

# Martin Gauster

## List of Publications by Year in descending order

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80  
papers

2,845  
citations

172207

29  
h-index

189595

50  
g-index

90  
all docs

90  
docs citations

90  
times ranked

3721  
citing authors

#	ARTICLE	IF	CITATIONS
1	The choriocarcinoma cell line BeWo: syncytial fusion and expression of syncytium-specific proteins. <i>Reproduction</i> , 2010, 140, 759-766.	1.1	148
2	The Placenta and Gestational Diabetes Mellitus. <i>Current Diabetes Reports</i> , 2012, 12, 16-23.	1.7	135
3	Protein Carbamylation Renders High-Density Lipoprotein Dysfunctional. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 2337-2346.	2.5	126
4	Endoglandular trophoblast, an alternative route of trophoblast invasion? Analysis with novel confrontation co-culture models. <i>Human Reproduction</i> , 2010, 25, 1127-1136.	0.4	111
5	Endothelial lipase releases saturated and unsaturated fatty acids of high density lipoprotein phosphatidylcholine. <i>Journal of Lipid Research</i> , 2005, 46, 1517-1525.	2.0	108
6	Factors Involved in Regulating Trophoblast Fusion: Potential Role in the Development of Preeclampsia. <i>Placenta</i> , 2009, 30, 49-54.	0.7	106
7	Dysregulation of Placental Endothelial Lipase and Lipoprotein Lipase in Intrauterine Growth-Restricted Pregnancies. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 2256-2263.	1.8	99
8	Placental transport in pregnancy pathologies. <i>American Journal of Clinical Nutrition</i> , 2011, 94, S1896-S1902.	2.2	95
9	Extravillous trophoblasts invade more than uterine arteries: evidence for the invasion of uterine veins. <i>Histochemistry and Cell Biology</i> , 2017, 147, 353-366.	0.8	89
10	Dysregulation of Placental Endothelial Lipase in Obese Women With Gestational Diabetes Mellitus. <i>Diabetes</i> , 2011, 60, 2457-2464.	0.3	88
11	Oxygen as modulator of trophoblast invasion. <i>Journal of Anatomy</i> , 2009, 215, 14-20.	0.9	84
12	The first trimester human trophoblast cell line ACH-3P: A novel tool to study autocrine/paracrine regulatory loops of human trophoblast subpopulations – TNF- $\alpha$ stimulates MMP15 expression. <i>BMC Developmental Biology</i> , 2007, 7, 137.	2.1	79
13	Evidence from the very beginning: endoglandular trophoblasts penetrate and replace uterine glands in situ and in vitro. <i>Human Reproduction</i> , 2015, 30, 2747-2757.	0.4	78
14	Trophoblast Fusion. <i>Advances in Experimental Medicine and Biology</i> , 2011, 713, 81-95.	0.8	75
15	CD74-Downregulation of Placental Macrophage-Trophoblastic Interactions in Preeclampsia. <i>Circulation Research</i> , 2016, 119, 55-68.	2.0	73
16	The paradox of caspase 8 in human villous trophoblast fusion. <i>Placenta</i> , 2010, 31, 82-88.	0.7	61
17	Vascular Endothelial Expression of Indoleamine 2,3-Dioxygenase 1 Forms a Positive Gradient towards the Feto-Maternal Interface. <i>PLoS ONE</i> , 2011, 6, e21774.	1.1	60
18	TNF- $\alpha$ alters the inflammatory secretion profile of human first trimester placenta. <i>Laboratory Investigation</i> , 2016, 96, 428-438.	1.7	60

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19	Cytochrome P450 Subfamily 2J Polypeptide 2 Expression and Circulating Epoxyeicosatrienoic Metabolites in Preeclampsia. <i>Circulation</i> , 2012, 126, 2990-2999.	1.6	57
20	Caspases rather than calpains mediate remodelling of the fodrin skeleton during human placental trophoblast fusion. <i>Cell Death and Differentiation</i> , 2010, 17, 336-345.	5.0	46
21	The urea decomposition product cyanate promotes endothelial dysfunction. <i>Kidney International</i> , 2014, 86, 923-931.	2.6	46
22	Insulin Action on the Human Placental Endothelium in Normal and Diabetic Pregnancy. <i>Current Vascular Pharmacology</i> , 2009, 7, 460-466.	0.8	41
23	Diabesity-associated oxidative and inflammatory stress signalling in the early human placenta. <i>Molecular Aspects of Medicine</i> , 2019, 66, 21-30.	2.7	36
24	The art of identification of extravillous trophoblast. <i>Placenta</i> , 2011, 32, 197-199.	0.7	35
25	Placental Fractalkine Is Up-Regulated in Severe Early-Onset Preeclampsia. <i>American Journal of Pathology</i> , 2015, 185, 1334-1343.	1.9	35
26	IGF2 stimulates fetal growth in a sex- and organ-dependent manner. <i>Pediatric Research</i> , 2018, 83, 183-189.	1.1	35
27	Fusion of Villous Trophoblast can be Visualized by Localizing Active Caspase 8. <i>Placenta</i> , 2009, 30, 547-550.	0.7	33
28	Endothelial lipase-modified high-density lipoprotein exhibits diminished ability to mediate SR-BI (scavenger receptor B type I)-dependent free-cholesterol efflux. <i>Biochemical Journal</i> , 2004, 382, 75-82.	1.7	32
29	Endothelial lipase is inactivated upon cleavage by the members of the proprotein convertase family. <i>Journal of Lipid Research</i> , 2005, 46, 977-987.	2.0	32
30	Endothelial indoleamine 2,3-dioxygenase-1 regulates the placental vascular tone and is deficient in intrauterine growth restriction and pre-eclampsia. <i>Scientific Reports</i> , 2018, 8, 5488.	1.6	31
31	Cyanate Is a Novel Inducer of Endothelial ICAM-1 Expression. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 129-137.	2.5	30
32	Post-transcriptional down regulation of ICAM-1 in feto-placental endothelium in GDM. <i>Cell Adhesion and Migration</i> , 2016, 10, 18-27.	1.1	29
33	Effects of vitamins C and E, acetylsalicylic acid and heparin on fusion, beta-hCG and PP13 expression in BeWo cells. <i>Placenta</i> , 2010, 31, 431-438.	0.7	28
34	Maternal Platelets of the Human Placenta: Friend or Foe?. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5639.	1.8	28
35	Placental Endocrine Activity: Adaptation and Disruption of Maternal Glucose Metabolism in Pregnancy and the Influence of Fetal Sex. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12722.	1.8	28
36	Early human trophoblast development: from morphology to function. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	28

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37	A Variety of Opportunities for Immune Interactions During Trophoblast Development and Invasion. <i>American Journal of Reproductive Immunology</i> , 2012, 67, 349-357.	1.2	27
38	Maternal Type 1 diabetes activates stress response in early placenta. <i>Placenta</i> , 2017, 50, 110-116.	0.7	27
39	A role for GPR55 in human placental venous endothelial cells. <i>Histochemistry and Cell Biology</i> , 2015, 144, 49-58.	0.8	25
40	Nanomaterial interference with early human placenta: Sophisticated matter meets sophisticated tissues. <i>Reproductive Toxicology</i> , 2013, 41, 73-79.	1.3	24
41	Diabetes-associated changes in the fetal insulin/insulin-like growth factor system are organ specific in rats. <i>Pediatric Research</i> , 2015, 77, 48-55.	1.1	24
42	Dendritic polyglycerol nanoparticles show charge dependent bio-distribution in early human placental explants and reduce hCG secretion. <i>Nanotoxicology</i> , 2018, 12, 90-103.	1.6	24
43	Downregulation of p53 drives autophagy during human trophoblast differentiation. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 1839-1855.	2.4	24
44	Membrane-Type Matrix Metalloproteinase 1 Regulates Trophoblast Functions and Is Reduced in Fetal Growth Restriction. <i>American Journal of Pathology</i> , 2013, 182, 1563-1571.	1.9	23
45	Placental fractalkine mediates adhesion of THP-1 monocytes to villous trophoblast. <i>Histochemistry and Cell Biology</i> , 2015, 143, 565-574.	0.8	21
46	Adenovirus-mediated apo(a)-antisense-RNA expression efficiently inhibits apo(a) synthesis in vitro and in vivo. <i>Gene Therapy</i> , 2001, 8, 425-430.	2.3	20
47	Placental DAPK1 and autophagy marker LC3B-II are dysregulated by TNF- $\alpha$ in a gestational age-dependent manner. <i>Histochemistry and Cell Biology</i> , 2017, 147, 695-705.	0.8	20
48	The role of CX3CL1 in fetal-maternal interaction during human gestation. <i>Cell Adhesion and Migration</i> , 2016, 10, 189-196.	1.1	19
49	Placental CX3CL1 is Deregulated by Angiotensin II and Contributes to a Pro-Inflammatory Trophoblast-Monocyte Interaction. <i>International Journal of Molecular Sciences</i> , 2019, 20, 641.	1.8	19
50	Maternal Angiotensin Increases Placental Leptin in Early Gestation via an Alternative Renin-Angiotensin System Pathway. <i>Hypertension</i> , 2021, 77, 1723-1736.	1.3	19
51	Adhering maternal platelets can contribute to the cytokine and chemokine cocktail released by human first trimester villous placenta. <i>Placenta</i> , 2015, 36, 1333-1336.	0.7	17
52	Platelet-derived factors impair placental chorionic gonadotropin beta-subunit synthesis. <i>Journal of Molecular Medicine</i> , 2020, 98, 193-207.	1.7	17
53	Go with the Flow—Trophoblasts in Flow Culture. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4666.	1.8	17
54	Keratins in the human trophoblast. <i>Histology and Histopathology</i> , 2013, 28, 817-25.	0.5	14

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55	Application of cryo-compatible antibodies to human placenta paraffin sections. <i>Histochemistry and Cell Biology</i> , 2008, 130, 595-599.	0.8	13
56	Changes in Maternal Platelet Physiology during Gestation and Their Interaction with Trophoblasts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10732.	1.8	13
57	Fibulin-5 expression in the human placenta. <i>Histochemistry and Cell Biology</i> , 2011, 135, 203-213.	0.8	12
58	Maternal Obesity Alters Placental Cell Cycle Regulators in the First Trimester of Human Pregnancy: New Insights for BRCA1. <i>International Journal of Molecular Sciences</i> , 2020, 21, 468.	1.8	12
59	(Dis)similarities between the Decidual and Tumor Microenvironment. <i>Biomedicines</i> , 2022, 10, 1065.	1.4	11
60	A Chinese Hamster Ovarian Cell Line Imports Cholesterol by High Density Lipoprotein Degradation. <i>Journal of Biological Chemistry</i> , 2006, 281, 38159-38171.	1.6	10
61	Metalloprotease Dependent Release of Placenta Derived Fractalkine. <i>Mediators of Inflammation</i> , 2014, 2014, 1-12.	1.4	9
62	Defective Lysosomal Lipolysis Causes Prenatal Lipid Accumulation and Exacerbates Immediately after Birth. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10416.	1.8	9
63	Type 1 Diabetes Mellitus and the First Trimester Placenta: Hyperglycemia-Induced Effects on Trophoblast Proliferation, Cell Cycle Regulators, and Invasion. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10989.	1.8	9
64	Monoclonal antibody HC10 does not bind HLA-G. <i>Rheumatology</i> , 2007, 46, 892-893.	0.9	8
65	Phospholipid scramblase 1 (PLSCR1) in villous trophoblast of the human placenta. <i>Histochemistry and Cell Biology</i> , 2015, 143, 381-396.	0.8	7
66	Maternal platelets pass interstices of trophoblast columns and are not activated by HLA-G in early human pregnancy. <i>Journal of Reproductive Immunology</i> , 2021, 144, 103280.	0.8	7
67	Simple method of thawing cryo-stored samples preserves ultrastructural features in electron microscopy. <i>Histochemistry and Cell Biology</i> , 2021, 155, 593-603.	0.8	7
68	Maternal platelets at the first trimester maternal-placental interface “ Small players with great impact on placenta development. <i>Placenta</i> , 2022, 125, 61-67.	0.7	7
69	Mechanisms Regulating Human Trophoblast Fusion. , 2011, , 203-217.		6
70	Increased expression of endothelial lipase in symptomatic and unstable carotid plaques. <i>Journal of Neurology</i> , 2012, 259, 448-456.	1.8	4
71	Letter from the guest editors: Cell adhesion, migration, and fusion in placenta. <i>Cell Adhesion and Migration</i> , 2016, 10, 1-1.	1.1	4
72	Kidney Injury Caused by Preeclamptic Pregnancy Recovers Postpartum in a Transgenic Rat Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3762.	1.8	3

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73	Flow-through isolation of human first trimester umbilical cord endothelial cells. <i>Histochemistry and Cell Biology</i> , 2021, 156, 363-375.	0.8	3
74	Automated Quantitative Image Evaluation of Antigen Retrieval Methods for 17 Antibodies in Placentation and Implantation Diagnostic and Research. <i>Microscopy and Microanalysis</i> , 2021, 27, 1506-1517.	0.2	3
75	The effect of carbamylation on the functionality of high-density lipoprotein. <i>BMC Pharmacology</i> , 2009, 9, .	0.4	0
76	Metalloproteinase dependent secretion of placental fractalkine. <i>Placenta</i> , 2013, 34, A19.	0.7	0
77	Tryptophan dilates precontracted chorionic arteries and endothelial indoleamine 2,3-dioxygenase-1 is deficient in intrauterine growth restriction and preeclampsia. <i>Placenta</i> , 2015, 36, A46.	0.7	0
78	A novel tryptophan-based mechanism regulating the tonus of the placental vascular bed is impaired in intrauterine growth restriction and preeclampsia. <i>Placenta</i> , 2016, 45, 103.	0.7	0
79	Downregulation of p53 drives autophagy during human trophoblast differentiation. <i>Placenta</i> , 2017, 57, 295.	0.7	0
80	Forschungsaspekte und In-vitro-Modelle. , 2018, , 341-357.		0