

Gunilla T Westermarck

List of Publications by Year in descending order

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96
papers

7,207
citations

76326

40
h-index

56724

83
g-index

100
all docs

100
docs citations

100
times ranked

6630
citing authors

#	ARTICLE	IF	CITATIONS
1	Islet Amyloid Polypeptide, Islet Amyloid, and Diabetes Mellitus. <i>Physiological Reviews</i> , 2011, 91, 795-826.	28.8	851
2	Islet Amyloid: A Critical Entity in the Pathogenesis of Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004, 89, 3629-3643.	3.6	495
3	Î²-Cell Loss and Î²-Cell Apoptosis in Human Type 2 Diabetes Are Related to Islet Amyloid Deposition. <i>American Journal of Pathology</i> , 2011, 178, 2632-2640.	3.8	271
4	Protein fibrils in nature can enhance amyloid protein A amyloidosis in mice: Cross-seeding as a disease mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6098-6102.	7.1	266
5	Transmissibility of systemic amyloidosis by a prion-like mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6979-6984.	7.1	247
6	[1] Staining methods for identification of amyloid in tissue. <i>Methods in Enzymology</i> , 1999, 309, 3-25.	1.0	243
7	InÂVivo Seeding and Cross-Seeding of Localized Amyloidosis. <i>American Journal of Pathology</i> , 2015, 185, 834-846.	3.8	235
8	Islet Amyloid Polypeptide in Patients with Pancreatic Cancer and Diabetes. <i>New England Journal of Medicine</i> , 1994, 330, 313-318.	27.0	227
9	AA Amyloidosis: Pathogenesis and Targeted Therapy. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2015, 10, 321-344.	22.4	201
10	Human Astrocytes Transfer Aggregated Alpha-Synuclein via Tunneling Nanotubes. <i>Journal of Neuroscience</i> , 2017, 37, 11835-11853.	3.6	196
11	Effects of beta cell granule components on human islet amyloid polypeptide fibril formation. <i>FEBS Letters</i> , 1996, 379, 203-206.	2.8	179
12	Imaging Distinct Conformational States of Amyloid-Î² Fibrils in Alzheimerâ€™s Disease Using Novel Luminescent Probes. <i>ACS Chemical Biology</i> , 2007, 2, 553-560.	3.4	177
13	Widespread Amyloid Deposition in Transplanted Human Pancreatic Islets. <i>New England Journal of Medicine</i> , 2008, 359, 977-979.	27.0	166
14	Increased Insulin Secretion and Glucose Tolerance in Mice Lacking Islet Amyloid Polypeptide (Amylin). <i>Biochemical and Biophysical Research Communications</i> , 1998, 250, 271-277.	2.1	149
15	Beneficial Effects of Insulin Versus Sulphonylurea on Insulin Secretion and Metabolic Control in Recently Diagnosed Type 2 Diabetic Patients. <i>Diabetes Care</i> , 2003, 26, 2231-2237.	8.6	149
16	Transplantation of macroencapsulated human islets within the bioartificial pancreas Î²Air to patients with type 1 diabetes mellitus. <i>American Journal of Transplantation</i> , 2018, 18, 1735-1744.	4.7	140
17	Proteostasis of Islet Amyloid Polypeptide: A Molecular Perspective of Risk Factors and Protective Strategies for Type II Diabetes. <i>Chemical Reviews</i> , 2021, 121, 1845-1893.	47.7	129
18	Transthyretin-derived amyloidosis: Probably a common cause of lumbar spinal stenosis. <i>Upsala Journal of Medical Sciences</i> , 2014, 119, 223-228.	0.9	124

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19	The N-terminal segment of protein AA determines its fibrillogenic property. <i>Biochemical and Biophysical Research Communications</i> , 1992, 182, 27-33.	2.1	123
20	Conjugated Polyelectrolytes as Conformation Sensitive Optical Probes for Staining and Characterization of Amyloid Deposits. <i>ChemBioChem</i> , 2006, 7, 1096-1104.	2.6	123
21	Islet amyloid polypeptide (IAPP): cDNA cloning and identification of an amyloidogenic region associated with the species-specific occurrence of age-related diabetes mellitus. <i>Experimental Cell Research</i> , 1989, 183, 484-493.	2.6	121
22	Cryo-EM fibril structures from systemic AA amyloidosis reveal the species complementarity of pathological amyloids. <i>Nature Communications</i> , 2019, 10, 1104.	12.8	113
23	Aberrant Processing of Human Proislet Amyloid Polypeptide Results in Increased Amyloid Formation. <i>Diabetes</i> , 2005, 54, 2117-2125.	0.6	109
24	Inhibition of hIAPP Amyloid-Fibril Formation and Apoptotic Cell Death by a Designed hIAPP Amyloid-Core-Containing Hexapeptide. <i>Chemistry and Biology</i> , 2005, 12, 797-809.	6.0	106
25	Amyloidogenic potential of foie gras. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10998-11001.	7.1	105
26	Prevention of Domain Swapping Inhibits Dimerization and Amyloid Fibril Formation of Cystatin C. <i>Journal of Biological Chemistry</i> , 2004, 279, 24236-24245.	3.4	102
27	Atomic structures of fibrillar segments of hIAPP suggest tightly mated β^2 -sheets are important for cytotoxicity. <i>ELife</i> , 2017, 6, .	6.0	95
28	Calcifying epithelial odontogenic (Pindborg) tumor-associated amyloid consists of a novel human protein. <i>Translational Research</i> , 2003, 142, 348-355.	2.3	90
29	Human islet amyloid polypeptide transgenic mice as a model of non-insulin-dependent diabetes mellitus (NIDDM). <i>FEBS Letters</i> , 1993, 323, 40-44.	2.8	82
30	Prion-like aggregates: infectious agents in human disease. <i>Trends in Molecular Medicine</i> , 2010, 16, 501-507.	6.7	81
31	Serum amyloid A and protein AA: Molecular mechanisms of a transmissible amyloidosis. <i>FEBS Letters</i> , 2009, 583, 2685-2690.	2.8	79
32	Islet amyloid polypeptide (IAPP) and pro-IAPP immunoreactivity in human islets of Langerhans. <i>Diabetes Research and Clinical Practice</i> , 1989, 7, 219-226.	2.8	76
33	Islet Amyloid Development in a Mouse Strain Lacking Endogenous Islet Amyloid Polypeptide (IAPP) but Expressing Human IAPP. <i>Molecular Medicine</i> , 2000, 6, 998-1007.	4.4	62
34	Electron tomography reveals the fibril structure and lipid interactions in amyloid deposits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5604-5609.	7.1	56
35	Codeposition of Apolipoprotein A-IV and Transthyretin in Senile Systemic (ATTR) Amyloidosis. <i>Biochemical and Biophysical Research Communications</i> , 2001, 285, 903-908.	2.1	51
36	Formation of amyloid in human pancreatic islets transplanted to the liver and spleen of nude mice. <i>Uppsala Journal of Medical Sciences</i> , 2003, 108, 193-204.	0.9	44

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37	The chaperone domain BRICHOS prevents amyloid I ² -peptide CNS toxicity in <i>Drosophila melanogaster</i> . <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 659-65.	2.4	44
38	BRICHOS domain of Bri2 inhibits islet amyloid polypeptide (IAPP) fibril formation and toxicity in human beta cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2752-E2761.	7.1	44
39	AA-Amyloidosis Can Be Transferred by Peripheral Blood Monocytes. <i>PLoS ONE</i> , 2008, 3, e3308.	2.5	44
40	Transthyretin and Amyloid in the Islets of Langerhans in Type-2 Diabetes. <i>Experimental Diabetes Research</i> , 2008, 2008, 1-7.	3.8	42
41	Further Evidence for Amyloid Deposition in Clinical Pancreatic Islet Grafts. <i>Transplantation</i> , 2012, 93, 219-223.	1.0	42
42	Heparan Sulfate Proteoglycans Are Important for Islet Amyloid Formation and Islet Amyloid Polypeptide-induced Apoptosis. <i>Journal of Biological Chemistry</i> , 2015, 290, 15121-15132.	3.4	39
43	Unwinding fibril formation of medin, the peptide of the most common form of human amyloid. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 822-828.	2.1	38
44	Fibrils from Designed Non-Amyloid-Related Synthetic Peptides Induce AA-Amyloidosis during Inflammation in an Animal Model. <i>PLoS ONE</i> , 2009, 4, e6041.	2.5	38
45	Observations in APP Bitransgenic Mice Suggest that Diffuse and Compact Plaques Form via Independent Processes in Alzheimer's Disease. <i>American Journal of Pathology</i> , 2011, 178, 2286-2298.	3.8	38
46	Pro Islet Amyloid Polypeptide (ProIAPP) Immunoreactivity in the Islets of Langerhans. <i>Uppsala Journal of Medical Sciences</i> , 2000, 105, 97-106.	0.9	35
47	Differences in amyloid deposition in islets of transgenic mice expressing human islet amyloid polypeptide versus human islets implanted into nude mice. <i>Metabolism: Clinical and Experimental</i> , 1999, 48, 448-454.	3.4	33
48	Islet amyloid in recent-onset type 1 diabetes—the DiViD study. <i>Uppsala Journal of Medical Sciences</i> , 2017, 122, 201-203.	0.9	31
49	Depletion of Spleen Macrophages Delays AA Amyloid Development: A Study Performed in the Rapid Mouse Model of AA Amyloidosis. <i>PLoS ONE</i> , 2013, 8, e79104.	2.5	28
50	Establishing the fluorescent amyloid ligand h-FTAA for studying human tissues with systemic and localized amyloid. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2016, 23, 98-108.	3.0	28
51	AA-Amyloid is cleared by endogenous immunological mechanisms. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2012, 19, 138-145.	3.0	27
52	Dissociated Insulin and Islet Amyloid Polypeptide Secretion from Isolated Rat Pancreatic Islets Cocultured with Human Pancreatic Adenocarcinoma Cells. <i>Pancreas</i> , 1999, 18, 403-409.	1.1	26
53	Islet Amyloid Polypeptide and Diabetes. <i>Current Protein and Peptide Science</i> , 2013, 14, 330-337.	1.4	26
54	Birth and Death of Human I ² -Cells in Pancreases from Cadaver Donors, Autopsies, Surgical Specimens, and Islets Transplanted into Mice. <i>Cell Transplantation</i> , 2014, 23, 139-151.	2.5	26

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55	Quantitative immunohistochemical analysis of islet amyloid polypeptide (IAPP) in normal, impaired glucose tolerant, and diabetic cats. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1998, 5, 255-261.	3.0	25
56	Noncerebral Amyloidoses: Aspects on Seeding, Cross-Seeding, and Transmission. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2018, 8, a024323.	6.2	25
57	Localized amyloids important in diseases outside the brain – lessons from the islets of Langerhans and the thoracic aorta. <i>FEBS Journal</i> , 2011, 278, 3918-3929.	4.7	24
58	High Plasma Levels of Islet Amyloid Polypeptide in Young with New-Onset of Type 1 Diabetes Mellitus. <i>PLoS ONE</i> , 2014, 9, e93053.	2.5	23
59	Cardiac microcalcifications in transthyretin (ATTR) amyloidosis. <i>International Journal of Cardiology</i> , 2022, 352, 84-91.	1.7	22
60	Islet Amyloid Polypeptide Triggers Limited Complement Activation and Binds Complement Inhibitor C4b-binding Protein, Which Enhances Fibril Formation. <i>Journal of Biological Chemistry</i> , 2012, 287, 10824-10833.	3.4	21
61	Rapid induction of experimental AA amyloidosis in mink by intravenous injection of amyloid enhancing factor. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2008, 15, 20-28.	3.0	20
62	<i>Drosophila Melanogaster</i> as a Model System for Studies of Islet Amyloid Polypeptide Aggregation. <i>PLoS ONE</i> , 2011, 6, e20221.	2.5	20
63	Is aggregated IAPP a cause of beta-cell failure in transplanted human pancreatic islets?. <i>Current Diabetes Reports</i> , 2005, 5, 184-188.	4.2	19
64	Phosphorylated β -synuclein in skin Schwann cells: a new biomarker for multiple system atrophy. <i>Brain</i> , 2023, 146, 1065-1074.	7.6	18
65	Extensive amyloid formation in transplanted microencapsulated mouse and human islets. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2012, 19, 87-93.	3.0	17
66	Ichthyin/NIPAL4 localizes to keratins and desmosomes in epidermis and Ichthyin mutations affect epidermal lipid metabolism. <i>Archives of Dermatological Research</i> , 2012, 304, 377-386.	1.9	17
67	Real-Time Monitoring of Apoptosis by Caspase-3-Like Protease Induced FRET Reduction Triggered by Amyloid Aggregation. <i>Experimental Diabetes Research</i> , 2008, 2008, 1-12.	3.8	16
68	A Protein AA-Variant Derived from a Novel Serum AA Protein, SAA1 β , in an Individual from Papua New Guinea. <i>Biochemical and Biophysical Research Communications</i> , 1996, 223, 320-323.	2.1	15
69	Molecular heterogeneity of oligodendrocytes in chicken white matter. , 1999, 27, 15-21.		15
70	The human serum protein C4b-binding protein inhibits pancreatic IAPP-induced inflammasome activation. <i>Diabetologia</i> , 2017, 60, 1522-1533.	6.3	15
71	Lipid membranes accelerate amyloid formation in the mouse model of AA amyloidosis. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2019, 26, 34-44.	3.0	14
72	Stability and fibril formation properties of human and fish transthyretin, and of the <i>Escherichia coli</i> transthyretin-related protein. <i>FEBS Journal</i> , 2009, 276, 1999-2011.	4.7	13

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73	The Amyloid Forming Peptides Islet Amyloid Polypeptide and Amyloid β Interact at the Molecular Level. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11153.	4.1	13
74	C4b-binding Protein Protects β -Cells from Islet Amyloid Polypeptide-induced Cytotoxicity. <i>Journal of Biological Chemistry</i> , 2016, 291, 21644-21655.	3.4	12
75	Effect of islet amyloid polypeptide on somatostatin inhibition of insulin secretion from isolated rat pancreatic islets. <i>Regulatory Peptides</i> , 1997, 72, 61-67.	1.9	11
76	Addition of exogenous sodium palmitate increases the IAPP/insulin mRNA ratio via GPR40 in human Endo- β H1 cells. <i>Upsala Journal of Medical Sciences</i> , 2017, 122, 149-159.	0.9	11
77	Variable expression of tumor necrosis factor β in human malignant melanoma localized by in situ hybridization for mRNA. <i>Cancer Immunology, Immunotherapy</i> , 1997, 44, 335-340.	4.2	10
78	Efficient Amyloid A Clearance in the Absence of Immunoglobulins and Complement Factors. <i>American Journal of Pathology</i> , 2013, 182, 1297-1307.	3.8	10
79	¹¹ C and ¹⁸ F Radiolabeling of Tetra- and Pentathiophenes as PET-Ligands for Amyloid Protein Aggregates. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 368-373.	2.8	10
80	AA amyloid in human food chain is a possible biohazard. <i>Scientific Reports</i> , 2021, 11, 21069.	3.3	10
81	Effects of free fatty acid on polymerization of islet amyloid polypeptide (IAPP) in vitro and on amyloid fibril formation in cultivated isolated islets of transgenic mice overexpressing human IAPP. <i>Molecular Medicine</i> , 2002, 8, 863-8.	4.4	10
82	Endocrine amyloid " a subject of increasing interest for the next century. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2000, 7, 19-22.	3.0	9
83	PTAA and B10: new approaches to amyloid detection in tissue" evaluation of amyloid detection in tissue with a conjugated polyelectrolyte and a fibril-specific antibody fragment. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2011, 18, 47-52.	3.0	9
84	Development of Mouse Monoclonal Antibodies Against Human Amyloid Fibril Proteins for Diagnostic and Research Purposes. <i>Methods in Molecular Biology</i> , 2018, 1779, 401-414.	0.9	8
85	Purification of Amyloid Protein AA Subspecies From Amyloid-Rich Human Tissues. , 2005, 299, 243-254.		7
86	New molecular perspectives in islet hormone biosynthesis. <i>Biochemical Society Transactions</i> , 1993, 21, 139-142.	3.4	7
87	Protofibrillar and Fibrillar Amyloid- β Binding Proteins in Cerebrospinal Fluid. <i>Journal of Alzheimer's Disease</i> , 2018, 66, 1053-1064.	2.6	7
88	Developing chicken oligodendrocytes express the type IV oligodendrocyte marker T4-O in situ, but not in vitro. <i>Neuroscience Letters</i> , 2000, 284, 21-24.	2.1	5
89	Differential lipid profile and hormonal response in type 2 diabetes by exogenous insulin aspart versus the insulin secretagogue repaglinide, at the same glycemic control. <i>Acta Diabetologica</i> , 2009, 46, 35-42.	2.5	4
90	Islet amyloid deposits preferentially in the highly functional and most blood-perfused islets. <i>Endocrine Connections</i> , 2017, 6, 458-468.	1.9	4

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91	Enhanced detection of ATTR amyloid using a nanofibril-based assay. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2021, 28, 158-167.	3.0	4
92	Systemic AA amyloidosis in the red fox (<i>Vulpes vulpes</i>). Protein Science, 2017, 26, 2312-2318.	7.6	3
93	Seed-dependent templating of murine AA amyloidosis. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2017, 24, 140-141.	3.0	2
94	3D analysis of human islet amyloid polypeptide crystalline structures in <i>Drosophila melanogaster</i> . PLoS ONE, 2019, 14, e0223456.	2.5	2
95	Formation of amyloid in encapsulated human pancreatic and human stem cell-generated beta cell implants. American Journal of Transplantation, 2021, 21, 2090-2099.	4.7	2
96	Eighty years of research on islet amyloidosis in Uppsala. Upsala Journal of Medical Sciences, 2015, 120, 1-7.	0.9	0