

Robert B Gilchrist

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7952598/robert-b-gilchrist-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

7,396
citations

48
h-index

83
g-index

133
ext. papers

8,565
ext. citations

4.7
avg, IF

6.17
L-index

#	Paper	IF	Citations
128	Oocyte-secreted factors: regulators of cumulus cell function and oocyte quality. <i>Human Reproduction Update</i> , 2008 , 14, 159-77	15.8	620
127	Oocyte-somatic cell interactions during follicle development in mammals. <i>Animal Reproduction Science</i> , 2004 , 82-83, 431-46	2.1	340
126	The pivotal role of glucose metabolism in determining oocyte developmental competence. <i>Reproduction</i> , 2010 , 139, 685-95	3.8	293
125	Oocytes prevent cumulus cell apoptosis by maintaining a morphogenic paracrine gradient of bone morphogenetic proteins. <i>Journal of Cell Science</i> , 2005 , 118, 5257-68	5.3	264
124	Oocyte-secreted factors enhance oocyte developmental competence. <i>Developmental Biology</i> , 2006 , 296, 514-21	3.1	261
123	Oocyte maturation: emerging concepts and technologies to improve developmental potential in vitro. <i>Theriogenology</i> , 2007 , 67, 6-15	2.8	230
122	Simulated physiological oocyte maturation (SPOM): a novel in vitro maturation system that substantially improves embryo yield and pregnancy outcomes. <i>Human Reproduction</i> , 2010 , 25, 2999-3011	5.7	197
121	Molecular basis of oocyte-paracrine signalling that promotes granulosa cell proliferation. <i>Journal of Cell Science</i> , 2006 , 119, 3811-21	5.3	171
120	Recent insights into oocyte-follicle cell interactions provide opportunities for the development of new approaches to in vitro maturation. <i>Reproduction, Fertility and Development</i> , 2011 , 23, 23-31	1.8	167
119	Oocyte-secreted factor(s) determine functional differences between bovine mural granulosa cells and cumulus cells. <i>Biology of Reproduction</i> , 2000 , 63, 839-45	3.9	151
118	Anti-Müllerian hormone as a predictor of IVF outcome. <i>Reproductive BioMedicine Online</i> , 2007 , 14, 602-10	4	137
117	Bovine cumulus cell-oocyte gap junctional communication during in vitro maturation in response to manipulation of cell-specific cyclic adenosine 3',5'-monophosphate levels. <i>Biology of Reproduction</i> , 2004 , 70, 548-56	3.9	137
116	TGF- β mediates proinflammatory seminal fluid signaling in human cervical epithelial cells. <i>Journal of Immunology</i> , 2012 , 189, 1024-35	5.3	125
115	The promise of in vitro maturation in assisted reproduction and fertility preservation. <i>Seminars in Reproductive Medicine</i> , 2011 , 29, 24-37	1.4	119
114	Oocyte-secreted factor activation of SMAD 2/3 signaling enables initiation of mouse cumulus cell expansion. <i>Biology of Reproduction</i> , 2007 , 76, 848-57	3.9	114
113	Exogenous growth differentiation factor 9 in oocyte maturation media enhances subsequent embryo development and fetal viability in mice. <i>Human Reproduction</i> , 2008 , 23, 67-73	5.7	113
112	Differential effects of specific phosphodiesterase isoenzyme inhibitors on bovine oocyte meiotic maturation. <i>Developmental Biology</i> , 2002 , 244, 215-25	3.1	112

111	Bidirectional communication between cumulus cells and the oocyte: Old hands and new players?. <i>Theriogenology</i> , 2016 , 86, 62-8	2.8	110
110	Expression of leptin and its receptor in the murine ovary: possible role in the regulation of oocyte maturation. <i>Biology of Reproduction</i> , 2002 , 66, 1548-54	3.9	109
109	Role of oocyte-secreted growth differentiation factor 9 in the regulation of mouse cumulus expansion. <i>Endocrinology</i> , 2005 , 146, 2798-806	4.8	107
108	Neuroendocrine androgen action is a key extraovarian mediator in the development of polycystic ovary syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3334-E3343	11.5	103
107	Oocyte maturation and quality: role of cyclic nucleotides. <i>Reproduction</i> , 2016 , 152, R143-57	3.8	100
106	The epidermal growth factor network: role in oocyte growth, maturation and developmental competence. <i>Human Reproduction Update</i> , 2018 , 24, 1-14	15.8	98
105	Effect of specific phosphodiesterase isoenzyme inhibitors during in vitro maturation of bovine oocytes on meiotic and developmental capacity. <i>Biology of Reproduction</i> , 2004 , 71, 1142-9	3.9	98
104	Androgens augment the mitogenic effects of oocyte-secreted factors and growth differentiation factor 9 on porcine granulosa cells. <i>Biology of Reproduction</i> , 2005 , 73, 825-32	3.9	98
103	Cumulus expansion and glucose utilisation by bovine cumulus-oocyte complexes during in vitro maturation: the influence of glucosamine and follicle-stimulating hormone. <i>Reproduction</i> , 2004 , 128, 313-9	3.8	91
102	Cumulin, an Oocyte-secreted Heterodimer of the Transforming Growth Factor- β Family, Is a Potent Activator of Granulosa Cells and Improves Oocyte Quality. <i>Journal of Biological Chemistry</i> , 2015 , 290, 24007-20	5.4	84
101	Influence of oocyte-secreted factors and culture duration on the metabolic activity of bovine cumulus cell complexes. <i>Reproduction</i> , 2003 , 126, 27-34	3.8	83
100	The safety and efficacy of controlled ovarian hyperstimulation for fertility preservation in women with early breast cancer: a systematic review. <i>Human Reproduction</i> , 2017 , 32, 1033-1045	5.7	79
99	NAD Repletion Rescues Female Fertility during Reproductive Aging. <i>Cell Reports</i> , 2020 , 30, 1670-1681.e710.6	7.0	74
98	Regulation of gap junctions in porcine cumulus-oocyte complexes: contributions of granulosa cell contact, gonadotropins, and lipid rafts. <i>Molecular Endocrinology</i> , 2009 , 23, 700-10		74
97	Immunoneutralization of growth differentiation factor 9 reveals it partially accounts for mouse oocyte mitogenic activity. <i>Biology of Reproduction</i> , 2004 , 71, 732-9	3.9	71
96	Growth differentiation factor 9 is a germ cell regulator of Sertoli cell function. <i>Endocrinology</i> , 2009 , 150, 2481-90	4.8	68
95	Characterization of novel phosphodiesterases in the bovine ovarian follicle. <i>Biology of Reproduction</i> , 2009 , 81, 415-25	3.9	67
94	Mouse oocyte mitogenic activity is developmentally coordinated throughout folliculogenesis and meiotic maturation. <i>Developmental Biology</i> , 2001 , 240, 289-98	3.1	65

93	Signalling pathways mediating specific synergistic interactions between GDF9 and BMP15. <i>Molecular Human Reproduction</i> , 2012 , 18, 121-8	4.4	62
92	Interactions between androgen and growth factors in granulosa cell subtypes of porcine antral follicles. <i>Biology of Reproduction</i> , 2004 , 71, 45-52	3.9	61
91	Heparin and cAMP modulators interact during pre-in vitro maturation to affect mouse and human oocyte meiosis and developmental competence. <i>Human Reproduction</i> , 2013 , 28, 1536-45	5.7	58
90	Maturation, fertilization, and development of marmoset monkey oocytes in vitro. <i>Biology of Reproduction</i> , 1997 , 56, 238-46	3.9	58
89	Increased gonadotrophin stimulation does not improve IVF outcomes in patients with predicted poor ovarian reserve. <i>Journal of Assisted Reproduction and Genetics</i> , 2008 , 25, 515-21	3.4	57
88	Regulation of sheep oocyte maturation using cAMP modulators. <i>Theriogenology</i> , 2013 , 79, 142-8	2.8	55
87	Growth differentiation factor 9 signaling requires ERK1/2 activity in mouse granulosa and cumulus cells. <i>Journal of Cell Science</i> , 2010 , 123, 3166-76	5.3	55
86	Extending prematuration with cAMP modulators enhances the cumulus contribution to oocyte antioxidant defence and oocyte quality via gap junctions. <i>Human Reproduction</i> , 2016 , 31, 810-21	5.7	54
85	Bone morphogenetic protein 15 and fibroblast growth factor 10 enhance cumulus expansion, glucose uptake, and expression of genes in the ovulatory cascade during in vitro maturation of bovine cumulus-oocyte complexes. <i>Reproduction</i> , 2013 , 146, 27-35	3.8	53
84	Prematuration with cyclic adenosine monophosphate modulators alters cumulus cell and oocyte metabolism and enhances developmental competence of in vitro-matured mouse oocytes. <i>Biology of Reproduction</i> , 2014 , 91, 47	3.9	52
83	Adenosine 5Rmonophosphate kinase-activated protein kinase (PRKA) activators delay meiotic resumption in porcine oocytes. <i>Biology of Reproduction</i> , 2007 , 76, 589-97	3.9	52
82	The definition of IVM is clear-variations need defining. <i>Human Reproduction</i> , 2016 , 31, 2411-2415	5.7	51
81	New Perspectives on the Pathogenesis of PCOS: Neuroendocrine Origins. <i>Trends in Endocrinology and Metabolism</i> , 2018 , 29, 841-852	8.8	51
80	Amphiregulin co-operates with bone morphogenetic protein 15 to increase bovine oocyte developmental competence: effects on gap junction-mediated metabolite supply. <i>Molecular Human Reproduction</i> , 2014 , 20, 499-513	4.4	48
79	Pre-maturation with cAMP modulators in conjunction with EGF-like peptides during in vitro maturation enhances mouse oocyte developmental competence. <i>Molecular Reproduction and Development</i> , 2014 , 81, 422-35	2.6	48
78	Comparison of oocyte factors and transforming growth factor-beta in the regulation of DNA synthesis in bovine granulosa cells. <i>Molecular and Cellular Endocrinology</i> , 2003 , 201, 87-95	4.4	47
77	Adenoviral gene transfer allows Smad-responsive gene promoter analyses and delineation of type I receptor usage of transforming growth factor-beta family ligands in cultured human granulosa luteal cells. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005 , 90, 271-8	5.6	47
76	Heparan sulfate proteoglycans regulate responses to oocyte paracrine signals in ovarian follicle morphogenesis. <i>Endocrinology</i> , 2012 , 153, 4544-55	4.8	44

75	Changes in follicle-stimulating hormone and follicle populations during the ovarian cycle of the common marmoset. <i>Biology of Reproduction</i> , 2001 , 64, 127-35	3.9	44
74	Disruption of bidirectional oocyte-cumulus paracrine signaling during in vitro maturation reduces subsequent mouse oocyte developmental competence. <i>Biology of Reproduction</i> , 2009 , 80, 1072-80	3.9	42
73	Mode of oocyte maturation affects EGF-like peptide function and oocyte competence. <i>Molecular Human Reproduction</i> , 2013 , 19, 500-9	4.4	41
72	Promotion of EGF receptor signaling improves the quality of low developmental competence oocytes. <i>Developmental Biology</i> , 2015 , 403, 139-49	3.1	41
71	Glucosamine supplementation during in vitro maturation inhibits subsequent embryo development: possible role of the hexosamine pathway as a regulator of developmental competence. <i>Biology of Reproduction</i> , 2006 , 74, 881-8	3.9	41
70	Temporal effects of exogenous oocyte-secreted factors on bovine oocyte developmental competence during IVM. <i>Reproduction, Fertility and Development</i> , 2011 , 23, 576-84	1.8	39
69	Effect of hexoses and gonadotrophin supplementation on bovine oocyte nuclear maturation during in vitro maturation in a synthetic follicle fluid medium. <i>Reproduction, Fertility and Development</i> , 2005 , 17, 407-15	1.8	39
68	Oocyte induction of EGF responsiveness in somatic cells is associated with the acquisition of porcine oocyte developmental competence. <i>Endocrinology</i> , 2015 , 156, 2299-312	4.8	35
67	Biphasic in vitro maturation (CAPA-IVM) specifically improves the developmental capacity of oocytes from small antral follicles. <i>Journal of Assisted Reproduction and Genetics</i> , 2019 , 36, 2135-2144	3.4	35
66	Redox and anti-oxidant state within cattle oocytes following in vitro maturation with bone morphogenetic protein 15 and follicle stimulating hormone. <i>Molecular Reproduction and Development</i> , 2015 , 82, 281-94	2.6	33
65	Activation of latent human GDF9 by a single residue change (Gly 391 Arg) in the mature domain. <i>Endocrinology</i> , 2012 , 153, 1301-10	4.8	33
64	Chromosome constitution of human embryos generated after in vitro maturation including 3-isobutyl-1-methylxanthine in the oocyte collection medium. <i>Human Reproduction</i> , 2015 , 30, 653-63	5.7	30
63	Metabolic co-dependence of the oocyte and cumulus cells: essential role in determining oocyte developmental competence. <i>Human Reproduction Update</i> , 2021 , 27, 27-47	15.8	30
62	Quantifying the cellular NAD ⁺ metabolome using a tandem liquid chromatography mass spectrometry approach. <i>Metabolomics</i> , 2017 , 14, 15	4.7	29
61	Failure to launch: aberrant cumulus gene expression during oocyte in vitro maturation. <i>Reproduction</i> , 2017 , 153, R109-R120	3.8	29
60	Differences in the participation of TGF β superfamily signalling pathways mediating porcine and murine cumulus cell expansion. <i>Reproduction</i> , 2011 , 142, 647-57	3.8	29
59	Bone morphogenetic protein 15 in the pro-mature complex form enhances bovine oocyte developmental competence. <i>PLoS ONE</i> , 2014 , 9, e103563	3.7	28
58	Effect of epidermal growth factor-like peptides on the metabolism of in vitro- matured mouse oocytes and cumulus cells. <i>Biology of Reproduction</i> , 2014 , 90, 49	3.9	28

57	Metabolic differences in bovine cumulus-oocyte complexes matured in vitro in the presence or absence of follicle-stimulating hormone and bone morphogenetic protein 15. <i>Biology of Reproduction</i> , 2012 , 87, 87	3.9	28
56	Effects of ovarian stimulation, with and without human chorionic gonadotrophin, on oocyte meiotic and developmental competence in the marmoset monkey (<i>Callithrix jacchus</i>). <i>Theriogenology</i> , 2007 , 68, 861-72	2.8	28
55	Fibroblast growth factor 17 and bone morphogenetic protein 15 enhance cumulus expansion and improve quality of in vitro-produced embryos in cattle. <i>Theriogenology</i> , 2015 , 84, 390-8	2.8	27
54	Live births after oocyte in vitro maturation with a prematuration step in women with polycystic ovary syndrome. <i>Journal of Assisted Reproduction and Genetics</i> , 2020 , 37, 347-357	3.4	26
53	Metabolism of the bovine cumulus-oocyte complex and influence on subsequent developmental competence. <i>Reproduction in Domestic Ruminants</i> , 2007 , 64, 179-90		24
52	Reevaluation and evolution of the simulated physiological oocyte maturation system. <i>Theriogenology</i> , 2015 , 84, 656-7	2.8	23
51	In-vitro regulation of primordial follicle activation: challenges for fertility preservation strategies. <i>Reproductive BioMedicine Online</i> , 2018 , 36, 491-499	4	22
50	Effect of pre-in vitro maturation with cAMP modulators on the acquisition of oocyte developmental competence in cattle. <i>Journal of Reproduction and Development</i> , 2018 , 64, 233-241	2.1	22
49	Aberrant GDF9 expression and activation are associated with common human ovarian disorders. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014 , 99, E615-24	5.6	21
48	Hemoglobin: a gas transport molecule that is hormonally regulated in the ovarian follicle in mice and humans. <i>Biology of Reproduction</i> , 2015 , 92, 26	3.9	20
47	BMP15 Mutations Associated With Primary Ovarian Insufficiency Reduce Expression, Activity, or Synergy With GDF9. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017 , 102, 1009-1019	5.6	20
46	Oocyte expression, secretion and somatic cell interaction of mouse bone morphogenetic protein 15 during the peri-ovulatory period. <i>Reproduction, Fertility and Development</i> , 2015 , 27, 801-11	1.8	19
45	Signalling pathways involved in the synergistic effects of human growth differentiation factor 9 and bone morphogenetic protein 15. <i>Reproduction, Fertility and Development</i> , 2016 , 28, 491-8	1.8	19
44	Hyperglycaemic conditions perturb mouse oocyte in vitro developmental competence via beta-O-linked glycosylation of heat shock protein 90. <i>Human Reproduction</i> , 2014 , 29, 1292-303	5.7	18
43	Niclosamide reduces glucagon sensitivity via hepatic PKA inhibition in obese mice: Implications for glucose metabolism improvements in type 2 diabetes. <i>Scientific Reports</i> , 2017 , 7, 40159	4.9	17
42	Improving fertility preservation for girls and women by coupling oocyte in vitro maturation with existing strategies. <i>Women's Health</i> , 2016 , 12, 275-8	3	17
41	Growth differentiation factor 9:bone morphogenetic protein 15 (GDF9:BMP15) synergism and protein heterodimerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2257	11.5	17
40	Defining the impact of dietary macronutrient balance on PCOS traits. <i>Nature Communications</i> , 2020 , 11, 5262	17.4	16

39	In-vitro maturation of oocytes versus conventional IVF in women with infertility and a high antral follicle count: a randomized non-inferiority controlled trial. <i>Human Reproduction</i> , 2020 , 35, 2537-2547	5.7	16
38	Androgen Action in Adipose Tissue and the Brain are Key Mediators in the Development of PCOS Traits in a Mouse Model. <i>Endocrinology</i> , 2020 , 161,	4.8	15
37	A Hyperandrogenic Environment Causes Intrinsic Defects That Are Detrimental to Follicular Dynamics in a PCOS Mouse Model. <i>Endocrinology</i> , 2019 , 160, 699-715	4.8	14
36	Activation of 5Adenosine monophosphate-activated protein kinase blocks cumulus cell expansion through inhibition of protein synthesis during in vitro maturation in Swine. <i>Biology of Reproduction</i> , 2014 , 91, 51	3.9	14
35	Extra-ovarian expression and activity of growth differentiation factor 9. <i>Journal of Endocrinology</i> , 2009 , 202, 419-30	4.7	14
34	Androgen signaling pathways driving reproductive and metabolic phenotypes in a PCOS mouse model. <i>Journal of Endocrinology</i> , 2020 , 245, 381-395	4.7	14
33	Transcriptomic signature of the follicular somatic compartment surrounding an oocyte with high developmental competence. <i>Scientific Reports</i> , 2017 , 7, 6815	4.9	13
32	Capacitation IVM improves cumulus function and oocyte quality in minimally stimulated mice. <i>Journal of Assisted Reproduction and Genetics</i> , 2020 , 37, 77-88	3.4	13
31	Perspectives on the development and future of oocyte IVM in clinical practice. <i>Journal of Assisted Reproduction and Genetics</i> , 2021 , 38, 1265-1280	3.4	13
30	Random start or emergency IVF/in vitro maturation: a new rapid approach to fertility preservation. <i>Women's Health</i> , 2016 , 12, 339-49	3	12
29	Modifications of human growth differentiation factor 9 to improve the generation of embryos from low competence oocytes. <i>Molecular Endocrinology</i> , 2015 , 29, 40-52		11
28	MHC Class II DRB genotyping is highly predictive of in-vitro alloreactivity in the common marmoset. <i>Journal of Immunological Methods</i> , 2006 , 314, 153-63	2.5	11
27	Cross-reactivity of anti-human chemokine receptor and anti-TNF family antibodies with common marmoset (<i>Callithrix jacchus</i>) leukocytes. <i>Cellular Immunology</i> , 2005 , 236, 115-22	4.4	11
26	Effectiveness and safety of in vitro maturation of oocytes versus in vitro fertilisation in women with high antral follicle count: study protocol for a randomised controlled trial. <i>BMJ Open</i> , 2018 , 8, e023413	3	11
25	Cumulin and FSH Cooperate to Regulate Inhibin B and Activin B Production by Human Granulosa-Lutein Cells In Vitro. <i>Endocrinology</i> , 2019 , 160, 853-862	4.8	10
24	The Place of In Vitro Maturation in Assisted Reproductive Technology. <i>Fertility & Reproduction</i> , 2019 , 01, 11-15	0.7	10
23	The effect of peri-conception hyperglycaemia and the involvement of the hexosamine biosynthesis pathway in mediating oocyte and embryo developmental competence. <i>Molecular Reproduction and Development</i> , 2014 , 81, 391-408	2.6	10
22	Current status and future trends of the clinical practice of human oocyte in vitro maturation	186-198	9

21	Are human oocytes from stem cells next?. <i>Nature Biotechnology</i> , 2016 , 34, 1247-1248	44.5	9
20	Participation of the adenosine salvage pathway and cyclic AMP modulation in oocyte energy metabolism. <i>Scientific Reports</i> , 2019 , 9, 18395	4.9	9
19	Serum Concentrations of Oocyte-Secreted Factors BMP15 and GDF9 During IVF and in Women With Reproductive Pathologies. <i>Endocrinology</i> , 2019 , 160, 2298-2313	4.8	8
18	A sensitive method for the separation and quantification of low-level adenine nucleotides using porous graphitic carbon-based liquid chromatography and tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1061-1062, 445-451	3.2	7
17	IVM media are designed specifically to support immature cumulus-oocyte complexes not denuded oocytes that have failed to respond to hyperstimulation. <i>Fertility and Sterility</i> , 2011 , 96, e141; author reply e142	4.8	7
16	Non-canonical cyclic AMP SMAD1/5/8 signalling in human granulosa cells. <i>Molecular and Cellular Endocrinology</i> , 2019 , 490, 37-46	4.4	6
15	A variant of human growth differentiation factor-9 that improves oocyte developmental competence. <i>Journal of Biological Chemistry</i> , 2020 , 295, 7981-7991	5.4	6
14	Somatic guidance for the oocyte. <i>Developmental Cell</i> , 2013 , 27, 603-5	10.2	5
13	Follicle Selection in Mammalian Ovaries 2019 , 3-21		5
12	Pioneering contributions by Robert Edwards to oocyte in vitro maturation (IVM). <i>Molecular Human Reproduction</i> , 2013 , 19, 794-8	4.4	4
11	Neurokinin 3 Receptor Antagonism Ameliorates Key Metabolic Features in a Hyperandrogenic PCOS Mouse Model. <i>Endocrinology</i> , 2021 , 162,	4.8	4
10	Improving oocyte maturation in vitro 212-223		3
9	Prospects of Rescuing Young Eggs for Oncofertility. <i>Trends in Endocrinology and Metabolism</i> , 2020 , 31, 708-711	8.8	3
8	Follicular guidance for oocyte developmental competence. <i>Animal Reproduction</i> , 2018 , 15, 721-726	1.7	2
7	In vitro maturation (IVM) versus in vitro fertilization (IVF) in women with high antral follicle count (AFC): a randomized controlled trial (NCT03405701). <i>Fertility and Sterility</i> , 2019 , 112, e435-e436	4.8	1
6	Pathogenesis of Reproductive and Metabolic PCOS Traits in a Mouse Model. <i>Journal of the Endocrine Society</i> , 2021 , 5, bvab060	0.4	1
5	Exploratory analysis of serum concentrations of oocyte biomarkers growth differentiation factor 9 and bone morphogenetic protein 15 in ovulatory women across the menstrual cycle. <i>Fertility and Sterility</i> , 2021 , 116, 546-557	4.8	1
4	Approaches to oocyte meiotic arrest in vitro and impact on oocyte developmental competence. <i>Biology of Reproduction</i> , 2021 ,	3.9	1

- 3 Effect of cumulin and super-GDF9 in standard and biphasic mouse IVM.. *Journal of Assisted Reproduction and Genetics*, **2022**, 39, 127 3.4 ○
- 2 Multispectral autofluorescence characteristics of reproductive aging in old and young mouse oocytes.. *Biogerontology*, **2022**, 1 4.5 ○
- 1 Oocyte-Secreted Factors in Domestic Animals **2013**, 55-70