Michael Toft Overgaard

List of Publications by Citations

108 papers	6,217 citations	43 h-index	77 g-index
122 ext. papers	6,917 ext. citations	5.4 avg, IF	5.15 L-index

#	Paper	IF	Citations
108	The insulin-like growth factor (IGF)-dependent IGF binding protein-4 protease secreted by human fibroblasts is pregnancy-associated plasma protein-A. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 3149-53	11.5	563
107	Molecular phenotyping of human endometrium distinguishes menstrual cycle phases and underlying biological processes in normo-ovulatory women. *Endocrinology*, **2006**, 147, 1097-121	4.8	452
106	Pregnancy-associated plasma protein A as a marker of acute coronary syndromes. *New England Journal of Medicine*, **2001**, 345, 1022-9	59.2	444
105	Mutations in calmodulin cause ventricular tachycardia and sudden cardiac death. *American Journal of Human Genetics*, **2012**, 91, 703-12	11	282
104	Pregnancy-associated plasma protein-A (PAPP-A) cleaves insulin-like growth factor binding protein (IGFBP)-5 independent of IGF: implications for the mechanism of IGFBP-4 proteolysis by PAPP-A. *FEBS Letters*, **2001**, 504, 36-40	3.8	212
103	Metalloproteinase pregnancy-associated plasma protein A is a critical growth regulatory factor during fetal development. *Development (Cambridge)*, **2004**, 131, 1187-94	6.6	211
102	Pregnancy-associated plasma protein-A2 (PAPP-A2), a novel insulin-like growth factor-binding protein-5 proteinase. *Journal of Biological Chemistry*, **2001**, 276, 21849-53	5.4	175
101	Expression of recombinant human pregnancy-associated plasma protein-A and identification of the proform of eosinophil major basic protein as its physiological inhibitor. *Journal of Biological Chemistry*, **2000**, 275, 31128-33	5.4	140
100	Mutational analysis of the proteolytic domain of pregnancy-associated plasma protein-A (PAPP-A): classification as a metzincin. *Biochemical Journal*, **2001**, 358, 359-367	3.8	133
99	Expression of membrane progesterone receptors on human T lymphocytes and Jurkat cells and activation of G-proteins by progesterone. *Journal of Endocrinology*, **2008**, 196, 67-77	4.7	126
98	Severe preeclampsia-related changes in gene expression at the maternal-fetal interface include sialic acid-binding immunoglobulin-like lectin-6 and pappalysin-2. *Endocrinology*, **2009**, 150, 452-62	4.8	125
97	Insulin-like growth factor binding protein-4 protease produced by smooth muscle cells increases in the coronary artery after angioplasty. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2001**, 21, 335-41	9.4	124
96	Pregnancy-associated plasma protein-A is involved in insulin-like growth factor binding protein-2 (IGFBP-2) proteolytic degradation in bovine and porcine preovulatory follicles: identification of cleavage site and characterization of IGFBP-2 degradation. *Biology of Reproduction*, **2003**, 68, 77-86	3.9	108
95	Calmodulin mutations associated with long QT syndrome prevent inactivation of cardiac L-type Ca(2+) currents and promote proarrhythmic behavior in ventricular myocytes. *Journal of Molecular and Cellular Cardiology*, **2014**, 74, 115-24	5.8	107
94	Regulation of human ADAM 12 protease by the prodomain. Evidence for a functional cysteine switch. *Journal of Biological Chemistry*, **1999**, 274, 13427-33	5.4	107
93	Identification and regulation of the IGFBP-4 protease and its physiological inhibitor in human trophoblasts and endometrial stroma: evidence for paracrine regulation of IGF-II bioavailability in the placental bed during human implantation. *Journal of Clinical Endocrinology and Metabolism*, **2002**, 87, 2359-66	5.6	106
92	Expression of Fap amyloids in Pseudomonas aeruginosa, P. fluorescens, and P. putida results in aggregation and increased biofilm formation. *MicrobiologyOpen*, **2013**, 2, 365-82	3.4	105

91	Dickkopf-1, an inhibitor of Wnt signaling, is regulated by progesterone in human endometrial stromal cells. *Journal of Clinical Endocrinology and Metabolism*, **2006**, 91, 1453-61	5.6	100
90	Evidence that the insulin-like growth factor binding protein-4 protease in human ovarian follicular fluid is pregnancy associated plasma protein-A. *Journal of Clinical Endocrinology and Metabolism*, **1999**, 84, 4742-5	5.6	98
89	Comparative Evaluation of the Antimicrobial Activity of Different Antimicrobial Peptides against a Range of Pathogenic Bacteria. *PLoS ONE*, **2015**, 10, e0144611	3.7	97
88	Messenger ribonucleic acid levels of pregnancy-associated plasma protein-A and the proform of eosinophil major basic protein: expression in human reproductive and nonreproductive tissues. *Biology of Reproduction*, **1999**, 61, 1083-9	3.9	93
87	Mutational analysis of the proteolytic domain of pregnancy-associated plasma protein-A (PAPP-A): classification as a metzincin. *Biochemical Journal*, **2001**, 358, 359-67	3.8	90
86	Pregnancy-associated plasma protein-A (PAPP-A) in ovine, bovine, porcine, and equine ovarian follicles: involvement in IGF binding protein-4 proteolytic degradation and mRNA expression during follicular development. *Endocrinology*, **2001**, 142, 5243-53	4.8	90
85	Pregnancy-associated plasma protein A and its endogenous inhibitor, the proform of eosinophil major basic protein (proMBP), are related to complex stenosis morphology in patients with stable angina pectoris. *Circulation*, **2004**, 109, 1724-8	16.7	78
84	Cell surface targeting of pregnancy-associated plasma protein A proteolytic activity. Reversible adhesion is mediated by two neighboring short consensus repeats. *Journal of Biological Chemistry*, **2002**, 277, 47225-34	5.4	76
83	Relationship among pregnancy associated plasma protein-A levels, clinical characteristics, and coronary artery disease extent in patients with chronic stable angina pectoris. *European Heart Journal*, **2005**, 26, 2093-8	9.5	71
82	Localization and regulation of pregnancy-associated plasma protein a expression in healing human skin. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 4465-71	5.6	62
81	Pregnancy-associated plasma protein a gene expression as a target of inflammatory cytokines. *Endocrinology*, **2004**, 145, 1124-9	4.8	62
80	Prognostic value of circulating pregnancy-associated plasma protein levels in patients with chronic stable angina. *European Heart Journal*, **2006**, 27, 1678-84	9.5	61
79	Substrate specificity of the metalloproteinase pregnancy-associated plasma protein-A (PAPP-A) assessed by mutagenesis and analysis of synthetic peptides: substrate residues distant from the scissile bond are critical for proteolysis. *Biochemical Journal*, **2002**, 367, 31-40	3.8	61
78	Biochemical evidence for heme linkage through esters with Asp-93 and Glu-241 in human eosinophil peroxidase. The ester with Asp-93 is only partially formed in vivo. *Journal of Biological Chemistry*, **1999**, 274, 16953-8	5.4	61
77	Calmodulin in a heartbeat. *FEBS Journal*, **2013**, 280, 5511-32	5.7	57
76	Up date on IGFBP-4: regulation of IGFBP-4 levels and functions, in vitro and in vivo. *Growth Hormone and IGF Research*, **2004**, 14, 71-84	2	57
75	Participation of mitogen-activated protein kinase in luteinizing hormone-induced differential regulation of steroidogenesis and steroidogenic gene expression in mural and cumulus granulosa cells of mouse preovulatory follicles. *Biology of Reproduction*, **2006**, 75, 859-67	3.9	56
74	Transforming growth factor-beta regulation of the insulin-like growth factor binding protein-4 protease system in cultured human osteoblasts. *Journal of Bone and Mineral Research*, **2003**, 18, 1066-72	6.3	55

73	Complex of pregnancy-associated plasma protein-A and the proform of eosinophil major basic protein. Disulfide structure and carbohydrate attachment. *Journal of Biological Chemistry*, **2003**, 278, 2106-17	5.4	54
72	The domain of the Bacillus subtilis DEAD-box helicase YxiN that is responsible for specific binding of 23S rRNA has an RNA recognition motif fold. *Rna*, **2006**, 12, 959-67	5.8	53
71	Pregnancy-associated plasma protein A proteolytic activity is associated with the human placental trophoblast cell membrane. *Journal of Clinical Endocrinology and Metabolism*, **2002**, 87, 5235-40	5.6	51
70	Transgenic overexpression of pregnancy-associated plasma protein-A in murine arterial smooth muscle accelerates atherosclerotic lesion development. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 299, H284-91	5.2	50
69	Cytokine stimulation of pregnancy-associated plasma protein A expression in human coronary artery smooth muscle cells: inhibition by resveratrol. *American Journal of Physiology - Cell Physiology*, **2006**, 290, C183-8	5.4	50
68	Lack of functional pregnancy-associated plasma protein-A (PAPPA) compromises mouse ovarian steroidogenesis and female fertility. *Biology of Reproduction*, **2010**, 82, 1129-38	3.9	46
67	Arrhythmogenic Calmodulin Mutations Affect the Activation and Termination of Cardiac Ryanodine Receptor-mediated Ca2+ Release. *Journal of Biological Chemistry*, **2015**, 290, 26151-62	5.4	45
66	The Lin12-notch repeats of pregnancy-associated plasma protein-A bind calcium and determine its proteolytic specificity. *Journal of Biological Chemistry*, **2004**, 279, 38525-31	5.4	43
65	Biochemical mechanism of action of a diketopiperazine inactivator of plasminogen activator inhibitor-1. *Biochemical Journal*, **2003**, 373, 723-32	3.8	39
64	Human Calmodulin Mutations. *Frontiers in Molecular Neuroscience*, **2018**, 11, 396	6.1	38
63	Calmodulin mutations causing catecholaminergic polymorphic ventricular tachycardia confer opposing functional and biophysical molecular changes. *FEBS Journal*, **2015**, 282, 803-16	5.7	33
62	Inhibition of the proteolytic activity of pregnancy-associated plasma protein-A by targeting substrate exosite binding. *Journal of Biological Chemistry*, **2008**, 283, 16772-80	5.4	33
61	Proteinase inhibition by proform of eosinophil major basic protein (pro-MBP) is a multistep process of intra- and intermolecular disulfide rearrangements. *Journal of Biological Chemistry*, **2005**, 280, 9823-32	5.4	33
60	Pregnancy-Associated Plasma Protein-A (PAPP-A) in Ovine, Bovine, Porcine, and Equine Ovarian Follicles: Involvement in IGF Binding Protein-4 Proteolytic Degradation and mRNA Expression During Follicular Development		33
59	Molecular regulation of the IGF-binding protein-4 protease system in human fibroblasts: identification of a novel inducible inhibitor. *Endocrinology*, **2002**, 143, 1199-205	4.8	32
58	Quantification and Characterization of Pregnancy-associated Complexes of Angiotensinogen and the Proform of Eosinophil Major Basic Protein in Serum and Amniotic Fluid. *Clinical Chemistry*, **2000**, 46, 1099-1105	5.5	32
57	Cell surface adhesion of pregnancy-associated plasma protein-A is mediated by four clusters of basic residues located in its third and fourth CCP module. *FEBS Journal*, **2004**, 271, 1525-35		27
56	Proteolytic degradation of IGF-binding protein (IGFBP)-2 in equine ovarian follicles: involvement of pregnancy-associated plasma protein-A (PAPP-A) and association with dominant but not subordinated follicles. *Journal of Endocrinology*, **2004**, 182, 457-66	4.7	26

55	The insulin-like growth factor system in multiple myeloma: diagnostic and therapeutic potential. *Oncotarget*, **2016**, 7, 48732-48752	3.3	26
54	Biochemical Foundations of Health and Energy Conservation in Hibernating Free-ranging Subadult Brown Bear Ursus arctos. *Journal of Biological Chemistry*, **2016**, 291, 22509-22523	5.4	25
53	Expression of recombinant murine pregnancy-associated plasma protein-A (PAPP-A) and a novel variant (PAPP-Ai) with differential proteolytic activity. *FEBS Journal*, **2002**, 269, 2247-56		25
52	The proform of eosinophil major basic protein: a new maternal serum marker for Down syndrome. *Prenatal Diagnosis*, **1999**, 19, 905-10	3.2	25
51	Pregnancy-associated plasma protein-A (PAPP-A) expression and insulin-like growth factor binding protein-4 protease activity in normal and malignant ovarian surface epithelial cells. *International Journal of Cancer*, **2004**, 110, 633-40	7.5	24
50	AnOxPePred: using deep learning for the prediction of antioxidative properties of peptides. *Scientific Reports*, **2020**, 10, 21471	4.9	24
49	Inhibition of proteolysis by the proform of eosinophil major basic protein (proMBP) requires covalent binding to its target proteinase. *FEBS Letters*, **2004**, 560, 147-52	3.8	22
48	Emulsifying peptides from potato protein predicted by bioinformatics: Stabilization of fish oil-in-water emulsions. *Food Hydrocolloids*, **2020**, 101, 105529	10.6	22
47	The Arrhythmogenic Calmodulin p.Phe142Leu Mutation Impairs C-domain Ca2+ Binding but Not Calmodulin-dependent Inhibition of the Cardiac Ryanodine Receptor. *Journal of Biological Chemistry*, **2017**, 292, 1385-1395	5.4	21
46	The Bacillus subtilis RNA helicase YxiN is distended in solution. *Biophysical Journal*, **2008**, 94, L01-3	2.9	21
45	Complete cDNA sequence of the preproform of human pregnancy-associated plasma protein-A. Evidence for expression in the brain and induction by cAMP. *FEBS Journal*, **1996**, 237, 159-63		21
44	A robust immunoassay for pregnancy-associated plasma protein-A2 based on analysis of circulating antigen: establishment of normal ranges in pregnancy. *Molecular Human Reproduction*, **2013**, 19, 756-63	4.4	20
43	Arrhythmia mutations in calmodulin cause conformational changes that affect interactions with the cardiac voltage-gated calcium channel. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E10556-E10565	11.5	20
42	ADAMDEC1 is a metzincin metalloprotease with dampened proteolytic activity. *Journal of Biological Chemistry*, **2013**, 288, 21367-21375	5.4	19
41	Identification of emulsifier potato peptides by bioinformatics: application to omega-3 delivery emulsions and release from potato industry side streams. *Scientific Reports*, **2020**, 10, 690	4.9	18
40	Therapeutic endometrial scratching and implantation after in vitro fertilization: a multicenter randomized controlled trial. *Fertility and Sterility*, **2019**, 112, 1015-1021	4.8	17
39	Arrhythmia mutations in calmodulin can disrupt cooperativity of Ca binding and cause misfolding. *Journal of Physiology*, **2020**, 598, 1169-1186	3.9	15
38	The GH-IGF-IGFBP axis is changed in Turner syndrome: partial normalization by HRT. *Growth Hormone and IGF Research*, **2006**, 16, 332-9	2	15

37	The structure, viscoelasticity and charge of potato peptides adsorbed at the oil-water interface determine the physicochemical stability of fish oil-in-water emulsions. *Food Hydrocolloids*, **2021**, 115, 106605	10.6	14
36	Molecular Basis of Enhanced Activity in Factor VIIa-Trypsin Variants Conveys Insights into Tissue Factor-mediated Allosteric Regulation of Factor VIIa Activity. *Journal of Biological Chemistry*, **2016**, 291, 4671-83	5.4	13
35	Heparin-binding mechanism of the IGF2/IGF-binding protein 2 complex. *Journal of Molecular Endocrinology*, **2014**, 52, 345-55	4.5	13
34	Effects of mutated pregnancy-associated plasma protein-a on atherosclerotic lesion development in mice. *Endocrinology*, **2013**, 154, 246-52	4.8	13
33	A Novel Locus Harbouring a Functional CD164 Nonsense Mutation Identified in a Large Danish Family with Nonsyndromic Hearing Impairment. *PLoS Genetics*, **2015**, 11, e1005386	6	13
32	Definition, expression, and characterization of a protein domain in the N-terminus of pregnancy-associated plasma protein-A distantly related to the family of laminin G-like modules. *Protein Expression and Purification*, **2006**, 48, 261-73	2	13
31	Screening for Down's syndrome in early and late first and second trimester using six maternal serum markers. *Clinical Genetics*, **2004**, 65, 11-6	4	13
30	The IGF-1 receptor inhibitor picropodophyllin potentiates the anti-myeloma activity of a BH3-mimetic. *Oncotarget*, **2014**, 5, 11193-208	3.3	13
29	The brown bear as a translational model for sedentary lifestyle-related diseases. *Journal of Internal Medicine*, **2020**, 287, 263-270	10.8	13
28	Ca-dependent calmodulin binding to cardiac ryanodine receptor (RyR2) calmodulin-binding domains. *Biochemical Journal*, **2019**, 476, 193-209	3.8	13
27	The arrhythmogenic N53I variant subtly changes the structure and dynamics in the calmodulin N-terminal domain, altering its interaction with the cardiac ryanodine receptor. *Journal of Biological Chemistry*, **2020**, 295, 7620-7634	5.4	12
26	The Insulin-Like Growth Factor System in the Long-Lived Naked Mole-Rat. *PLoS ONE*, **2015**, 10, e0145587	3.7	11
25	Constitutive expression of pregnancy-associated plasma protein-A in arterial smooth muscle reduces the vascular response to injury in vivo. *American Journal of Physiology - Endocrinology and Metabolism*, **2013**, 304, E139-44	6	9
24	IGFBP-4 degradation by pregnancy-associated plasma protein-A in MC3T3 osteoblasts. *Biochemical and Biophysical Research Communications*, **2004**, 325, 698-706	3.4	9
23	Diminished inhibition and facilitated activation of RyR2-mediated Ca release is a common defect of arrhythmogenic calmodulin mutations. *FEBS Journal*, **2019**, 286, 4554-4578	5.7	8
22	IGF dependent modulation of IGF binding protein (IGFBP) proteolysis by pregnancy-associated plasma protein-A (PAPP-A): multiple PAPP-A-IGFBP interaction sites. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 2701-9	4	8
21	Antimicrobial peptide CAP18 and its effect on Yersinia ruckeri infections in rainbow trout Oncorhynchus mykiss (Walbaum): comparing administration by injection and oral routes. *Journal of Fish Diseases*, **2017**, 40, 97-104	2.6	7
20	Evidence for restricted reactivity of ADAMDEC1 with protein substrates and endogenous inhibitors. *Journal of Biological Chemistry*, **2015**, 290, 6620-9	5.4	7

19	Dissection of the antimicrobial and hemolytic activity of Cap18: Generation of Cap18 derivatives with enhanced specificity. *PLoS ONE*, **2018**, 13, e0197742	3.7	7
18	Beating tissue factor at its own game: Design and properties of a soluble tissue factor-independent coagulation factor VIIa. *Journal of Biological Chemistry*, **2020**, 295, 517-528	5.4	6
17	Biological age of the endometrium using DNA methylation. *Reproduction*, **2018**, 155, 167-172	3.8	6
16	Emulsifier peptides derived from seaweed, methanotrophic bacteria, and potato proteins identified by quantitative proteomics and bioinformatics. *Food Chemistry*, **2021**, 362, 130217	8.5	6
15	Abnormal IGF-Binding Protein Profile in the Bone Marrow of Multiple Myeloma Patients. *PLoS ONE*, **2016**, 11, e0154256	3.7	5
14	Role of cardiac ryanodine receptor calmodulin-binding domains in mediating the action of arrhythmogenic calmodulin N-domain mutation N54I. *FEBS Journal*, **2020**, 287, 2256-2280	5.7	5
13	Study of the tryptophan-terbium FRET pair coupled to silver nanoprisms for biosensing applications. *Physical Chemistry Chemical Physics*, **2013**, 15, 8838-44	3.6	4
12	Pappalysin-1 (pregnancy-associated plasma protein-A) **2004**, 754-757		4
11	Biofunctionality of Enzymatically Derived Peptides from Codfish () Frame: Bulk In Vitro Properties, Quantitative Proteomics, and Bioinformatic Prediction. *Marine Drugs*, **2020**, 18,	6	4
10	Monoclonal antibodies targeting the disintegrin-like domain of ADAMDEC1 modulates the proteolytic activity and enables quantification of ADAMDEC1 protein in human plasma. *MAbs*, **2018**, 10, 118-128	6.6	4
9	Allostery in Coagulation Factor VIIa Revealed by Ensemble Refinement of Crystallographic Structures. *Biophysical Journal*, **2019**, 116, 1823-1835	2.9	3
8	Simple and reliable procedure for PCR amplification of genomic DNA from yeast cells using short sequencing primers. *IUBMB Life*, **1997**, 42, 169-72	4.7	2
7	Proteomic characterization of pilot scale hot-water extracts from the industrial carrageenan red seaweed Eucheuma denticulatum		2
6	Infanticide vs. inherited cardiac arrhythmias. *Europace*, **2021**, 23, 441-450	3.9	2
5	Characterization and comparison of recombinant full-length ursine and human sex hormone-binding globulin. *FEBS Open Bio*, **2021**,	2.7	1
4	Proteomic characterization of pilot scale hot-water extracts from the industrial carrageenan red seaweed Eucheuma denticulatum. *Algal Research*, **2022**, 62, 102619	5	1
3	A systematic approach for evaluating the role of surface-exposed loops in trypsin-like serine proteases applied to the 170 loop in coagulation factor VIIa.. *Scientific Reports*, **2022**, 12, 3747	4.9	1
2	Antioxidant peptides derived from potato, seaweed, microbial and spinach proteins: Oxidative stability of 5% fish oil-in-water emulsions.. *Food Chemistry*, **2022**, 385, 132699	8.5	1

1	Plasma proteomics data from hibernating and active Scandinavian brown bears.. *Data in Brief*, **2022**, 41, 107959	1.2	0