

Gunnar Brinkmalm

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106
papers

3,840
citations

34
h-index

60
g-index

111
ext. papers

4,831
ext. citations

6.3
avg, IF

5.12
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 106 | Blood phosphorylated tau 181 as a biomarker for Alzheimer's disease: a diagnostic performance and prediction modelling study using data from four prospective cohorts. <i>Lancet Neurology, The</i> , 2020 , 19, 422-433 | 24.1 | 286 |
| 105 | Enrichment of glycopeptides for glycan structure and attachment site identification. <i>Nature Methods</i> , 2009 , 6, 809-11 | 21.6 | 264 |
| 104 | Mass spectrometric characterization of brain amyloid beta isoform signatures in familial and sporadic Alzheimer's disease. <i>Acta Neuropathologica</i> , 2010 , 120, 185-93 | 14.3 | 226 |
| 103 | Cerebrospinal fluid levels of the synaptic protein neurogranin correlates with cognitive decline in prodromal Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2015 , 11, 1180-90 | 1.2 | 201 |
| 102 | Site-specific characterization of threonine, serine, and tyrosine glycosylations of amyloid precursor protein/amyloid beta-peptides in human cerebrospinal fluid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11848-53 | 11.5 | 165 |
| 101 | SNAP-25 is a promising novel cerebrospinal fluid biomarker for synapse degeneration in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2014 , 9, 53 | 19 | 150 |
| 100 | A novel pathway for amyloid precursor protein processing. <i>Neurobiology of Aging</i> , 2011 , 32, 1090-8 | 5.6 | 116 |
| 99 | Characterization of amyloid beta peptides in cerebrospinal fluid by an automated immunoprecipitation procedure followed by mass spectrometry. <i>Journal of Proteome Research</i> , 2007 , 6, 4433-9 | 5.6 | 113 |
| 98 | An Alzheimer's disease-specific beta-amyloid fragment signature in cerebrospinal fluid. <i>Neuroscience Letters</i> , 2006 , 409, 215-9 | 3.3 | 101 |
| 97 | Assignment of saccharide identities through analysis of oxonium ion fragmentation profiles in LC-MS/MS of glycopeptides. <i>Journal of Proteome Research</i> , 2014 , 13, 6024-32 | 5.6 | 100 |
| 96 | Characterization of the postsynaptic protein neurogranin in paired cerebrospinal fluid and plasma samples from Alzheimer's disease patients and healthy controls. <i>Alzheimer's Research and Therapy</i> , 2015 , 7, 40 | 9 | 90 |
| 95 | Plasma p-tau231: a new biomarker for incipient Alzheimer's disease pathology. <i>Acta Neuropathologica</i> , 2021 , 141, 709-724 | 14.3 | 83 |
| 94 | Novel tau fragments in cerebrospinal fluid: relation to tangle pathology and cognitive decline in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2019 , 137, 279-296 | 14.3 | 79 |
| 93 | The pre-synaptic vesicle protein synaptotagmin is a novel biomarker for Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2016 , 8, 41 | 9 | 78 |
| 92 | Identification of novel β -synuclein isoforms in human brain tissue by using an online nanoLC-ESI-FTICR-MS method. <i>Neurochemical Research</i> , 2011 , 36, 2029-42 | 4.6 | 74 |
| 91 | Enzymatic degradation of carboxymethyl cellulose hydrolyzed by the endoglucanases Cel5A, Cel7B, and Cel45A from <i>Humicola insolens</i> and Cel7B, Cel12A and Cel45Acore from <i>Trichoderma reesei</i> . <i>Biopolymers</i> , 2002 , 63, 32-40 | 2.2 | 70 |
| 90 | An online nano-LC-ESI-FTICR-MS method for comprehensive characterization of endogenous fragments from amyloid β and amyloid precursor protein in human and cat cerebrospinal fluid. <i>Journal of Mass Spectrometry</i> , 2012 , 47, 591-603 | 2.2 | 64 |

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|----|--|------|----|
| 89 | Synaptic proteins in CSF as potential novel biomarkers for prognosis in prodromal Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2018 , 10, 5 | 9 | 63 |
| 88 | A Parallel Reaction Monitoring Mass Spectrometric Method for Analysis of Potential CSF Biomarkers for Alzheimer's Disease. <i>Proteomics - Clinical Applications</i> , 2018 , 12, 1700131 | 3.1 | 62 |
| 87 | Characterization of tau in cerebrospinal fluid using mass spectrometry. <i>Journal of Proteome Research</i> , 2008 , 7, 2114-20 | 5.6 | 62 |
| 86 | BACE1 inhibition induces a specific cerebrospinal fluid A β amyloid pattern that identifies drug effects in the central nervous system. <i>PLoS ONE</i> , 2012 , 7, e31084 | 3.7 | 60 |
| 85 | Identification of novel APP/Abeta isoforms in human cerebrospinal fluid. <i>Neurodegenerative Diseases</i> , 2009 , 6, 87-94 | 2.3 | 59 |
| 84 | The amyloid- β degradation pattern in plasma--a possible tool for clinical trials in Alzheimer's disease. <i>Neuroscience Letters</i> , 2014 , 573, 7-12 | 3.3 | 48 |
| 83 | The intact postsynaptic protein neurogranin is reduced in brain tissue from patients with familial and sporadic Alzheimer's disease. <i>Acta Neuropathologica</i> , 2019 , 137, 89-102 | 14.3 | 47 |
| 82 | SILAC zebrafish for quantitative analysis of protein turnover and tissue regeneration. <i>Journal of Proteomics</i> , 2011 , 75, 425-34 | 3.9 | 45 |
| 81 | Mass spectrometric characterization of amyloid- β species in the 7PA2 cell model of Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2013 , 33, 85-93 | 4.3 | 44 |
| 80 | The aqueous phase of Alzheimer's disease brain contains assemblies built from ~4 and ~7 kDa A β species. <i>Alzheimer's and Dementia</i> , 2015 , 11, 1286-305 | 1.2 | 41 |
| 79 | Identification of neurotoxic cross-linked amyloid- β dimers in the Alzheimer's brain. <i>Brain</i> , 2019 , 142, 1441-1457 | 14.7 | 40 |
| 78 | Update on biomarkers for amyloid pathology in Alzheimer's disease. <i>Biomarkers in Medicine</i> , 2018 , 12, 799-812 | 2.3 | 39 |
| 77 | Soluble amyloid precursor protein and β in CSF in Alzheimer's disease. <i>Brain Research</i> , 2013 , 1513, 117-263 | 3.7 | 38 |
| 76 | Formation of fullerenes in MeV ion track plasmas. <i>Chemical Physics Letters</i> , 1992 , 191, 345-350 | 2.5 | 38 |
| 75 | Cerebrospinal fluid biomarkers of A β amyloid metabolism in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2013 , 19, 543-52 | 5 | 37 |
| 74 | Explorative and targeted neuroproteomics in Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 769-78 | 4 | 36 |
| 73 | Amyloid- β metabolism in Niemann-Pick C disease models and patients. <i>Metabolic Brain Disease</i> , 2012 , 27, 573-85 | 3.9 | 35 |
| 72 | Identification of novel N-terminal fragments of amyloid precursor protein in cerebrospinal fluid. <i>Experimental Neurology</i> , 2010 , 223, 351-8 | 5.7 | 33 |

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| 71 | Cerebrospinal fluid tau fragment correlates with tau PET: a candidate biomarker for tangle pathology. <i>Brain</i> , 2020 , 143, 650-660 | 11.2 | 33 |
| 70 | Head-to-head comparison of clinical performance of CSF phospho-tau T181 and T217 biomarkers for Alzheimer's disease diagnosis. <i>Alzheimer's and Dementia</i> , 2021 , 17, 755-767 | 1.2 | 31 |
| 69 | Patient-specific Alzheimer-like pathology in trisomy 21 cerebral organoids reveals BACE2 as a gene dose-sensitive AD suppressor in human brain. <i>Molecular Psychiatry</i> , 2020 , | 15.1 | 30 |
| 68 | Pyroglutamation of amyloid- β -42 (A β -42) followed by A β -40 deposition underlies plaque polymorphism in progressing Alzheimer's disease pathology. <i>Journal of Biological Chemistry</i> , 2019 , 294, 6719-6732 | 5.4 | 30 |
| 67 | Endo-lysosomal proteins and ubiquitin CSF concentrations in Alzheimer's and Parkinson's disease. <i>Alzheimer's Research and Therapy</i> , 2019 , 11, 82 | 9 | 26 |
| 66 | Effects of gamma-secretase inhibition on the amyloid beta isoform pattern in a mouse model of Alzheimer's disease. <i>Neurodegenerative Diseases</i> , 2009 , 6, 258-62 | 2.3 | 25 |
| 65 | Derivatization using dimethylamine for tandem mass spectrometric structure analysis of enzymatically and acidically depolymerized methyl cellulose. <i>Analytical Chemistry</i> , 2005 , 77, 2948-59 | 7.8 | 25 |
| 64 | Sample preparation effects in matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry of partially depolymerised carboxymethyl cellulose. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 1107-15 | 2.2 | 25 |
| 63 | A distinct brain beta amyloid signature in cerebral amyloid angiopathy compared to Alzheimer's disease. <i>Neuroscience Letters</i> , 2019 , 701, 125-131 | 3.3 | 25 |
| 62 | Characterization of chemical substitution of hydroxypropyl cellulose using enzymatic degradation. <i>Biomacromolecules</i> , 2006 , 7, 80-5 | 6.9 | 24 |
| 61 | Enzyme-aided investigation of the substituent distribution in cationic potato amylopectin starch. <i>Analytical Chemistry</i> , 2003 , 75, 6499-508 | 7.8 | 24 |
| 60 | Expanding the cerebrospinal fluid endopeptidome. <i>Proteomics</i> , 2017 , 17, 1600384 | 4.8 | 23 |
| 59 | Proteomics profiling of single organs from individual adult zebrafish. <i>Zebrafish</i> , 2010 , 7, 161-8 | 2 | 23 |
| 58 | Heteromers of amyloid precursor protein in cerebrospinal fluid. <i>Molecular Neurodegeneration</i> , 2015 , 10, 2 | 19 | 22 |
| 57 | Targeting synaptic pathology with a novel affinity mass spectrometry approach. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 2584-92 | 7.6 | 22 |
| 56 | Analytical approaches to improved characterization of substitution in hydroxypropyl cellulose. <i>Analytical Chemistry</i> , 2003 , 75, 6077-83 | 7.8 | 21 |
| 55 | Proteomics/peptidomics tools to find CSF biomarkers for neurodegenerative diseases. <i>Frontiers in Bioscience - Landmark</i> , 2009 , 14, 1793-806 | 2.8 | 20 |
| 54 | Mass Spectrometric Analysis of Cerebrospinal Fluid Ubiquitin in Alzheimer's Disease and Parkinsonian Disorders. <i>Proteomics - Clinical Applications</i> , 2017 , 11, 1700100 | 3.1 | 19 |

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| 53 | Substituent distribution and clouding behavior of hydroxypropyl methyl cellulose analyzed using enzymatic degradation. <i>Biomacromolecules</i> , 2006 , 7, 3474-81 | 6.9 | 19 |
| 52 | New approaches to the analysis of enzymatically hydrolyzed methyl cellulose. Part 2. Comparison of various enzyme preparations. <i>Biomacromolecules</i> , 2006 , 7, 1410-21 | 6.9 | 19 |
| 51 | New approaches to the analysis of enzymatically hydrolyzed methyl cellulose. Part 1. Investigation of the influence of structural parameters on the extent of degradation. <i>Biomacromolecules</i> , 2006 , 7, 1399-409 | 6.9 | 19 |
| 50 | Targeting LAMP2 in human cerebrospinal fluid with a combination of immunopurification and high resolution parallel reaction monitoring mass spectrometry. <i>Clinical Proteomics</i> , 2016 , 13, 4 | 5 | 18 |
| 49 | Alzheimer-associated cerebrospinal fluid fragments of neurogranin are generated by Calpain-1 and prolyl endopeptidase. <i>Molecular Neurodegeneration</i> , 2018 , 13, 47 | 19 | 18 |
| 48 | Proteomic studies of cerebrospinal fluid biomarkers of Alzheimer's disease: an update. <i>Expert Review of Proteomics</i> , 2017 , 14, 1007-1020 | 4.2 | 16 |
| 47 | CSF Presenilin-1 complexes are increased in Alzheimer's disease. <i>Acta Neuropathologica Communications</i> , 2013 , 1, 46 | 7.3 | 16 |
| 46 | Comprehensive analysis of the substituent distribution in hydroxyethyl celluloses by quantitative MALDI-ToF-MS. <i>Macromolecular Bioscience</i> , 2006 , 6, 435-44 | 5.5 | 16 |
| 45 | Sample preparation effects in matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry of partially depolymerised methyl cellulose. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 1116-24 | 2.2 | 14 |
| 44 | Synthetic standard aided quantification and structural characterization of amyloid-beta glycopeptides enriched from cerebrospinal fluid of Alzheimer's disease patients. <i>Scientific Reports</i> , 2019 , 9, 5522 | 4.9 | 12 |
| 43 | Cerebrospinal fluid neurogranin in an inducible mouse model of neurodegeneration: A translatable marker of synaptic degeneration. <i>Neurobiology of Disease</i> , 2020 , 134, 104645 | 7.5 | 12 |
| 42 | Synthesis aided structural determination of amyloid- β (1-15) glycopeptides, new biomarkers for Alzheimer's disease. <i>Chemical Communications</i> , 2014 , 50, 15067-70 | 5.8 | 11 |
| 41 | Fluid-based proteomics targeted on pathophysiological processes and pathologies in neurodegenerative diseases. <i>Journal of Neurochemistry</i> , 2019 , 151, 417-434 | 6 | 10 |
| 40 | Improved chemical analysis of cellulose ethers using dialkylamine derivatization and mass spectrometry. <i>Biomacromolecules</i> , 2005 , 6, 2793-9 | 6.9 | 9 |
| 39 | Dynamics of cerebrospinal fluid levels of matrix metalloproteinases in human traumatic brain injury. <i>Scientific Reports</i> , 2020 , 10, 18075 | 4.9 | 8 |
| 38 | Development of a size exclusion chromatography method for the determination of molar mass for poloxamers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003 , 31, 845-58 | 3.5 | 7 |
| 37 | Improved matrix-assisted laser desorption/ionisation sample preparation of a partially depolymerised cellulose derivative by continuous spray deposition and interfacing with size-exclusion chromatography. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 947-54 | 2.2 | 7 |
| 36 | Plasma ACE2 species are differentially altered in COVID-19 patients. <i>FASEB Journal</i> , 2021 , 35, e21745 | 0.9 | 7 |

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| 35 | Decreased circulating ErbB4 ectodomain fragments as a read-out of impaired signaling function in amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2019 , 124, 428-438 | 7.5 | 7 |
| 34 | Low-dose β -secretase inhibition increases secretion of A β peptides and intracellular oligomeric A β <i>Molecular and Cellular Neurosciences</i> , 2017 , 85, 211-219 | 4.8 | 5 |
| 33 | Characterization of monomeric and soluble aggregated A β in Down's syndrome and Alzheimer's disease brains. <i>Neuroscience Letters</i> , 2021 , 754, 135894 | 3.3 | 5 |
| 32 | Human cerebrospinal fluid 6E10-immunoreactive protein species contain amyloid precursor protein fragments. <i>PLoS ONE</i> , 2019 , 14, e0212815 | 3.7 | 4 |
| 31 | Tauopathy-Associated Tau Fragment Ending at Amino Acid 224 Is Generated by Calpain-2 Cleavage. <i>Journal of Alzheimer's Disease</i> , 2020 , 74, 1143-1156 | 4.3 | 4 |
| 30 | A Mass Spectrometer's Building Blocks 2008 , 15-87 | | 4 |
| 29 | P-tau235: a novel biomarker for staging preclinical Alzheimer's disease. <i>EMBO Molecular Medicine</i> , 2021 , 13, e15098 | 12 | 4 |
| 28 | Brevican and Neurocan Peptides as Potential Cerebrospinal Fluid Biomarkers for Differentiation Between Vascular Dementia and Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021 , 79, 729-741 | 4.3 | 4 |
| 27 | Cerebrospinal fluid brevicin and neurocan fragment patterns in human traumatic brain injury. <i>Clinica Chimica Acta</i> , 2021 , 512, 74-83 | 6.2 | 4 |
| 26 | Cerebrospinal fluid biomarker panel for synaptic dysfunction in Alzheimer's disease. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2021 , 13, e12179 | 5.2 | 4 |
| 25 | Blood phospho-tau in Alzheimer disease: analysis, interpretation, and clinical utility.. <i>Nature Reviews Neurology</i> , 2022 , | 15 | 4 |
| 24 | The presubiculum is preserved from neurodegenerative changes in Alzheimer's disease. <i>Acta Neuropathologica Communications</i> , 2018 , 6, 62 | 7.3 | 3 |
| 23 | The Applicability of Enzymes in Cellulose Ether Analysis. <i>Macromolecular Symposia</i> , 2009 , 280, 36-44 | 0.8 | 3 |
| 22 | Lumbar and ventricular CSF concentrations of extracellular matrix proteins before and after shunt surgery in idiopathic normal pressure hydrocephalus. <i>Fluids and Barriers of the CNS</i> , 2021 , 18, 23 | 7 | 3 |
| 21 | Molecular forms of neurogranin in cerebrospinal fluid. <i>Journal of Neurochemistry</i> , 2021 , 157, 816-833 | 6 | 3 |
| 20 | β -secretase modulators show selectivity for β -secretase-mediated amyloid precursor protein intramembrane processing.. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , | 5.6 | 2 |
| 19 | Sample Preparation for Endopeptidomic Analysis in Human Cerebrospinal Fluid. <i>Journal of Visualized Experiments</i> , 2017 , | 1.6 | 1 |
| 18 | Tandem Mass Spectrometry 2008 , 89-103 | | 1 |

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| 17 | Quantification of the trans-synaptic partners neurexin-neuroigin in CSF of neurodegenerative diseases by parallel reaction monitoring mass spectrometry.. <i>EBioMedicine</i> , 2022 , 75, 103793 | 8.8 | o |
| 16 | Refining the amyloid peptide and oligomer fingerprint ambiguities in Alzheimer's disease: Mass spectrometric molecular characterization in brain, cerebrospinal fluid, blood, and plasma. <i>Journal of Neurochemistry</i> , 2021 , 159, 234-257 | 6 | o |
| 15 | Amyloid pathology and synaptic loss in pathological aging. <i>Journal of Neurochemistry</i> , 2021 , 159, 258-276 | | o |
| 14 | Characterization of monomeric and soluble aggregated A β in Down syndrome and Alzheimer disease brains. <i>Alzheimer's and Dementia</i> , 2020 , 16, e042479 | 1.2 | |
| 13 | [P3084]: N-TERMINAL FRAGMENT OF TAU: ASSAY DEVELOPMENT WITH IN-HOUSE CLEAVAGE-SPECIFIC ANTIBODY 2017 , 13, P964-P964 | | |
| 12 | [P1087]: NOVEL METHOD FOR OLIGOMERIC A β DETECTION REVEALS INTRACELLULAR ACCUMULATION OF A β UPON LOW-DOSE TREATMENT WITH A GAMMA-SECRETASE INHIBITOR 2017 , 13, P314-P314 | | |
| 11 | [P1068]: ANALYSIS OF NEW POTENTIAL CSF BIOMARKERS FOR ALZHEIMER'S DISEASE BY PARALLEL REACTION MONITORING MASS SPECTROMETRY 2017 , 13, P352-P352 | | |
| 10 | [P2058]: IS THE PRESUBICULUM PROTECTED FROM NEURODEGENERATIVE CHANGES? A PATHOLOGICAL AND BIOCHEMICAL INVESTIGATION 2017 , 13, P668-P668 | | |
| 9 | [P2046]: NOVEL CSF FRAGMENTS OF TAU: CANDIDATE BIOMARKERS OF ALZHEIMER'S DISEASE AND TAUOPATHIES 2017 , 13, P706-P707 | | |
| 8 | [P4892]: NOVEL ASSAYS TO MONITOR A β PEPTIDES GENERATED BY THE ASPARAGATE ENDOPEPTIDASE AFTER INHIBITION OF BACE 2017 , 13, P1478 | | |
| 7 | [P4070]: PRESYNAPTIC DEGRADATION IN ALZHEIMER'S DISEASE MEASURED BY NOVEL GAP-43 ELISA IN CSF 2017 , 13, P1513 | | |
| 6 | Definitions and Explanations 2008 , 3-13 | | |
| 5 | Separation Methods 2008 , 105-115 | | |
| 4 | P4-531: CEREBROSPINAL FLUID APOLIPOPROTEIN E ISOFORM CONCENTRATIONS IN RELATION TO A β AMYLOID POSITIVITY 2019 , 15, P1517-P1519 | | |
| 3 | P4-519: MOLECULAR FORMS OF NEUROGRANIN IN CEREBROSPINAL FLUID 2019 , 15, P1513-P1513 | | |
| 2 | P1-217: PROTEOLYTIC PROCESSING OF THE SYNAPTIC ALZHEIMER BIOMARKER NEUROGRANIN BY CALPAIN I AND PROLYL ENDOPEPTIDASE 2018 , 14, P361-P362 | | |
| 1 | Cerebrospinal fluid amyloid precursor protein as a potential biomarker of fatigue in multiple sclerosis: A pilot study.. <i>Multiple Sclerosis and Related Disorders</i> , 2022 , 63, 103846 | 4 | |