. *Human Reproduction*, **2008**, 23, 819-26	5.7	17
26	Simplified technique of human ovarian tissue freezing: quick cooling from -36 degree C. *Cryo-Letters*, **2008**, 29, 261-8	0.3	9
25	Human ovarian tissue preservation: is vitrification acceptable method for assisted reproduction?. *Cryo-Letters*, **2008**, 29, 301-14	0.3	13
24	Vitrification of human laser treated blastocysts within cut standard straws (CSS): novel aseptic packaging and reduced concentrations of cryoprotectants. *Cryobiology*, **2007**, 54, 305-9	2.7	45
23	Cryopreservation of human ovarian tissue: comparison of rapid and conventional freezing. *Cryobiology*, **2007**, 55, 261-8	2.7	76
22	Vitrification in small quenched volumes with a minimal amount of, or without vitrificants: basic biophysics and thermodynamics. *Reproductive Medicine and Assisted Reproductive Techniques Series*, **2007**, 21-32		7
21	Effective method for in-vitro culture of cryopreserved human ovarian tissue. *Reproductive BioMedicine Online*, **2006**, 13, 228-34	4	67
20	Aseptic vitrification of human germinal vesicle oocytes using dimethyl sulfoxide as a cryoprotectant. *Fertility and Sterility*, **2006**, 85, 741-7	4.8	43

19	Vitrification of mouse pronuclear embryos after polar body biopsy without direct contact with liquid nitrogen. *Fertility and Sterility*, **2005**, 84, 1011-6	4.8	34
18	Clean technique for cryoprotectant-free vitrification of human spermatozoa. *Reproductive BioMedicine Online*, **2005**, 10, 350-4	4	109
17	Aseptic technology of vitrification of human pronuclear oocytes using open-pulled straws. *Human Reproduction*, **2005**, 20, 492-6	5.7	81
16	Developmental rate and ultrastructure of vitrified human pronuclear oocytes after step-wise versus direct rehydration. *Human Reproduction*, **2004**, 19, 660-5	5.7	31
15	Cryoprotectant-free cryopreservation of human spermatozoa by vitrification and freezing in vapor: effect on motility, DNA integrity, and fertilization ability. *Biology of Reproduction*, **2004**, 71, 1167-73	3.9	180
14	DNA integrity and motility of human spermatozoa after standard slow freezing versus cryoprotectant-free vitrification. *Human Reproduction*, **2004**, 19, 932-9	5.7	134
13	In-vitro maturation of germinal-vesicle oocytes and cryopreservation in metaphase I/II: a possible additional option to preserve fertility during ovarian tissue cryopreservation. *Reproductive BioMedicine Online*, **2004**, 8, 553-7	4	35
12	Comparison of necrosis in human ovarian tissue after conventional slow freezing or vitrification and transplantation in ovariectomized SCID mice. *Reproductive BioMedicine Online*, **2004**, 9, 187-93	4	51
11	Effect of cryoprotectants on the ultrastructure of cooled human pronuclear oocytes. *Fertility and Sterility*, **2004**, 81, 720-2	4.8	10
10	Ultra-structure of intracellular lipid vesicles of porcine GV-oocytes after in vitro fertilization and parthenogenetic activation. *Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia*, **2003**, 32, 126-8	1.1	6
9	Vitrification of mammalian spermatozoa in the absence of cryoprotectants: from past practical difficulties to present success. *Reproductive BioMedicine Online*, **2003**, 6, 191-200	4	170
8	Modified vitrification of human pronuclear oocytes: efficacy and effect on ultrastructure. *Reproductive BioMedicine Online*, **2003**, 7, 211-6	4	36
7	Cryopreservation of human ovarian tissue by direct plunging into liquid nitrogen. *European Journal of Obstetrics, Gynecology and Reproductive Biology*, **2003**, 108, 186-93	2.4	71
6	Potential importance of vitrification in reproductive medicine. *Biology of Reproduction*, **2002**, 67, 1671-80	3.9	193
5	Vitrification of human spermatozoa without cryoprotectants. *Cryo-Letters*, **2002**, 23, 93-102	0.3	74
4	Cryopreservation of human ovarian tissue by direct plunging into liquid nitrogen: negative effect of disaccharides in vitrification solution. *Cryo-Letters*, **2002**, 23, 333-44	0.3	23
3	Cryopreservation of spermatozoa176-198		7
2	Cryopreservation of human oocytes and embryos either by direct plunging into liquid nitrogen or by using an aseptic approach157-168		

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