

# Teresa Rigau

## List of Publications by Year in descending order

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63  
papers

2,111  
citations

218677

26  
h-index

243625

44  
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63  
all docs

63  
docs citations

63  
times ranked

1717  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insulinâ€Dependent Diabetes Affects Testicular Function by FSHâ€and LHâ€Linked Mechanisms. Journal of Andrology, 2004, 25, 706-719.	2.0	283
2	Regression analyses and motile sperm subpopulation structure study as improving tools in boar semen quality analysis. Theriogenology, 2004, 61, 673-690.	2.1	112
3	Effects of glucose and fructose on motility patterns of dog spermatozoa from fresh ejaculates. Theriogenology, 2001, 56, 801-815.	2.1	98
4	Sperm motility patterns and metabolism in Catalanian donkey semen. Theriogenology, 2005, 63, 1706-1716.	2.1	76
5	Differential effects of glucose and fructose on hexose metabolism in dog spermatozoa. Reproduction, 2002, 123, 579-591.	2.6	65
6	Effects of freezing/thawing on motile sperm subpopulations of boar and donkey ejaculates. Theriogenology, 2008, 70, 936-945.	2.1	62
7	Evidence for a functional glycogen metabolism in mature mammalian spermatozoa. , 2000, 56, 207-219.		60
8	The Increase in Phosphorylation Levels of Serine Residues of Protein HSP70 during Holding Time at 17Â°C Is Concomitant with a Higher Cryotolerance of Boar Spermatozoa. PLoS ONE, 2014, 9, e90887.	2.5	60
9	Multivariate Cluster Analysis Regression Procedures as Tools to Identify Motile Sperm Subpopulations in Rabbit Semen and to Predict Semen Fertility and Litter Size. Reproduction in Domestic Animals, 2007, 42, 312-319.	1.4	57
10	Dynamics of motile-sperm subpopulation structure in boar ejaculates subjected to â€œin vitroâ€ capacitation and further â€œin vitroâ€ acrosome reaction. Theriogenology, 2008, 69, 501-512.	2.1	57
11	Utilization of citrate and lactate through a lactate dehydrogenase and ATP-regulated pathway in boar spermatozoa. Molecular Reproduction and Development, 2006, 73, 369-378.	2.0	56
12	Reduced glutathione and procaine hydrochloride protect the nucleoprotein structure of boar spermatozoa during freezeâ€thawing by stabilising disulfide bonds. Reproduction, Fertility and Development, 2013, 25, 1036.	0.4	56
13	The Presence and Function of Dopamine Type 2 Receptors in Boar Sperm: A Possible Role for Dopamine in Viability, Capacitation, and Modulation of Sperm Motility1. Biology of Reproduction, 2009, 80, 753-761.	2.7	55
14	Effects of hypoosmotic incubation on acrosome and tail structure on canine spermatozoa. Theriogenology, 1994, 42, 815-829.	2.1	54
15	â€œ<i>In Vitro</i>â€™ Capacitation and Acrosome Reaction are Concomitant with Specific Changes in Mitochondrial Activity in Boar Sperm: Evidence for a Nucleated Mitochondrial Activation and for the Existence of a Capacitationâ€Sensitive Subpopulational Structure. Reproduction in Domestic Animals, 2011, 46, 664-673.	1.4	51
16	Gluconeogenesis-Linked Glycogen Metabolism Is Important in the Achievement of In Vitro Capacitation of Dog Spermatozoa in a Medium Without Glucose1. Biology of Reproduction, 2004, 71, 1437-1445.	2.7	46
17	Effect of 655-nm diode laser on dog sperm motility. Lasers in Medical Science, 2005, 20, 28-34.	2.1	45
18	Effect of different thawing rates on post-thaw sperm viability, kinematic parameters and motile sperm subpopulations structure of bull semen. Animal Reproduction Science, 2008, 109, 50-64.	1.5	45

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19	Freeze-thawing induces alterations in the protamine-1/DNA overall structure in boar sperm. <i>Theriogenology</i> , 2008, 69, 1083-1094.	2.1	44
20	Tungstate Treatment Improves Leydig Cell Function in Streptozotocin-Diabetic Rats. <i>Journal of Andrology</i> , 2005, 26, 706-715.	2.0	40
21	Oestrus cycle characteristics and prediction of ovulation in Catalanian jennies. <i>Theriogenology</i> , 2008, 70, 1489-1497.	2.1	38
22	The effect of low-level laser irradiation on dog spermatozoa motility is dependent on laser output power. <i>Lasers in Medical Science</i> , 2009, 24, 703-713.	2.1	38
23	Effects of dilution and centrifugation on the survival of spermatozoa and the structure of motile sperm cell subpopulations in refrigerated Catalanian donkey semen. <i>Theriogenology</i> , 2009, 72, 1017-1022.	2.1	37
24	Cryopreservation-induced alterations in boar spermatozoa mitochondrial function are related to changes in the expression and location of midpiece mitofusin-2 and actin network. <i>Theriogenology</i> , 2010, 74, 354-363.	2.1	37
25	Tungstate administration improves the sexual and reproductive function in female rats with streptozotocin-induced diabetes. <i>Human Reproduction</i> , 2007, 22, 2128-2135.	0.9	36
26	Hexose-specificity of hexokinase and ADP-dependence of pyruvate kinase play important roles in the control of monosaccharide utilization in freshly diluted boar spermatozoa. <i>Molecular Reproduction and Development</i> , 2006, 73, 1179-1194.	2.0	34
27	Effects of slight agitation on the quality of refrigerated boar sperm. <i>Animal Reproduction Science</i> , 1995, 39, 141-146.	1.5	33
28	Variations in the Proportion of Glycolytic/Non-glycolytic Energy Substrates Modulate Sperm Membrane Integrity and Function in Diluted Boar Samples Stored at 15-17°C. <i>Reproduction in Domestic Animals</i> , 2005, 40, 448-453.	1.4	29
29	The presence of a high-Kmhexokinase activity in dog, but not in boar, sperm. <i>FEBS Letters</i> , 2004, 570, 211-216.	2.8	28
30	Subjecting horse spermatozoa to hypoosmotic incubation: Effects of ouabain. <i>Theriogenology</i> , 1997, 47, 765-784.	2.1	27
31	Resistance to osmotic stress of horse spermatozoa: The role of ionic pumps and their relationship to cryopreservation success. <i>Theriogenology</i> , 1997, 48, 947-968.	2.1	26
32	Natural Mediterranean photoperiod does not affect the main parameters of boar-semen quality analysis. <i>Theriogenology</i> , 2005, 64, 934-946.	2.1	26
33	Effects of ouabain on the response to osmotic changes in dog and boar spermatozoa. <i>Theriogenology</i> , 1996, 45, 873-888.	2.1	24
34	Glucose- and fructose-induced dog-sperm glycogen synthesis shows specific changes in the location of the sperm glycogen deposition. <i>Molecular Reproduction and Development</i> , 2003, 64, 349-359.	2.0	22
35	Adenovirus-mediated introduction of DNA into pig sperm and offspring. <i>Molecular Reproduction and Development</i> , 1999, 53, 149-158.	2.0	20
36	Resistance to hyperosmotic stress in boar spermatozoa: the role of the ionic pumps and the relationship with cryosurvival. <i>Animal Reproduction Science</i> , 1997, 48, 301-315.	1.5	19

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37	In vitro Capacitation and Acrosome Reaction of Dog Spermatozoa can be Feasibly Attained in a Defined Medium Without Glucose. <i>Reproduction in Domestic Animals</i> , 2004, 39, 129-135.	1.4	18
38	The rate of L-lactate production: a feasible parameter for the fresh diluted boar semen quality analysis. <i>Animal Reproduction Science</i> , 1996, 43, 161-172.	1.5	17
39	Effect of column filtration upon the quality parameters of fresh dog semen. <i>Theriogenology</i> , 1998, 50, 1171-1189.	2.1	17
40	Differential effects of glucose and fructose on hexose metabolism in dog spermatozoa. <i>Reproduction</i> , 2002, 123, 579-91.	2.6	17
41	Ion-mediated resistance to osmotic changes of ram spermatozoa: The role of amiloride and ouabain. <i>Theriogenology</i> , 2000, 54, 1453-1467.	2.1	16
42	Effects of Filtration of Semen Doses from Subfertile Boars through Neuter Sephadex Columns. <i>Reproduction in Domestic Animals</i> , 2008, 43, 48-52.	1.4	15
43	Modulation of the biochemical composition of amniotic and allantoic fluids as a control mechanism of feline foetal development. <i>Placenta</i> , 2012, 33, 522-527.	1.5	15
44	In vitro capacitation and subsequent acrosome reaction are related to changes in the expression and location of midpiece actin and mitofusin-2 in boar spermatozoa. <i>Theriogenology</i> , 2012, 77, 979-988.	2.1	14
45	Melatonin affects the motility and adhesiveness of in vitro capacitated boar spermatozoa via a mechanism that does not depend on intracellular ROS levels. <i>Andrology</i> , 2018, 6, 720-736.	3.5	14
46	Effects of Matrix Filtration of Low Quality Boar Semen Doses on Sperm Quality. <i>Reproduction in Domestic Animals</i> , 2009, 44, 499-503.	1.4	12
47	Effects of Constant, 9 and 16-h Light Cycles on Sperm Quality, Semen Storage Ability and Motile Sperm Subpopulations Structure of Boar Semen. <i>Reproduction in Domestic Animals</i> , 2006, 41, 386-393.	1.4	11
48	Placental and uterine expression of GLUT3, but not GLUT1, is related with serum progesterone levels during the first stages of pregnancy in queens. <i>Theriogenology</i> , 2018, 121, 82-90.	2.1	11
49	Uterine and placental specific localization of AQP2 and AQP8 is related with changes of serum progesterone levels in pregnant queens. <i>Theriogenology</i> , 2020, 142, 149-157.	2.1	7
50	OC2 Seasonality Affects on Sperm Motility Kinematic Parameters of Murciano-Granadina Bucks. <i>Reproduction in Domestic Animals</i> , 2006, 41, 103-103.	1.4	6
51	Pro-inflammatory cytokines: Useful markers for the diagnosis of canine mammary tumours?. <i>Veterinary Journal</i> , 2016, 210, 92-94.	1.7	6
52	Partial Foetal Retention Following Aglepristone Treatment in a Bitch. <i>Reproduction in Domestic Animals</i> , 2011, 46, 738-741.	1.4	5
53	Endometrial Status in Queens Evaluated by Histopathology Findings and Two Cytological Techniques: Low-Volume Uterine Lavage and Uterine Swabbing. <i>Animals</i> , 2021, 11, 88.	2.3	4
54	OC3 Morphometry Characterisation of Catalan Donkey Spermatozoa and Identification of Sperm Morphometric Subpopulations. <i>Reproduction in Domestic Animals</i> , 2006, 41, 103-103.	1.4	2

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55	Coagulation parameters do not change during luteal phase and pregnancy in cats. <i>Theriogenology</i> , 2014, 82, 185-188.	2.1	2
56	Medium-term effects of the diluted pig semen irradiation with red LED light on the integrity of nucleoprotein structure and resilience to withstand thermal stress. <i>Theriogenology</i> , 2020, 157, 388-398.	2.1	2
57	Expression of a green fluorescence protein-carrier protein into mouse spermatozoa. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 841-846.	2.1	1
58	Urine glucose concentration: A useful parameter as a surrogate for glycaemia on the first day of life in canine neonates. <i>Research in Veterinary Science</i> , 2020, 133, 59-62.	1.9	1
59	The onset of age-related benign prostatic hyperplasia is concomitant with increased serum and prostatic expression of VEGF in rats: Potential role of VEGF as a marker for early prostatic alterations. <i>Theriogenology</i> , 2022, 183, 69-78.	2.1	1
60	Evaluation of the Probiotic In Vitro Potential of Lactic Acid-Producing Bacteria from Canine Vagina: Possible Role in Vaginal Health. <i>Animals</i> , 2022, 12, 796.	2.3	1
61	L-LACTATE PRODUCTION: A FEASIBLE PARAMETER FOR THE FRESH BOAR SEMEN QUALITY ANALYSIS. <i>Reproduction in Domestic Animals</i> , 1995, 31, 253-254.	1.4	0
62	Effect of 655 nm laser different powers on dog sperm motility parameters. , 2006, 6191, 27.		0
63	Tyrosine phosphorylation is not a relevant mechanism to modulate aquaporin 2 activity in gestational queen endometrium and placenta. <i>Reproduction in Domestic Animals</i> , 2020, 55, 448-453.	1.4	0