Nicola BernabÃ²

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	Characterization of the endocannabinoid system in boar spermatozoa and implications for sperm capacitation and acrosome reaction. Journal of Cell Science, 2005, 118, 4393-4404.	2.0	186
2	Achilles Tendon Regeneration can be Improved by Amniotic Epithelial Cell Allotransplantation. Cell Transplantation, 2012, 21, 2377-2395.	2.5	74
3	Effects of 50Hz extremely low frequency magnetic field on the morphology and function of boar spermatozoa capacitated in vitro. Theriogenology, 2007, 67, 801-815.	2.1	47
4	Extremely low frequency electromagnetic field exposure affects fertilization outcome in swine animal model. Theriogenology, 2010, 73, 1293-1305.	2.1	47
5	Role of TRPV1 channels in boar spermatozoa acquisition of fertilizing ability. Molecular and Cellular Endocrinology, 2010, 323, 224-231.	3.2	44
6	Blood vessel remodeling in pig ovarian follicles during the periovulatory period: an immunohistochemistry and SEM-corrosion casting study. Reproductive Biology and Endocrinology, 2009, 7, 72.	3.3	42
7	Donor-Dependent Developmental Competence of Oocytes from Lambs Subjected to Repeated Hormonal Stimulation1. Biology of Reproduction, 2003, 69, 278-285.	2.7	38
8	Therapeutic potential of hAECs for early Achilles tendon defect repair through regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1594-e1608.	2.7	37
9	Progesterone prevents epithelial-mesenchymal transition of ovine amniotic epithelial cells and enhances their immunomodulatory properties. Scientific Reports, 2017, 7, 3761.	3.3	35
10	Ethotest: A new model to identify (shelter) dogsâ€™ skills as service animals or adoptable pets. Applied Animal Behaviour Science, 2005, 95, 103-122.	1.9	34
11	Modifications in chromatin morphology and organization during sheep oogenesis. Microscopy Research and Technique, 2007, 70, 733-744.	2.2	32
12	Bicarbonate Induces Membrane Reorganization and CBR1 and TRPV1 Endocannabinoid Receptor Migration in Lipid Microdomains in Capacitating Boar Spermatozoa. Journal of Membrane Biology, 2010, 238, 33-41.	2.1	32
13	Cumulus cells steroidogenesis is influenced by the degree of oocyte maturation. Reproductive Biology and Endocrinology, 2003, 1, 45.	3.3	31
14	The role of actin in capacitation-related signaling: an in silico and in vitro study. BMC Systems Biology, 2011, 5, 47.	3.0	31
15	Spatio-temporal analysis of vascular endothelial growth factor expression and blood vessel remodelling in pig ovarian follicles during the periovulatory period. Journal of Molecular Endocrinology, 2006, 36, 107-119.	2.5	29
16	Assessment of motor laterality in foals and young horses (Equus caballus) through an analysis of derailment at trot. Physiology and Behavior, 2013, 109, 8-13.	2.1	29
17	Graphene oxide affects inÂvitro fertilization outcome by interacting with sperm membrane in an animal model. Carbon, 2018, 129, 428-437.	10.3	28
18	Preovulatory rise of NGF in ovine follicular fluid: Possible involvement in the control of oocyte maturation. Microscopy Research and Technique, 2002, 59, 516-521.	2.2	27

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19	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. Endocrinology, 2008, 149, 100-107.	2.8	26
20	Prolonged in vitro expansion partially affects phenotypic features and osteogenic potential of ovine amniotic fluid-derived mesenchymal stromal cells. Cytotherapy, 2013, 15, 930-950.	0.7	25
21	H3K9 Trimethylation Precedes DNA Methylation during Sheep Oogenesis. Journal of Histochemistry and Cytochemistry, 2013, 61, 75-89.	2.5	25
22	Characterization, GFP Gene Nucleofection, and Allotransplantation in Injured Tendons of Ovine Amniotic Fluid-Derived Stem Cells. Cell Transplantation, 2013, 22, 99-117.	2.5	25
23	The spermatozoa caught in the net: the biological networks to study the male gametes post-ejaculatory life. BMC Systems Biology, 2010, 4, 87.	3.0	22
24	Effect of Antiprogesterone RU486 on VEGF Expression and Blood Vessel Remodeling on Ovarian Follicles before Ovulation. PLoS ONE, 2014, 9, e95910.	2.5	20
25	Progesterone induces sperm release from oviductal epithelial cells by modifying sperm proteomics, lipidomics and membrane fluidity. Molecular and Cellular Endocrinology, 2020, 504, 110723.	3.2	20
26	Vascular supply as a discriminating factor for pig preantral follicle selection. Reproduction, 2009, 137, 45-58.	2.6	19
27	Capacitation-Related Lipid Remodeling of Mammalian Spermatozoa Membrane Determines the Final Fate of Male Gametes: A Computational Biology Study. OMICS A Journal of Integrative Biology, 2015, 19, 712-721.	2.0	18
28	Clinically relevant radioresistant rhabdomyosarcoma cell lines: functional, molecular and immune-related characterization. Journal of Biomedical Science, 2020, 27, 90.	7.0	18
29	Endocannabinoid-binding CB1 and TRPV1 receptors as modulators of sperm capacitation. Communicative and Integrative Biology, 2012, 5, 68-70.	1.4	17
30	Innovative multi-protectoral approach increases survival rate after vitrification of ovarian tissue and isolated follicles with improved results in comparison with conventional method. Journal of Ovarian Research, 2018, 11, 65.	3.0	16
31	Type-1 Cannabinoid Receptors Reduce Membrane Fluidity of Capacitated Boar Sperm by Impairing Their Activation by Bicarbonate. PLoS ONE, 2011, 6, e23038.	2.5	16
32	Ovarian follicle vascularization in fasted pig. Theriogenology, 2004, 62, 943-957.	2.1	15
33	Signal transduction in the activation of spermatozoa compared to other signalling pathways: a biological networks study. International Journal of Data Mining and Bioinformatics, 2015, 12, 59.	0.1	15
34	Postpartum reproductive activities and gestation length in Martina Franca jennies, an endangered Italian donkey breed. Theriogenology, 2013, 80, 120-124.	2.1	14
35	The biological networks in studying cell signal transduction complexity: The examples of sperm capacitation and of endocannabinoid system. Computational and Structural Biotechnology Journal, 2014, 11, 11-21.	4.1	14
36	Acute exposure to a 2â€‰mT static magnetic field affects ionic homeostasis of in vitro grown porcine granulosa cells. Bioelectromagnetics, 2014, 35, 231-234.	1.6	14

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37	Systems Biology Analysis of the Endocannabinoid System Reveals a Scale-free Network with Distinct Roles for Anandamide and 2-Arachidonoylglycerol. OMICS A Journal of Integrative Biology, 2013, 17, 646-654.	2.0	13
38	Network Analyses of Spermâ€“Egg Recognition and Binding: Ready to Rethink Fertility Mechanisms?. OMICS A Journal of Integrative Biology, 2014, 18, 740-753.	2.0	13
39	Graphene Oxide increases mammalian spermatozoa fertilizing ability by extracting cholesterol from their membranes and promoting capacitation. Scientific Reports, 2019, 9, 8155.	3.3	13
40	LC-MS/MS method for the determination of hormones: Validation, application and health risk assessment in various bovine matrices. Food and Chemical Toxicology, 2020, 138, 111204.	3.6	13
41	Chronic exposure to a 2 mT static magnetic field affects the morphology, the metabolism and the function ofin vitrocultured swine granulosa cells. Electromagnetic Biology and Medicine, 2013, 32, 536-550.	1.4	12
42	Role and Modulation of TRPV1 in Mammalian Spermatozoa: An Updated Review. International Journal of Molecular Sciences, 2021, 22, 4306.	4.1	12
43	ABHD2 Inhibitor Identified by Activity-Based Protein Profiling Reduces Acrosome Reaction. ACS Chemical Biology, 2019, 14, 2295-2304.	3.4	10
44	Scientometric study of the effects of exposure to non-ionizing electromagnetic fields on fertility: A contribution to understanding the reasons of partial failure. PLoS ONE, 2017, 12, e0187890.	2.5	9
45	In Vitro Effect of Estradiol and Progesterone on Ovine Amniotic Epithelial Cells. Stem Cells International, 2019, 2019, 1-14.	2.5	9
46	Transcriptomic and computational analysis identified LPA metabolism, KLHL14 and KCNE3 as novel regulators of Epithelial-Mesenchymal Transition. Scientific Reports, 2020, 10, 4180.	3.3	9
47	Circadian Rhythm and Stress Response in Droppings ofSerinus canaria. Veterinary Medicine International, 2016, 2016, 1-9.	1.5	8
48	A scientometric analysis of reproductive medicine. Scientometrics, 2016, 109, 103-120.	3.0	8
49	The maturation of murine spermatozoa membranes within the epididymis, a computational biology perspective. Systems Biology in Reproductive Medicine, 2016, 62, 299-308.	2.1	8
50	Two-Player Game in a Complex Landscape: 26S Proteasome, PKA, and Intracellular Calcium Concentration Modulate Mammalian Sperm Capacitation by Creating an Integrated Dialogueâ€”A Computational Analysis. International Journal of Molecular Sciences, 2020, 21, 6256.	4.1	8
51	Retrospective and observational investigation of canine microcytosis in relationship to sex, breed, diseases, and other complete blood count parameters. Comparative Clinical Pathology, 2012, 21, 545-553.	0.7	7
52	Cyclinâ€“CDK Complexes are Key Controllers of Capacitation-Dependent Actin Dynamics in Mammalian Spermatozoa. International Journal of Molecular Sciences, 2019, 20, 4236.	4.1	7
53	Graphene oxide: A glimmer of hope for Assisted Reproductive Technology. Carbon, 2019, 150, 518-530.	10.3	7
54	Mimicking the temperature gradient between the sowâ€™s oviduct and uterus improves in vitro embryo culture output. Molecular Human Reproduction, 2020, 26, 748-759.	2.8	7

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55	Graphene Oxide Improves in vitro Fertilization in Mice With No Impact on Embryo Development and Preserves the Membrane Microdomains Architecture. Frontiers in Bioengineering and Biotechnology, 2020, 8, 629.	4.1	7
56	OTX015 Epi-Drug Exerts Antitumor Effects in Ovarian Cancer Cells by Blocking GNL3-Mediated Radioresistance Mechanisms: Cellular, Molecular and Computational Evidence. Cancers, 2021, 13, 1519.	3.7	7
57	Role of TRPV1 channels during the acquisition of fertilizing ability in boar spermatozoa. Veterinary Research Communications, 2010, 34, 5-8.	1.6	6
58	Putative human sperm Interactome: a networks study. BMC Systems Biology, 2018, 12, 52.	3.0	6
59	When Electrospun Fiber Support Matters: In Vitro Ovine Long-Term Folliculogenesis on Poly (Epsilon) Tj ETQq1 1 0.784314 rgBT /Ove	4.1	6
60	Factors affecting TRPV1 receptor immunolocalization in boar spermatozoa capacitated in vitro. Veterinary Research Communications, 2008, 32, 103-105.	1.6	5
61	Networks Models of Actin Dynamics during Spermatozoa Postejaculatory Life: A Comparison among Human-Made and Text Mining-Based Models. BioMed Research International, 2016, 2016, 1-8.	1.9	5
62	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. Frontiers in Physiology, 2017, 8, 1097.	2.8	5
63	Artificial Neural Network to Predict Varicocele Impact on Male Fertility through Testicular Endocannabinoid Gene Expression Profiles. BioMed Research International, 2018, 2018, 1-15.	1.9	5
64	Graphene and Reproduction: A Love-Hate Relationship. Nanomaterials, 2021, 11, 547.	4.1	5
65	Circulating Endocannabinoids as Diagnostic Markers of Canine Chronic Enteropathies: A Pilot Study. Frontiers in Veterinary Science, 2021, 8, 655311.	2.2	5
66	Equine Chorionic Gonadotropin as an Effective FSH Replacement for In Vitro Ovine Follicle and Oocyte Development. International Journal of Molecular Sciences, 2021, 22, 12422.	4.1	5
67	ACE2 Receptor and Its Isoform Short-ACE2 Are Expressed on Human Spermatozoa. International Journal of Molecular Sciences, 2022, 23, 3694.	4.1	5
68	Effect of electric current stimulation in combination with external fixator on bone healing in a sheep fracture model. Veterinaria Italiana, 2014, 50, 249-57.	0.5	5
69	DNA uptake in swine sperm: Effect of plasmid topology and methylâ€betaâ€cyclodextrinâ€mediated cholesterol depletion. Molecular Reproduction and Development, 2012, 79, 853-860.	2.0	4
70	Characterization of Endocannabinoid System and Interleukin Profiles in Ovine AEC: Cannabinoid Receptors Type-1 and Type-2 as Key Effectors of Pro-Inflammatory Response. Cells, 2020, 9, 1008.	4.1	4
71	The impact of five years storage/biobanking at â^'80Â°C on mouse spermatozoa fertility, physiology, and function. Andrology, 2021, 9, 989-999.	3.5	4
72	Retrospective and Prospective Investigations about â€œQuatrefoilâ€•Erythrocytes in Canine Blood Smears. Veterinary Medicine International, 2014, 2014, 1-10.	1.5	3

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73	Depletion of follicular dendritic cells in tonsils collected from PMWS-affected pigs. Archives of Virology, 2017, 162, 1281-1287.	2.1	3
74	Development of a new liquid chromatography-tandem mass spectrometry method for the determination of hormones in bovine muscle. Journal of Pharmaceutical and Biomedical Analysis, 2020, 190, 113550.	2.8	3
75	Editorial: Bisphenols and Male Reproductive Health. Frontiers in Endocrinology, 2020, 11, 597609.	3.5	3
76	Computational Modeling of Spermatozoa Signal Transduction Pathways: Just a Computer Game or a Reliable Tool in Studying Male Gametes Function?. Journal of Computer Science and Systems Biology, 2013, 06, .	0.0	3
77	Pre-Treatment of Swine Oviductal Epithelial Cells with Progesterone Increases the Sperm Fertilizing Ability in an IVF Model. Animals, 2022, 12, 1191.	2.3	3
78	Membrane Dynamics of Spermatozoa during Capacitation: New Insight in Germ Cells Signalling. , 0, , .		2
79	Effect of Non-Ionizing Electromagnetic Fields of Anthropic Origin on Male Fertility. Current Chemical Biology, 2016, 10, 18-31.	0.5	2
80	In Vitro Folliculogenesis in Mammalian Models: A Computational Biology Study. Frontiers in Molecular Biosciences, 2021, 8, 737912.	3.5	2
81	Effects of P4 Antagonist RU486 on VEGF and Its Receptorsâ€™ Signaling during the In Vivo Transition from the Preovulatory to Periovulatory Phase of Ovarian Follicles. International Journal of Molecular Sciences, 2021, 22, 13520.	4.1	2
82	Role of the Endogenous Cannabinoid System on Function of Boar Spermatozoa. Veterinary Research Communications, 2006, 30, 195-198.	1.6	1
83	Role of VEGF in pig preantral follicles. Veterinary Research Communications, 2008, 32, 155-157.	1.6	1
84	European Joint Doctorates: myth or reality?. , 0, , .		1
85	Human Immune System Diseasome Networks and Female Oviductal Microenvironment: New Horizons to be Discovered. Frontiers in Genetics, 2021, 12, 795123.	2.3	1
86	Hormones residues in bovine animals: Sampling, analysis and health risk assessment. Steroids, 2022, 181, 108994.	1.8	1
87	A Set of Dysregulated Target Genes to Reduce Neuroinflammation at Molecular Level. International Journal of Molecular Sciences, 2022, 23, 7175.	4.1	1
88	Signalling Compartmentalization Involved in the Boar Sperm Acrosome Reaction. Veterinary Research Communications, 2004, 28, 157-160.	1.6	0
89	Effect of CB1 Receptors on Boar Sperm Plasma Membrane. Veterinary Research Communications, 2007, 31, 189-191.	1.6	0
90	Lipidic microdomain reorganization during the in vitro capacitation of boar spermatozoa. Veterinary Research Communications, 2009, 33, 81-83.	1.6	0

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91	Quantitative assessment of bronchiolar smooth muscle in healthy and diseased porcine lungs. Research in Veterinary Science, 2013, 94, 641-643.	1.9	0
92	A Scientometric Study on Graphene and Related Graphene- Based Materials in Medicine. , 2018, , .		0
93	Pâ€“458 A computational biology approach to improve in-vitro folliculogenesis. Human Reproduction, 2021, 36, .	0.9	0
94	Role of Actin in Spermatozoa Function Through Biological Network Theory. , 2012, , 33-37.		0
95	Consciousness-raising in animal welfare through practical experience with horses. Open Journal of Animal Sciences, 2012, 02, 49-55.	0.6	0
96	P-030â€ƒACE2 receptor and its isoform short-ACE2 are expressed on human spermatozoa. Human Reproduction, 2022, 37, .	0.9	0