

Berthold Huppertz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9486095/publications.pdf>

Version: 2024-02-01

229
papers

14,411
citations

19636

61
h-index

24232

110
g-index

248
all docs

248
docs citations

248
times ranked

11825
citing authors

#	ARTICLE	IF	CITATIONS
1	Endovascular Trophoblast Invasion: Implications for the Pathogenesis of Intrauterine Growth Retardation and Preeclampsia. <i>Biology of Reproduction</i> , 2003, 69, 1-7.	1.2	1,028
2	Placental Origins of Preeclampsia. <i>Hypertension</i> , 2008, 51, 970-975.	1.3	796
3	Development of the placental villous tree and its consequences for fetal growth. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2000, 92, 35-43.	0.5	488
4	Villous cytotrophoblast regulation of the syncytial apoptotic cascade in the human placenta. <i>Histochemistry and Cell Biology</i> , 1998, 110, 495.	0.8	356
5	Apoptosis and its role in the trophoblast. <i>American Journal of Obstetrics and Gynecology</i> , 2006, 195, 29-39.	0.7	289
6	Macrophage-Induced Apoptosis Limits Endovascular Trophoblast Invasion in the Uterine Wall of Preeclamptic Women. <i>Laboratory Investigation</i> , 2001, 81, 1143-1152.	1.7	276
7	Hypoxia Favours Necrotic Versus Apoptotic Shedding of Placental Syncytiotrophoblast into the Maternal Circulation. <i>Placenta</i> , 2003, 24, 181-190.	0.7	266
8	The apoptosis cascade – morphological and immunohistochemical methods for its visualization. <i>Anatomy and Embryology</i> , 1999, 200, 1-18.	1.5	265
9	Apoptosis in the Trophoblast – Role of Apoptosis in Placental Morphogenesis. <i>Journal of the Society for Gynecologic Investigation</i> , 2004, 11, 353-362.	1.9	229
10	Immunohistochemistry of matrix metalloproteinases (MMP), their substrates, and their inhibitors (TIMP) during trophoblast invasion in the human placenta. <i>Cell and Tissue Research</i> , 1997, 291, 133-148.	1.5	224
11	Developmental biology of the placenta and the origins of placental insufficiency. <i>Seminars in Fetal and Neonatal Medicine</i> , 2004, 9, 357-369.	1.1	219
12	The anatomy of the normal placenta. <i>Journal of Clinical Pathology</i> , 2008, 61, 1296-1302.	1.0	215
13	Human placental explants in culture: Approaches and assessments. <i>Placenta</i> , 2005, 26, 439-448.	0.7	208
14	Vasculogenesis and angiogenesis in the early human placenta. <i>Acta Histochemica</i> , 2007, 109, 257-265.	0.9	193
15	DNA methylation heterogeneity defines a disease spectrum in Ewing sarcoma. <i>Nature Medicine</i> , 2017, 23, 386-395.	15.2	193
16	Sequential Expression of VEGF and its Receptors in Human Placental Villi During Very Early Pregnancy: Differences Between Placental Vasculogenesis and Angiogenesis. <i>Placenta</i> , 2004, 25, 560-572.	0.7	177
17	Heparin and aspirin attenuate placental apoptosis in vitro: Implications for early pregnancy failure. <i>American Journal of Obstetrics and Gynecology</i> , 2005, 192, 23-30.	0.7	160
18	Syncytial fusion of human trophoblast depends on caspase 8. <i>Cell Death and Differentiation</i> , 2004, 11, 90-98.	5.0	158

#	ARTICLE	IF	CITATIONS
19	Divergent trophoblast invasion and apoptosis in placental bed spiral arteries from pregnancies complicated by maternal anemia and early-onset preeclampsia/intrauterine growth restriction. <i>American Journal of Obstetrics and Gynecology</i> , 2006, 194, 557-563.	0.7	154
20	Vasculogenesis and angiogenesis in the endometrium during menstrual cycle and implantation. <i>Acta Histochemica</i> , 2010, 112, 203-214.	0.9	154
21	The choriocarcinoma cell line BeWo: syncytial fusion and expression of syncytium-specific proteins. <i>Reproduction</i> , 2010, 140, 759-766.	1.1	148
22	Placental and trophoblastic in vitro models to study preventive and therapeutic agents for preeclampsia. <i>Placenta</i> , 2011, 32, S49-S54.	0.7	146
23	Pre-eclampsia and Maternal Anaemia Display Reduced Apoptosis and Opposite Invasive Phenotypes of Extravillous Trophoblast. <i>Placenta</i> , 2003, 24, 540-548.	0.7	145
24	The Distribution of Macrophages in Spiral Arteries of the Placental Bed in Pre-eclampsia Differs from that in Healthy Patients. <i>Placenta</i> , 1999, 20, 229-233.	0.7	144
25	Villous sprouting: fundamental mechanisms of human placental development. <i>Human Reproduction Update</i> , 2000, 6, 485-494.	5.2	143
26	Trophoblast fusion: Fusogenic proteins, syncytins and ADAMs, and other prerequisites for syncytial fusion. <i>Micron</i> , 2006, 37, 509-517.	1.1	134
27	Vascular biology in implantation and placentation. <i>Angiogenesis</i> , 2005, 8, 157-167.	3.7	133
28	Longitudinal Determination of Serum Placental Protein 13 during Development of Preeclampsia. <i>Fetal Diagnosis and Therapy</i> , 2008, 24, 230-236.	0.6	125
29	Human trophoblast invasion: new and unexpected routes and functions. <i>Histochemistry and Cell Biology</i> , 2018, 150, 361-370.	0.8	124
30	Fetal Cells and Cell Free Fetal Nucleic Acids in Maternal Blood: New Tools to Study Abnormal Placentation?. <i>Placenta</i> , 2005, 26, 515-526.	0.7	121
31	A comparative study of five physiological key parameters between four different human trophoblast-derived cell lines. <i>Scientific Reports</i> , 2017, 7, 5892.	1.6	119
32	The fibrinoids of the human placenta: origin, composition and functional relevance. <i>Annals of Anatomy</i> , 1996, 178, 485-501.	1.0	113
33	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
34	Trophoblast invasion and oxygenation of the placenta: measurements versus presumptions. <i>Journal of Reproductive Immunology</i> , 2014, 101-102, 74-79.	0.8	109
35	The Critical Role of Abnormal Trophoblast Development in the Etiology of Preeclampsia. <i>Current Pharmaceutical Biotechnology</i> , 2018, 19, 771-780.	0.9	107
36	Factors Involved in Regulating Trophoblast Fusion: Potential Role in the Development of Preeclampsia. <i>Placenta</i> , 2009, 30, 49-54.	0.7	106

#	ARTICLE	IF	CITATIONS
37	A comparative study of the effect of three different syncytiotrophoblast micro-particles preparations on endothelial cells. <i>Placenta</i> , 2005, 26, 59-66.	0.7	105
38	Sequential Steps During Vasculogenesis and Angiogenesis in the Very Early Human Placenta. <i>Placenta</i> , 2006, 27, 535-539.	0.7	105
39	Bi-potential Behaviour of Cytotrophoblasts in First Trimester Chorionic Villi. <i>Placenta</i> , 2006, 27, 367-374.	0.7	99
40	Complex Patterns of GCM1 mRNA and Protein in Villous and Extravillous Trophoblast Cells of the Human Placenta. <i>Placenta</i> , 2004, 25, 553-559.	0.7	93
41	Detection of Fetal DNA and RNA in Placenta-Derived Syncytiotrophoblast Microparticles Generated in Vitro. <i>Clinical Chemistry</i> , 2004, 50, 2187-2190.	1.5	92
42	Adverse effects of lupus anticoagulant positive blood sera on placental viability can be prevented by heparin in vitro. <i>American Journal of Obstetrics and Gynecology</i> , 2004, 191, 2125-2131.	0.7	89
43	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
44	Expression of a Cytokeratin 18 Neo-epitope is a Specific Marker for Trophoblast Apoptosis in Human Placenta. <i>Placenta</i> , 2001, 22, 44-48.	0.7	88
45	Effects of Oxygen on Cell Turnover and Expression of Regulators of Apoptosis in Human Placental Trophoblasts. <i>Placenta</i> , 2008, 29, 175-186.	0.7	88
46	REVIEW ARTICLE: Governing the Invasive Trophoblast: Current Aspects on Intra- and Extracellular Regulation. <i>American Journal of Reproductive Immunology</i> , 2010, 63, 492-505.	1.2	88
47	Invasive depth of extravillous trophoblast correlates with cellular phenotype: a comparison of intra- and extrauterine implantation sites. <i>Histochemistry and Cell Biology</i> , 2002, 117, 401-414.	0.8	84
48	Oxygen as modulator of trophoblast invasion. <i>Journal of Anatomy</i> , 2009, 215, 14-20.	0.9	84
49	Apoptosis and syncytial fusion in human placental trophoblast and skeletal muscle. <i>International Review of Cytology</i> , 2001, 205, 215-253.	6.2	83
50	The trophoblast plug during early pregnancy: a deeper insight. <i>Histochemistry and Cell Biology</i> , 2016, 146, 749-756.	0.8	82
51	Traditional and New Routes of Trophoblast Invasion and Their Implications for Pregnancy Diseases. <i>International Journal of Molecular Sciences</i> , 2020, 21, 289.	1.8	82
52	The first trimester human trophoblast cell line ACH-3P: A novel tool to study autocrine/paracrine regulatory loops of human trophoblast subpopulations – TNF- α stimulates MMP15 expression. <i>BMC Developmental Biology</i> , 2007, 7, 137.	2.1	79
53	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
54	Trophoblast Fusion. <i>Advances in Experimental Medicine and Biology</i> , 2011, 713, 81-95.	0.8	75

#	ARTICLE	IF	CITATIONS
55	CD74-Downregulation of Placental Macrophage-Trophoblastic Interactions in Preeclampsia. <i>Circulation Research</i> , 2016, 119, 55-68.	2.0	73
56	The Placental Exposome: Placental Determinants of Fetal Adiposity and Postnatal Body Composition. <i>Annals of Nutrition and Metabolism</i> , 2013, 63, 208-215.	1.0	70
57	Hofbauer cells of M2a, M2b and M2c polarization may regulate fetoplacental angiogenesis. <i>Reproduction</i> , 2016, 152, 447-455.	1.1	70
58	Pregenesys pre-eclampsia markers consensus meeting: What do we require from markers, risk assessment and model systems to tailor preventive strategies?. <i>Placenta</i> , 2011, 32, S4-S16.	0.7	69
59	Distribution of decidual natural killer cells and macrophages in the neighbourhood of the trophoblast invasion front: a quantitative evaluation. <i>Human Reproduction</i> , 2014, 29, 8-17.	0.4	68
60	Perinatal Derivatives: Where Do We Stand? A Roadmap of the Human Placenta and Consensus for Tissue and Cell Nomenclature. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 610544.	2.0	68
61	Soluble Factors of Amnion-Derived Cells in Treatment of Inflammatory and Fibrotic Pathologies. <i>Current Stem Cell Research and Therapy</i> , 2013, 8, 6-14.	0.6	67
62	Trophoblast turnover in health and disease. <i>Fetal and Maternal Medicine Review</i> , 2002, 13, .	0.3	65
63	Inhibitory NK Receptor Recognition of HLA-G: Regulation by Contact Residues and by Cell Specific Expression at the Fetal-Maternal Interface. <i>PLoS ONE</i> , 2010, 5, e8941.	1.1	65
64	Effects of Circulating and Local Uteroplacental Angiotensin II in Rat Pregnancy. <i>Hypertension</i> , 2010, 56, 311-318.	1.3	64
65	IFPA Award in Placentology Lecture: Biology of the placental syncytiotrophoblast – Myths and facts. <i>Placenta</i> , 2010, 31, S75-S81.	0.7	63
66	Placental protein 13 (PP13): a new biological target shifting individualized risk assessment to personalized drug design combating pre-eclampsia. <i>Human Reproduction Update</i> , 2013, 19, 391-405.	5.2	63
67	Regulation of proliferation and apoptosis during development of the preimplantation embryo and the placenta. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2005, 75, 249-261.	3.6	61
68	Prediction of Preeclampsia – A Workshop Report. <i>Placenta</i> , 2008, 29, 83-85.	0.7	61
69	The paradox of caspase 8 in human villous trophoblast fusion. <i>Placenta</i> , 2010, 31, 82-88.	0.7	61
70	Aberrations of Early Trophoblast Differentiation Predispose to Pregnancy Failure: Lessons from the Anti-phospholipid Syndrome. <i>Placenta</i> , 2006, 27, 869-875.	0.7	60
71	TNF- α alters the inflammatory secretion profile of human first trimester placenta. <i>Laboratory Investigation</i> , 2016, 96, 428-438.	1.7	60
72	Disturbed Placental Imprinting in Preeclampsia Leads to Altered Expression of DLX5, a Human-Specific Early Trophoblast Marker. <i>Circulation</i> , 2017, 136, 1824-1839.	1.6	58

#	ARTICLE	IF	CITATIONS
73	Cytochrome P450 Subfamily 2J Polypeptide 2 Expression and Circulating Epoxyeicosatrienoic Metabolites in Preeclampsia. <i>Circulation</i> , 2012, 126, 2990-2999.	1.6	57
74	Amnion-Derived Mesenchymal Stromal Cells Show Angiogenic Properties but Resist Differentiation into Mature Endothelial Cells. <i>Stem Cells and Development</i> , 2012, 21, 1309-1320.	1.1	57
75	3-dimensional colour power angiography for staging human placental development. <i>Lancet</i> , The, 2003, 362, 1199-1201.	6.3	55
76	Altered protease expression by periarterial trophoblast cells in severe early-onset preeclampsia with IUGR. <i>Journal of Perinatal Medicine</i> , 2006, 34, 272-9.	0.6	55
77	Are morphological criteria sufficient for the identification of circulating tumor cells in renal cancer?. <i>Journal of Translational Medicine</i> , 2013, 11, 214.	1.8	51
78	Characterization of Fetal Cells from the Maternal Circulation by Microarray Gene Expression Analysis - Could the Extravillous Trophoblasts Be a Target for Future Cell-Based Non-Invasive Prenatal Diagnosis?. <i>Fetal Diagnosis and Therapy</i> , 2014, 35, 218-227.	0.6	51
79	Implantation and extravillous trophoblast invasion: From rare archival specimens to modern biobanking. <i>Placenta</i> , 2017, 56, 19-26.	0.7	51
80	Placental pathology in pregnancy complications. <i>Thrombosis Research</i> , 2011, 127, S96-S99.	0.8	50
81	A possible protective role of Nrf2 in preeclampsia. <i>Annals of Anatomy</i> , 2014, 196, 268-277.	1.0	48
82	The fetal-maternal interface: setting the stage for potential immune interactions. <i>Seminars in Immunopathology</i> , 2007, 29, 83-94.	2.8	47
83	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
84	Placenta Trophoblast Fusion. <i>Methods in Molecular Biology</i> , 2008, 475, 135-147.	0.4	46
85	Cytogenetic and DNA-Fingerprint Characterization of Choriocarcinoma Cell Lines and a Trophoblast /Choriocarcinoma Cell Hybrid. <i>Cancer Genetics and Cytogenetics</i> , 2000, 116, 16-22.	1.0	45
86	An improved and rapid method to construct skin equivalents from human hair follicles and fibroblasts. <i>Experimental Dermatology</i> , 2001, 10, 264-271.	1.4	43
87	Endogenous retroviral syncytin: compilation of experimental research on syncytin and its possible role in normal and disturbed human placentogenesis. <i>Molecular Human Reproduction</i> , 2004, 10, 581-588.	1.3	43
88	New Insights into the Biology of Preeclampsia. <i>Biology of Reproduction</i> , 2006, 74, 772-776.	1.2	43
89	The "Reference Trap" Revisited: Examples of the Dangers in Using Ratios to Describe Fetoplacental Angiogenesis and Trophoblast Turnover. <i>Placenta</i> , 2003, 24, 1-7.	0.7	42
90	Expression of CD24 and Siglec-10 in first trimester placenta: implications for immune tolerance at the fetal-maternal interface. <i>Histochemistry and Cell Biology</i> , 2017, 147, 565-574.	0.8	42

#	ARTICLE	IF	CITATIONS
91	Trophoblast retrieval and isolation from the cervix: origins of cervical trophoblasts and their potential value for risk assessment of ongoing pregnancies. <i>Human Reproduction Update</i> , 2018, 24, 484-496.	5.2	41
92	Placental Mesenchymal Stromal Cells Derived from Blood Vessels or Avascular Tissues: What Is the Better Choice to Support Endothelial Cell Function?. <i>Stem Cells and Development</i> , 2015, 24, 115-131.	1.1	40
93	Matrix metalloproteinases-2, -3 and -9 in human term placenta. <i>Acta Histochemica</i> , 2007, 109, 403-412.	0.9	39
94	The vitamin E-binding protein afamin increases in maternal serum during pregnancy. <i>Clinica Chimica Acta</i> , 2014, 434, 41-47.	0.5	39
95	Trophoblastic invasion in vitro and in vivo: similarities and differences. <i>Human Reproduction</i> , 2008, 23, 2282-2291.	0.4	38
96	Placental markers of folate-related metabolism in preeclampsia. <i>Reproduction</i> , 2011, 142, 467-476.	1.1	38
97	Magnetomitotransfer: An efficient way for direct mitochondria transfer into cultured human cells. <i>Scientific Reports</i> , 2016, 6, 35571.	1.6	38
98	A Role for Nrf2 in Redox Signalling of the Invasive Extravillous Trophoblast in Severe Early Onset IUGR Associated with Preeclampsia. <i>PLoS ONE</i> , 2012, 7, e47055.	1.1	38
99	Galectin 13 (PP13) Facilitates Remodeling and Structural Stabilization of Maternal Vessels during Pregnancy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3192.	1.8	36
100	Role of a fetal defence mechanism against oxidative stress in the aetiology of preeclampsia. <i>Histopathology</i> , 2009, 55, 102-106.	1.6	35
101	The art of identification of extravillous trophoblast. <i>Placenta</i> , 2011, 32, 197-199.	0.7	35
102	Placental Fractalkine Is Up-Regulated in Severe Early-Onset Preeclampsia. <i>American Journal of Pathology</i> , 2015, 185, 1334-1343.	1.9	35
103	Placenta-bound and Body Fluid PP13 and its mRNA in Normal Pregnancy Compared to Preeclampsia, HELLP and Preterm Delivery. <i>Placenta</i> , 2011, 32, S30-S36.	0.7	34
104	HO-1 inhibits preadipocyte proliferation and differentiation at the onset of obesity via ROS dependent activation of Akt2. <i>Scientific Reports</i> , 2017, 7, 40881.	1.6	34
105	A lab-on-a-chip system with an embedded porous membrane-based impedance biosensor array for nanoparticle risk assessment on placental Bewo trophoblast cells. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127946.	4.0	34
106	Fusion of Villous Trophoblast can be Visualized by Localizing Active Caspase 8. <i>Placenta</i> , 2009, 30, 547-550.	0.7	33
107	Oxygen Modulates the Response of First-Trimester Trophoblasts to Hyperglycemia. <i>American Journal of Pathology</i> , 2012, 180, 153-164.	1.9	33
108	Placental expression of sFlt-1 and PlGF in early preeclampsia vs. early IUGR vs. age-matched healthy pregnancies. <i>Hypertension in Pregnancy</i> , 2017, 36, 151-160.	0.5	33

#	ARTICLE	IF	CITATIONS
109	Ultrasound detection of placental insufficiency in women with "unexplained" abnormal maternal serum screening results. <i>Clinical Genetics</i> , 2005, 69, 97-104.	1.0	32
110	Effects of Placental Protein 13 on the Cardiovascular System in Gravid and Non-Gravid Rodents. <i>Fetal Diagnosis and Therapy</i> , 2013, 33, 257-264.	0.6	32
111	An integrative view on the physiology of human early placental villi. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 114, 33-48.	1.4	32
112	GDM alters paracrine regulation of feto-placental angiogenesis via the trophoblast. <i>Laboratory Investigation</i> , 2017, 97, 409-418.	1.7	32
113	Anti-adhesive glycosylation of fibronectin-like molecules in human placental matrix-type fibrinoid. <i>Histochemistry and Cell Biology</i> , 1995, 104, 317-329.	0.8	31
114	Human Trophoblast Contains an Intracellular Protein Reactive with an Antibody against CD133" A Novel Marker for Trophoblast. <i>Placenta</i> , 2001, 22, 639-645.	0.7	31
115	Trophoblast differentiation, fetal growth restriction and preeclampsia. <i>Pregnancy Hypertension</i> , 2011, 1, 79-86.	0.6	31
116	The trophoblast survival capacity in preeclampsia. <i>PLoS ONE</i> , 2017, 12, e0186909.	1.1	31
117	Maternal" fetal interactions, predictive markers for preeclampsia, and programming. <i>Journal of Reproductive Immunology</i> , 2015, 108, 26-32.	0.8	30
118	Trophoblasts Reduce the Vascular Smooth Muscle Cell Proatherogenic Response. <i>Hypertension</i> , 2008, 51, 554-559.	1.3	29
119	Placental Morphology: From Molecule to Mother " A Dedication to Peter Kaufmann " A Review. <i>Placenta</i> , 2006, 27, 3-8.	0.7	28
120	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
121	Mesenchymal stromal cells from the human placenta promote neovascularization in a mouse model in vivo. <i>Placenta</i> , 2014, 35, 517-519.	0.7	28
122	Early human trophoblast development: from morphology to function. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	28
123	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
124	Pigment epithelium-derived factor (PEDF): a novel trophoblast-derived factor limiting feto-placental angiogenesis in late pregnancy. <i>Angiogenesis</i> , 2016, 19, 373-388.	3.7	27
125	Quality Matters: 2016 Annual Conference of the National Infrastructures for Biobanking. <i>Biopreservation and Biobanking</i> , 2017, 15, 270-276.	0.5	26
126	Placental protein 13 (PP13)-induced vasodilation of resistance arteries from pregnant and nonpregnant rats occurs via endothelial-signaling pathways. <i>Hypertension in Pregnancy</i> , 2017, 36, 186-195.	0.5	26

#	ARTICLE	IF	CITATIONS
127	A role for GPR55 in human placental venous endothelial cells. <i>Histochemistry and Cell Biology</i> , 2015, 144, 49-58.	0.8	25
128	Spatial and Temporal Distribution of Tie-1 and Tie-2 During Very Early Development of the Human Placenta. <i>Placenta</i> , 2006, 27, 648-659.	0.7	24
129	Effect of high oxygen on placental function in short-term explant cultures. <i>Cell and Tissue Research</i> , 2007, 328, 607-616.	1.5	24
130	Sustainability in Biobanking: Model of Biobank Graz. <i>Biopreservation and Biobanking</i> , 2015, 13, 410-420.	0.5	24
131	Placental Villous Explant Culture 2.0: Flow Culture Allows Studies Closer to the In Vivo Situation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7464.	1.8	23
132	Molecular characteristics of established trophoblast-derived cell lines. <i>Placenta</i> , 2021, 108, 122-133.	0.7	22
133	Nucleic Acid Sequence of Feline Preprorelaxin and Its Localization within the Feline Placenta ¹ . <i>Biology of Reproduction</i> , 1999, 60, 305-311.	1.2	21
134	Endothelin A and B Receptors Change their Expression Levels During Development of Human Placental Villi. <i>Placenta</i> , 2000, 21, 536-546.	0.7	21
135	Differential expression of VE-cadherin and VEGFR2 in placental syncytiotrophoblast during preeclampsia – New perspectives to explain the pathophysiology. <i>Placenta</i> , 2010, 31, 339-343.	0.7	21
136	Oxidatively modified LDL particles in the human placenta in early and late onset intrauterine growth restriction. <i>Placenta</i> , 2013, 34, 1142-1149.	0.7	21
137	Placental fractalkine mediates adhesion of THP-1 monocytes to villous trophoblast. <i>Histochemistry and Cell Biology</i> , 2015, 143, 565-574.	0.8	21
138	N-cadherin knockdown leads to disruption of trophoblastic and endothelial cell interaction in a 3D cell culture model – New insights in trophoblast invasion failure. <i>Cell Adhesion and Migration</i> , 2018, 12, 259-270.	1.1	21
139	The Human Placenta is Encircled by a Ring of Smooth Muscle Cells. <i>Placenta</i> , 2000, 21, 122-125.	0.7	20
140	Concerted Upregulation of CLP36 and Smooth Muscle Actin Protein Expression in Human Endometrium during Decidualization. <i>Cells Tissues Organs</i> , 2005, 179, 109-114.	1.3	20
141	Human placental transthyretin in fetal growth restriction in combination with preeclampsia and the HELLP syndrome. <i>Histochemistry and Cell Biology</i> , 2012, 138, 925-932.	0.8	20
142	Oxygenation of the placenta and its role in pre-eclampsia. <i>Pregnancy Hypertension</i> , 2014, 4, 244-245.	0.6	20
143	Placental Protein 13 Administration to Pregnant Rats Lowers Blood Pressure and Augments Fetal Growth and Venous Remodeling. <i>Fetal Diagnosis and Therapy</i> , 2016, 39, 56-63.	0.6	20
144	Challenges and Driving Forces for Business Plans in Biobanking. <i>Biopreservation and Biobanking</i> , 2017, 15, 121-125.	0.5	20

#	ARTICLE	IF	CITATIONS
145	Expression of matrix metalloproteinase 12 is highly specific for non-proliferating invasive trophoblasts in the first trimester and temporally regulated by oxygen-dependent mechanisms including HIF-1A. <i>Histochemistry and Cell Biology</i> , 2018, 149, 31-42.	0.8	20
146	Impact of vitamin D and vitamin D receptor on the trophoblast survival capacity in preeclampsia. <i>PLoS ONE</i> , 2018, 13, e0206725.	1.1	20
147	The endogenous exposome of the pregnant mother: Placental extracellular vesicles and their effect on the maternal system. <i>Molecular Aspects of Medicine</i> , 2022, 87, 100955.	2.7	20
148	Circulating Fetal DNA in Maternal Plasma Is Increased in Pregnancies at High Altitude and Is Further Enhanced by Preeclampsia. <i>Clinical Chemistry</i> , 2004, 50, 2403-2405.	1.5	19
149	The Role of the Carbohydrate Recognition Domain of Placental Protein 13 (PP13) in Pregnancy Evaluated with Recombinant PP13 and the DelT221 PP13 Variant. <i>PLoS ONE</i> , 2014, 9, e102832.	1.1	19
150	Biology of preeclampsia: Combined actions of angiogenic factors, their receptors and placental proteins. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165349.	1.8	19
151	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
152	Does 2D-Histologic identification of villous types of human placentas at birth enable sensitive and reliable interpretation of 3D structure?. <i>Placenta</i> , 2015, 36, 1425-1432.	0.7	18
153	The effects of Nrf2 deletion on placental morphology and exchange capacity in the mouse. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2017, 30, 2068-2073.	0.7	18
154	Parent cells for trophoblast hybridization I: Isolation of extravillous trophoblast cells from human term chorion laeve. <i>Placenta</i> , 1997, 18, 181-190.	0.7	17
155	Platelet-derived factors impair placental chorionic gonadotropin beta-subunit synthesis. <i>Journal of Molecular Medicine</i> , 2020, 98, 193-207.	1.7	17
156	Parent cells for trophoblast hybridization II: AC1 and related trophoblast cell lines, a family of HGPRT-negative mutants of the choriocarcinoma cell line JEG-3. <i>Placenta</i> , 1997, 18, 191-201.	0.7	16
157	Soluble factors released by placental villous tissue: Interleukin-1 is a potential mediator of endothelial dysfunction. <i>American Journal of Obstetrics and Gynecology</i> , 2005, 192, 618-624.	0.7	16
158	Biobanking of different body fluids within the frame of IVF—a standard operating procedure to improve reproductive biology research. <i>Journal of Assisted Reproduction and Genetics</i> , 2017, 34, 283-290.	1.2	16
159	Predicting the Risk to Develop Preeclampsia in the First Trimester Combining Promoter Variant -98A/C of LGALS13 (Placental Protein 13), Black Ethnicity, Previous Preeclampsia, Obesity, and Maternal Age. <i>Fetal Diagnosis and Therapy</i> , 2018, 43, 250-265.	0.6	16
160	Increased placental sFlt-1 but unchanged PlGF expression in late-onset preeclampsia. <i>Hypertension in Pregnancy</i> , 2017, 36, 175-185.	0.5	15
161	The Salivary Scavenger and Agglutinin (SALSA) in Healthy and Complicated Pregnancy. <i>PLoS ONE</i> , 2016, 11, e0147867.	1.1	14
162	Keratins in the human trophoblast. <i>Histology and Histopathology</i> , 2013, 28, 817-25.	0.5	14

#	ARTICLE	IF	CITATIONS
163	Expression of the actin stress fiber-associated protein CLP36 in the human placenta. <i>Histochemistry and Cell Biology</i> , 2006, 126, 465-471.	0.8	13
164	Barrier thickness matters. <i>Nature Nanotechnology</i> , 2011, 6, 758-759.	15.6	13
165	Effects of calcium, magnesium, low-dose aspirin and low-molecular-weight heparin on the release of PP13 from placental explants. <i>Placenta</i> , 2011, 32, S55-S64.	0.7	13
166	Cryogenic and low temperature preservation of human placental villous explants – A new way to explore drugs in pregnancy disorders. <i>Placenta</i> , 2011, 32, S65-S76.	0.7	13
167	Placental expression of d-chiro-inositol phosphoglycans in preeclampsia. <i>Placenta</i> , 2012, 33, 882-884.	0.7	13
168	Minimal Alteration in the Ratio of Circulatory Fetal DNA to Fetal Corticotropin-Releasing Hormone mRNA Level in Preeclampsia. <i>Fetal Diagnosis and Therapy</i> , 2006, 21, 246-249.	0.6	12
169	Fibulin-5 expression in the human placenta. <i>Histochemistry and Cell Biology</i> , 2011, 135, 203-213.	0.8	12
170	Endothelin-1 Stimulates Proliferation of First-Trimester Trophoblasts via the A- and B-Type Receptor and Invasion via the B-Type Receptor. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, 3408-3415.	1.8	12
171	Arterial endothelial cytokines guide extravillous trophoblast invasion towards spiral arteries; an in-vitro study with the trophoblast cell line ACH-3P and female non-uterine endothelial cells. <i>Placenta</i> , 2016, 38, 49-56.	0.7	12
172	Personalized Therapy Against Preeclampsia by Replenishing Placental Protein 13 (PP13) Targeted to Patients With Impaired PP13 Molecule or Function. <i>Computational and Structural Biotechnology Journal</i> , 2017, 15, 433-446.	1.9	12
173	An updated view on the origin and use of angiogenic biomarkers for preeclampsia. <i>Expert Review of Molecular Diagnostics</i> , 2018, 18, 1053-1061.	1.5	12
174	Placental protein 13 (PP13) stimulates rat uterine vessels after slow subcutaneous administration. <i>International Journal of Women's Health</i> , 2019, Volume 11, 213-222.	1.1	12
175	Biobank Graz: The Hub for Innovative Biomedical Research. <i>Open Journal of Bioresources</i> , 2016, 3, .	1.5	12
176	Extracellular pH modulates the secretion of fibronectin isoforms by human trophoblast. <i>Acta Histochemica</i> , 2002, 104, 51-63.	0.9	11
177	Impact of constant storage temperatures and multiple warming cycles on the quality of stored red blood cells. <i>Vox Sanguinis</i> , 2014, 106, 45-54.	0.7	11
178	(Dis)similarities between the Decidual and Tumor Microenvironment. <i>Biomedicines</i> , 2022, 10, 1065.	1.4	11
179	In-vitro effects of the antimicrobial peptide Ala8,13,18-magainin II amide on isolated human first trimester villous trophoblast cells. <i>Reproductive Biology and Endocrinology</i> , 2011, 9, 49.	1.4	10
180	First trimester serum markers to predict preeclampsia. <i>Wiener Medizinische Wochenschrift</i> , 2012, 162, 191-195.	0.5	9

#	ARTICLE	IF	CITATIONS
181	Metalloprotease Dependent Release of Placenta Derived Fractalkine. <i>Mediators of Inflammation</i> , 2014, 2014, 1-12.	1.4	9
182	Low-dose-rate ionizing irradiation for inhibition of secondary cataract formation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001, 49, 817-825.	0.4	8
183	Cytokeratin Antibodies as Differential Markers of Trophoblast and Fetomaternal Syncytial Plaques in the Sheep Placentome. <i>Placenta</i> , 2007, 28, 1107-1109.	0.7	8
184	Proliferative responses in the placenta after endotoxin exposure in preterm fetal sheep. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2008, 138, 152-157.	0.5	8
185	Preeclampsia – Aetiology, Current Diagnostics and Clinical Management, New Therapy Options and Future Perspectives. <i>Geburtshilfe Und Frauenheilkunde</i> , 2012, 72, 1107-1116.	0.8	8
186	Cytotoxic Effect of Advanced Glycation end Products. <i>Biotechnology and Biotechnological Equipment</i> , 2009, 23, 1072-1078.	0.5	7
187	d-chiro-inositol phosphoglycan expression in human placenta at term in diabetes. <i>Archives of Gynecology and Obstetrics</i> , 2013, 288, 459-460.	0.8	7
188	Innovative ways for information transfer in biobanking. <i>Campus Wide Information Systems</i> , 2013, 30, 379-385.	1.1	7
189	Phospholipid scramblase 1 (PLSCR1) in villous trophoblast of the human placenta. <i>Histochemistry and Cell Biology</i> , 2015, 143, 381-396.	0.8	7
190	Reduced Placental CD24 in Preterm Preeclampsia Is an Indicator for a Failure of Immune Tolerance. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8045.	1.8	7
191	The apoptosis cascade in human villous trophoblast. <i>Placenta</i> , 1999, 20, 215-242.	0.7	6
192	Development of early non-invasive markers and means for the diagnosis and progression monitoring of preeclampsia and tailoring putative therapies (project pregenesys 037244). <i>Placenta</i> , 2011, 32, S1-S3.	0.7	6
193	Multiple injections of anti-mouse $\hat{2}$ glycoprotein 1 antibody induce FcR $\hat{3}$ -dependent fetal growth restriction (FGR) in mice. <i>Placenta</i> , 2012, 33, 540-547.	0.7	6
194	Maternal and fetal factors and placentation: implications for pre-eclampsia. <i>Pregnancy Hypertension</i> , 2014, 4, 244.	0.6	6
195	Mechanisms Regulating Human Trophoblast Fusion. , 2011, , 203-217.		6
196	Molecular Markers for Human Placental Investigation. , 2006, 121, 335-348.		5
197	Na $\hat{+}$ Ca $\hat{2+}$,K $\hat{+}$ exchange in bovine retinal rod outer segments: quantitative characterization of normal and reversed mode. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1189, 119-126.	1.4	5
198	Pixelwise Quantification of Placental Perfusion Visualized by 3D Power Doppler Sonography. <i>Ultraschall in Der Medizin</i> , 2012, 33, E88-E94.	0.8	5

#	ARTICLE	IF	CITATIONS
199	Developing potential biomarkers for preeclampsia: Why is the current strategy failing?. <i>Pregnancy Hypertension</i> , 2013, 3, 59.	0.6	5
200	Differences in d-chiro-inositol-phosphoglycan expression between first and third trimester human placenta. <i>Pregnancy Hypertension</i> , 2013, 3, 1-2.	0.6	5
201	Human Placentation. , 2018, , 431-439.		5
202	Pharmacokinetics of placental protein 13 after intravenous and subcutaneous administration in rabbits. <i>Drug Design, Development and Therapy</i> , 2018, Volume 12, 1977-1983.	2.0	5
203	Evidence for a cGMP gated cation channel in photoreceptor cell membranes of <i>Sepia officinalis</i> . <i>FEBS Letters</i> , 1995, 364, 189-192.	1.3	4
204	Expression of serum amyloid A4 in human trophoblast-like choriocarcinoma cell lines and human first trimester/term trophoblast cells. <i>Placenta</i> , 2014, 35, 661-664.	0.7	4
205	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
206	Amnion-derived mesenchymal stem cells improve viability of endothelial cells exposed to shear stress in ePTFE grafts. <i>International Journal of Artificial Organs</i> , 2019, 42, 80-87.	0.7	4
207	Special Issue "Molecular and Cellular Mechanisms of Preeclampsia". <i>International Journal of Molecular Sciences</i> , 2020, 21, 4801.	1.8	4
208	Extracellular matrix components of the placental extravillous trophoblast: immunocytochemistry and ultrastructural distribution. <i>Histochemistry and Cell Biology</i> , 1996, 106, 291-301.	0.8	4
209	Tenney's Parker changes and apoptotic versus necrotic shedding of trophoblast in normal pregnancy and pre-eclampsia. , 2001, , 152-163.		3
210	Amnion-derived mesenchymal stromal cells show a mesenchymal epithelial phenotype in culture. <i>Cell and Tissue Banking</i> , 2014, 15, 193-198.	0.5	3
211	A revised picture of extravillous trophoblast invasion. <i>Journal of Reproductive Health and Medicine</i> , 2016, 2, S9-S14.	0.3	3
212	Trophoblast Invasion: Remodelling of Spiral Arteries and Beyond. <i>Comprehensive Gynecology and Obstetrics</i> , 2018, , 47-62.	0.0	3
213	Physical Activity and Sedentary Time in Pregnancy: An Exploratory Study on Oxidative Stress Markers in the Placenta of Women with Obesity. <i>Biomedicines</i> , 2022, 10, 1069.	1.4	3
214	First trimester trophoblast cell line ACH-3P as model to study invasion into arteries vs. veins. <i>Placenta</i> , 2014, 35, A99-A100.	0.7	2
215	Oxygen and glucose dependent viability of HLA-G positive and negative trophoblasts using ACH-3P cells as first trimester trophoblast-derived cell model. <i>Journal of Reproductive Health and Medicine</i> , 2015, 1, 4-9.	0.3	2
216	Unterschiede in der Trophoblastinvasion bei der Tubar- und IntrauteringraviditÄt. <i>Geburtshilfe Und Frauenheilkunde</i> , 2002, 62, 550-553.	0.8	1

#	ARTICLE	IF	CITATIONS
217	The Placenta and Fetal Membranes. , 0, , 16-25.		1
218	Pregnancy Complications (FGR, Preeclampsia). , 2018, , 607-614.		1
219	Plazentainsuffizienz/Plazentaassoziierte Erkrankungen. , 2018, , 247-285.		1
220	The Placenta and Fetal Membranes. , 0, , 19-27.		1
221	Author's reply to commentary by Hennig Stieve. FEBS Letters, 1995, 373, 188-188.	1.3	0
222	Apoptotic death ligands and interleukins in the vitreous of diabetic patients. Spektrum Der Augenheilkunde, 2010, 24, 305-310.	0.2	0
223	Orthologie der Plazenta. , 2013, , 505-517.		0
224	The Placenta and Fetal Membranes. , 2018, , 18-28.		0
225	Development of the Placenta and Its Circulation. , 2020, , 55-68.e2.		0
226	Reproductive Medicine"An Interdisciplinary Open Access Journal for an Interdisciplinary and Growing Community. Reproductive Medicine, 2020, 1, 15-16.	0.3	0
227	Preeclampsia: Placental Origins, New Predictors and New Therapeutic Strategies. Current Women's Health Reviews, 2007, 3, 228-234.	0.1	0
228	Plazentaentwicklung mit histologischen Aspekten. , 2018, , 1-27.		0
229	Introduction to Biobanking. , 2022, , 1-7.		0