

Nicola Bernabè²

List of Publications by Year in descending order

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96
papers

1,474
citations

304743

22
h-index

395702

33
g-index

101
all docs

101
docs citations

101
times ranked

1631
citing authors

#	ARTICLE	IF	CITATIONS
1	ACE2 Receptor and Its Isoform Short-ACE2 Are Expressed on Human Spermatozoa. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3694.	4.1	5
2	Hormones residues in bovine animals: Sampling, analysis and health risk assessment. <i>Steroids</i> , 2022, 181, 108994.	1.8	1
3	Pre-Treatment of Swine Oviductal Epithelial Cells with Progesterone Increases the Sperm Fertilizing Ability in an IVF Model. <i>Animals</i> , 2022, 12, 1191.	2.3	3
4	When Electrospun Fiber Support Matters: In Vitro Ovine Long-Term Folliculogenesis on Poly (Epsilon) Tj ETQq0 0 0 4.1 / Overlock 10 Tf	4.1	6
5	A Set of Dysregulated Target Genes to Reduce Neuroinflammation at Molecular Level. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7175.	4.1	1
6	P-030 ACE2 receptor and its isoform short-ACE2 are expressed on human spermatozoa. <i>Human Reproduction</i> , 2022, 37, .	0.9	0
7	Graphene and Reproduction: A Love-Hate Relationship. <i>Nanomaterials</i> , 2021, 11, 547.	4.1	5
8	The impact of five years storage/biobanking at ~80°C on mouse spermatozoa fertility, physiology, and function. <i>Andrology</i> , 2021, 9, 989-999.	3.5	4
9	OTX015 Epi-Drug Exerts Antitumor Effects in Ovarian Cancer Cells by Blocking GNL3-Mediated Radioresistance Mechanisms: Cellular, Molecular and Computational Evidence. <i>Cancers</i> , 2021, 13, 1519.	3.7	7
10	Role and Modulation of TRPV1 in Mammalian Spermatozoa: An Updated Review. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4306.	4.1	12
11	Circulating Endocannabinoids as Diagnostic Markers of Canine Chronic Enteropathies: A Pilot Study. <i>Frontiers in Veterinary Science</i> , 2021, 8, 655311.	2.2	5
12	P458 A computational biology approach to improve in-vitro folliculogenesis. <i>Human Reproduction</i> , 2021, 36, .	0.9	0
13	In Vitro Folliculogenesis in Mammalian Models: A Computational Biology Study. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 737912.	3.5	2
14	Equine Chorionic Gonadotropin as an Effective FSH Replacement for In Vitro Ovine Follicle and Oocyte Development. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12422.	4.1	5
15	Human Immune System Disease Networks and Female Oviductal Microenvironment: New Horizons to be Discovered. <i>Frontiers in Genetics</i> , 2021, 12, 795123.	2.3	1
16	Effects of P4 Antagonist RU486 on VEGF and Its Receptors' Signaling during the In Vivo Transition from the Preovulatory to Perioovulatory Phase of Ovarian Follicles. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13520.	4.1	2
17	Mimicking the temperature gradient between the sow's oviduct and uterus improves in vitro embryo culture output. <i>Molecular Human Reproduction</i> , 2020, 26, 748-759.	2.8	7
18	Development of a new liquid chromatography-tandem mass spectrometry method for the determination of hormones in bovine muscle. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 190, 113550.	2.8	3

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19	Clinically relevant radioresistant rhabdomyosarcoma cell lines: functional, molecular and immune-related characterization. <i>Journal of Biomedical Science</i> , 2020, 27, 90.	7.0	18
20	Two-Player Game in a Complex Landscape: 26S Proteasome, PKA, and Intracellular Calcium Concentration Modulate Mammalian Sperm Capacitation by Creating an Integrated Dialogue—A Computational Analysis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6256.	4.1	8
21	Editorial: Bisphenols and Male Reproductive Health. <i>Frontiers in Endocrinology</i> , 2020, 11, 597609.	3.5	3
22	Transcriptomic and computational analysis identified LPA metabolism, KLHL14 and KCNE3 as novel regulators of Epithelial-Mesenchymal Transition. <i>Scientific Reports</i> , 2020, 10, 4180.	3.3	9
23	Graphene Oxide Improves in vitro Fertilization in Mice With No Impact on Embryo Development and Preserves the Membrane Microdomains Architecture. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 629.	4.1	7
24	LC-MS/MS method for the determination of hormones: Validation, application and health risk assessment in various bovine matrices. <i>Food and Chemical Toxicology</i> , 2020, 138, 111204.	3.6	13
25	Progesterone induces sperm release from oviductal epithelial cells by modifying sperm proteomics, lipidomics and membrane fluidity. <i>Molecular and Cellular Endocrinology</i> , 2020, 504, 110723.	3.2	20
26	Characterization of Endocannabinoid System and Interleukin Profiles in Ovine AEC: Cannabinoid Receptors Type-1 and Type-2 as Key Effectors of Pro-Inflammatory Response. <i>Cells</i> , 2020, 9, 1008.	4.1	4
27	Cyclin—CDK Complexes are Key Controllers of Capacitation-Dependent Actin Dynamics in Mammalian Spermatozoa. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4236.	4.1	7
28	ABHD2 Inhibitor Identified by Activity-Based Protein Profiling Reduces Acrosome Reaction. <i>ACS Chemical Biology</i> , 2019, 14, 2295-2304.	3.4	10
29	Graphene oxide: A glimmer of hope for Assisted Reproductive Technology. <i>Carbon</i> , 2019, 150, 518-530.	10.3	7
30	Graphene Oxide increases mammalian spermatozoa fertilizing ability by extracting cholesterol from their membranes and promoting capacitation. <i>Scientific Reports</i> , 2019, 9, 8155.	3.3	13
31	In Vitro Effect of Estradiol and Progesterone on Ovine Amniotic Epithelial Cells. <i>Stem Cells International</i> , 2019, 2019, 1-14.	2.5	9
32	Graphene oxide affects in vitro fertilization outcome by interacting with sperm membrane in an animal model. <i>Carbon</i> , 2018, 129, 428-437.	10.3	28
33	Therapeutic potential of hAECs for early Achilles tendon defect repair through regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1594-e1608.	2.7	37
34	Artificial Neural Network to Predict Varicocele Impact on Male Fertility through Testicular Endocannabinoid Gene Expression Profiles. <i>BioMed Research International</i> , 2018, 2018, 1-15.	1.9	5
35	A Scientometric Study on Graphene and Related Graphene- Based Materials in Medicine. , 2018, , .		0
36	Putative human sperm Interactome: a networks study. <i>BMC Systems Biology</i> , 2018, 12, 52.	3.0	6

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37	Innovative multi-protectoral approach increases survival rate after vitrification of ovarian tissue and isolated follicles with improved results in comparison with conventional method. <i>Journal of Ovarian Research</i> , 2018, 11, 65.	3.0	16
38	Progesterone prevents epithelial-mesenchymal transition of ovine amniotic epithelial cells and enhances their immunomodulatory properties. <i>Scientific Reports</i> , 2017, 7, 3761.	3.3	35
39	Depletion of follicular dendritic cells in tonsils collected from PMWS-affected pigs. <i>Archives of Virology</i> , 2017, 162, 1281-1287.	2.1	3
40	Aminopurvalanol A, a Potent, Selective, and Cell Permeable Inhibitor of Cyclins/Cdk Complexes, Causes the Reduction of in Vitro Fertilizing Ability of Boar Spermatozoa, by Negatively Affecting the Capacitation-Dependent Actin Polymerization. <i>Frontiers in Physiology</i> , 2017, 8, 1097.	2.8	5
41	Scientometric study of the effects of exposure to non-ionizing electromagnetic fields on fertility: A contribution to understanding the reasons of partial failure. <i>PLoS ONE</i> , 2017, 12, e0187890.	2.5	9
42	Networks Models of Actin Dynamics during Spermatozoa Postejaculatory Life: A Comparison among Human-Made and Text Mining-Based Models. <i>BioMed Research International</i> , 2016, 2016, 1-8.	1.9	5
43	Circadian Rhythm and Stress Response in Droppings of <i>Serinus canaria</i> . <i>Veterinary Medicine International</i> , 2016, 2016, 1-9.	1.5	8
44	A scientometric analysis of reproductive medicine. <i>Scientometrics</i> , 2016, 109, 103-120.	3.0	8
45	The maturation of murine spermatozoa membranes within the epididymis, a computational biology perspective. <i>Systems Biology in Reproductive Medicine</i> , 2016, 62, 299-308.	2.1	8
46	Effect of Non-Ionizing Electromagnetic Fields of Anthropogenic Origin on Male Fertility. <i>Current Chemical Biology</i> , 2016, 10, 18-31.	0.5	2
47	Signal transduction in the activation of spermatozoa compared to other signalling pathways: a biological networks study. <i>International Journal of Data Mining and Bioinformatics</i> , 2015, 12, 59.	0.1	15
48	Capacitation-Related Lipid Remodeling of Mammalian Spermatozoa Membrane Determines the Final Fate of Male Gametes: A Computational Biology Study. <i>OMICS A Journal of Integrative Biology</i> , 2015, 19, 712-721.	2.0	18
49	Effect of Antiprogestosterone RU486 on VEGF Expression and Blood Vessel Remodeling on Ovarian Follicles before Ovulation. <i>PLoS ONE</i> , 2014, 9, e95910.	2.5	20
50	The biological networks in studying cell signal transduction complexity: The examples of sperm capacitation and of endocannabinoid system. <i>Computational and Structural Biotechnology Journal</i> , 2014, 11, 11-21.	4.1	14
51	Network Analyses of Sperm-Egg Recognition and Binding: Ready to Rethink Fertility Mechanisms?. <i>OMICS A Journal of Integrative Biology</i> , 2014, 18, 740-753.	2.0	13
52	Retrospective and Prospective Investigations about Quatrefoil-Erythrocytes in Canine Blood Smears. <i>Veterinary Medicine International</i> , 2014, 2014, 1-10.	1.5	3
53	Acute exposure to a 20 mT static magnetic field affects ionic homeostasis of in vitro grown porcine granulosa cells. <i>Bioelectromagnetics</i> , 2014, 35, 231-234.	1.6	14
54	Effect of electric current stimulation in combination with external fixator on bone healing in a sheep fracture model. <i>Veterinaria Italiana</i> , 2014, 50, 249-57.	0.5	5

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55	Assessment of motor laterality in foals and young horses (<i>Equus caballus</i>) through an analysis of derailment at trot. <i>Physiology and Behavior</i> , 2013, 109, 8-13.	2.1	29
56	Systems Biology Analysis of the Endocannabinoid System Reveals a Scale-free Network with Distinct Roles for Anandamide and 2-Arachidonoylglycerol. <i>OMICS A Journal of Integrative Biology</i> , 2013, 17, 646-654.	2.0	13
57	Quantitative assessment of bronchiolar smooth muscle in healthy and diseased porcine lungs. <i>Research in Veterinary Science</i> , 2013, 94, 641-643.	1.9	0
58	Prolonged in vitro expansion partially affects phenotypic features and osteogenic potential of ovine amniotic fluid-derived mesenchymal stromal cells. <i>Cytotherapy</i> , 2013, 15, 930-950.	0.7	25
59	Postpartum reproductive activities and gestation length in Martina Franca jennies, an endangered Italian donkey breed. <i>Theriogenology</i> , 2013, 80, 120-124.	2.1	14
60	H3K9 Trimethylation Precedes DNA Methylation during Sheep Oogenesis. <i>Journal of Histochemistry and Cytochemistry</i> , 2013, 61, 75-89.	2.5	25
61	Chronic exposure to a 2 mT static magnetic field affects the morphology, the metabolism and the function of <i>in vitro</i> cultured swine granulosa cells. <i>Electromagnetic Biology and Medicine</i> , 2013, 32, 536-550.	1.4	12
62	Characterization, <i>in vivo</i> GFP Gene Nucleofection, and Allotransplantation in Injured Tendons of Ovine Amniotic Fluid-Derived Stem Cells. <i>Cell Transplantation</i> , 2013, 22, 99-117.	2.5	25
63	Computational Modeling of Spermatozoa Signal Transduction Pathways: Just a Computer Game or a Reliable Tool in Studying Male Gametes Function?. <i>Journal of Computer Science and Systems Biology</i> , 2013, 06, .	0.0	3
64	Endocannabinoid-binding CB1 and TRPV1 receptors as modulators of sperm capacitation. <i>Communicative and Integrative Biology</i> , 2012, 5, 68-70.	1.4	17
65	Achilles Tendon Regeneration can be Improved by Amniotic Epithelial Cell Allotransplantation. <i>Cell Transplantation</i> , 2012, 21, 2377-2395.	2.5	74
66	DNA uptake in swine sperm: Effect of plasmid topology and methyl- β -cyclodextrin-mediated cholesterol depletion. <i>Molecular Reproduction and Development</i> , 2012, 79, 853-860.	2.0	4
67	Retrospective and observational investigation of canine microcytosis in relationship to sex, breed, diseases, and other complete blood count parameters. <i>Comparative Clinical Pathology</i> , 2012, 21, 545-553.	0.7	7
68	Role of Actin in Spermatozoa Function Through Biological Network Theory. , 2012, , 33-37.		0
69	Consciousness-raising in animal welfare through practical experience with horses. <i>Open Journal of Animal Sciences</i> , 2012, 02, 49-55.	0.6	0
70	The role of actin in capacitation-related signaling: an in silico and in vitro study. <i>BMC Systems Biology</i> , 2011, 5, 47.	3.0	31
71	Type-1 Cannabinoid Receptors Reduce Membrane Fluidity of Capacitated Boar Sperm by Impairing Their Activation by Bicarbonate. <i>PLoS ONE</i> , 2011, 6, e23038.	2.5	16
72	Bicarbonate Induces Membrane Reorganization and CBR1 and TRPV1 Endocannabinoid Receptor Migration in Lipid Microdomains in Capacitating Boar Spermatozoa. <i>Journal of Membrane Biology</i> , 2010, 238, 33-41.	2.1	32

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73	Role of TRPV1 channels during the acquisition of fertilizing ability in boar spermatozoa. <i>Veterinary Research Communications</i> , 2010, 34, 5-8.	1.6	6
74	The spermatozoa caught in the net: the biological networks to study the male gametes post-ejaculatory life. <i>BMC Systems Biology</i> , 2010, 4, 87.	3.0	22
75	Role of TRPV1 channels in boar spermatozoa acquisition of fertilizing ability. <i>Molecular and Cellular Endocrinology</i> , 2010, 323, 224-231.	3.2	44
76	Extremely low frequency electromagnetic field exposure affects fertilization outcome in swine animal model. <i>Theriogenology</i> , 2010, 73, 1293-1305.	2.1	47
77	Vascular supply as a discriminating factor for pig preantral follicle selection. <i>Reproduction</i> , 2009, 137, 45-58.	2.6	19
78	Lipidic microdomain reorganization during the in vitro capacitation of boar spermatozoa. <i>Veterinary Research Communications</i> , 2009, 33, 81-83.	1.6	0
79	Blood vessel remodeling in pig ovarian follicles during the periovulatory period: an immunohistochemistry and SEM-corrosion casting study. <i>Reproductive Biology and Endocrinology</i> , 2009, 7, 72.	3.3	42
80	Factors affecting TRPV1 receptor immunolocalization in boar spermatozoa capacitated in vitro. <i>Veterinary Research Communications</i> , 2008, 32, 103-105.	1.6	5
81	Role of VEGF in pig preantral follicles. <i>Veterinary Research Communications</i> , 2008, 32, 155-157.	1.6	1
82	Meiotic Maturation of Incompetent Prepubertal Sheep Oocytes Is Induced by Paracrine Factor(s) Released by Gonadotropin-Stimulated Oocyte-Cumulus Cell Complexes and Involves Mitogen-Activated Protein Kinase Activation. <i>Endocrinology</i> , 2008, 149, 100-107.	2.8	26
83	Effects of 50Hz extremely low frequency magnetic field on the morphology and function of boar spermatozoa capacitated in vitro. <i>Theriogenology</i> , 2007, 67, 801-815.	2.1	47
84	Modifications in chromatin morphology and organization during sheep oogenesis. <i>Microscopy Research and Technique</i> , 2007, 70, 733-744.	2.2	32
85	Effect of CB1 Receptors on Boar Sperm Plasma Membrane. <i>Veterinary Research Communications</i> , 2007, 31, 189-191.	1.6	0
86	Role of the Endogenous Cannabinoid System on Function of Boar Spermatozoa. <i>Veterinary Research Communications</i> , 2006, 30, 195-198.	1.6	1
87	Spatio-temporal analysis of vascular endothelial growth factor expression and blood vessel remodelling in pig ovarian follicles during the periovulatory period. <i>Journal of Molecular Endocrinology</i> , 2006, 36, 107-119.	2.5	29
88	Ethotest: A new model to identify (shelter) dogs'™ skills as service animals or adoptable pets. <i>Applied Animal Behaviour Science</i> , 2005, 95, 103-122.	1.9	34
89	Characterization of the endocannabinoid system in boar spermatozoa and implications for sperm capacitation and acrosome reaction. <i>Journal of Cell Science</i> , 2005, 118, 4393-4404.	2.0	186
90	Signalling Compartmentalization Involved in the Boar Sperm Acrosome Reaction. <i>Veterinary Research Communications</i> , 2004, 28, 157-160.	1.6	0

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91	Ovarian follicle vascularization in fasted pig. <i>Theriogenology</i> , 2004, 62, 943-957.	2.1	15
92	Cumulus cells steroidogenesis is influenced by the degree of oocyte maturation. <i>Reproductive Biology and Endocrinology</i> , 2003, 1, 45.	3.3	31
93	Donor-Dependent Developmental Competence of Oocytes from Lambs Subjected to Repeated Hormonal Stimulation ¹ . <i>Biology of Reproduction</i> , 2003, 69, 278-285.	2.7	38
94	Preovulatory rise of NGF in ovine follicular fluid: Possible involvement in the control of oocyte maturation. <i>Microscopy Research and Technique</i> , 2002, 59, 516-521.	2.2	27
95	Membrane Dynamics of Spermatozoa during Capacitation: New Insight in Germ Cells Signalling. , 0, , .		2
96	European Joint Doctorates: myth or reality?. , 0, , .		1