

Sigrun Lange

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,348
citations

117625

34
h-index

161849

54
g-index

90
all docs

90
docs citations

90
times ranked

3548
citing authors

#	ARTICLE	IF	CITATIONS
1	Ontogeny of humoral immune parameters in fish. <i>Fish and Shellfish Immunology</i> , 2005, 19, 429-439.	3.6	208
2	Chloramidine/Bisindolylmaleimide-I-Mediated Inhibition of Exosome and Microvesicle Release and Enhanced Efficacy of Cancer Chemotherapy. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1007.	4.1	132
3	A novel role for peptidylarginine deiminases in microvesicle release reveals therapeutic potential of PAD inhibition in sensitizing prostate cancer cells to chemotherapy. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 26192.	12.2	126
4	A filtration-based protocol to isolate human Plasma Membrane-derived Vesicles and exosomes from blood plasma. <i>Journal of Immunological Methods</i> , 2011, 371, 143-151.	1.4	115
5	Cannabidiol (CBD) Is a Novel Inhibitor for Exosome and Microvesicle (EMV) Release in Cancer. <i>Frontiers in Pharmacology</i> , 2018, 9, 889.	3.5	115
6	Protein deiminases: New players in the developmentally regulated loss of neural regenerative ability. <i>Developmental Biology</i> , 2011, 355, 205-214.	2.0	99
7	Humoral immune parameters of cultured Atlantic halibut (<i>Hippoglossus hippoglossus</i> L.). <i>Fish and Shellfish Immunology</i> , 2001, 11, 523-535.	3.6	97
8	The Prediction of miRNAs in SARS-CoV-2 Genomes: hsa-miR Databases Identify 7 Key miRs Linked to Host Responses and Virus Pathogenicity-Related KEGG Pathways Significant for Comorbidities. <i>Viruses</i> , 2020, 12, 614.	3.3	95
9	The physiological variability of channel density in hippocampal CA1 pyramidal cells and interneurons explored using a unified data-driven modeling workflow. <i>PLoS Computational Biology</i> , 2018, 14, e1006423.	3.2	91
10	Inhibition of microvesiculation sensitizes prostate cancer cells to chemotherapy and reduces docetaxel dose required to limit tumor growth in vivo. <i>Scientific Reports</i> , 2015, 5, 13006.	3.3	88
11	Blood/plasma secretome and microvesicles. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 2317-2325.	2.3	87
12	Peptidylarginine deiminases: novel drug targets for prevention of neuronal damage following hypoxic ischemic insult (HI) in neonates. <i>Journal of Neurochemistry</i> , 2014, 130, 555-562.	3.9	84
13	Peptidylarginine Deiminasesâ€™ Roles in Cancer and Neurodegeneration and Possible Avenues for Therapeutic Intervention via Modulation of Exosome and Microvesicle (EMV) Release?. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1196.	4.1	70
14	The ontogeny of complement component C3 in Atlantic cod (<i>Gadus morhua</i> L.)â€™an immunohistochemical study. <i>Fish and Shellfish Immunology</i> , 2004, 16, 359-367.	3.6	69
15	The emerging role of exosome and microvesicle- (EMV-) based cancer therapeutics and immunotherapy. <i>International Journal of Cancer</i> , 2017, 141, 428-436.	5.1	67
16	Cannabidiol Is a Novel Modulator of Bacterial Membrane Vesicles. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 324.	3.9	63
17	Peptidylarginine Deiminases Post-Translationally Deiminate Prohibitin and Modulate Extracellular Vesicle Release and MicroRNAs in Glioblastoma Multiforme. <i>International Journal of Molecular Sciences</i> , 2019, 20, 103.	4.1	63
18	Peptidylarginine Deiminase Inhibitors Reduce Bacterial Membrane Vesicle Release and Sensitize Bacteria to Antibiotic Treatment. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 227.	3.9	61

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19	Microvesicles in Health and Disease. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2012, 60, 107-121.	2.3	59
20	Mesenchymal Stromal Cell Derived Extracellular Vesicles Reduce Hypoxia-Ischaemia Induced Perinatal Brain Injury. <i>Frontiers in Physiology</i> , 2019, 10, 282.	2.8	57
21	Cannabidiol Affects Extracellular Vesicle Release, miR21 and miR126, and Reduces Prohibitin Protein in Glioblastoma Multiforme Cells. <i>Translational Oncology</i> , 2019, 12, 513-522.	3.7	55
22	Human Plasma Membrane-Derived Vesicles Halt Proliferation and Induce Differentiation of THP-1 Acute Monocytic Leukemia Cells. <i>Journal of Immunology</i> , 2010, 185, 5236-5246.	0.8	54
23	The ontogenic development of innate immune parameters of cod (<i>Gadus morhua</i> L.). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2004, 139, 217-224.	1.6	53
24	Human plasma membrane-derived vesicles inhibit the phagocytosis of apoptotic cells – Possible role in SLE. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 278-283.	2.1	51
25	An immunohistochemical study on complement component C3 in juvenile Atlantic halibut (<i>Hippoglossus hippoglossus</i> L.). <i>Developmental and Comparative Immunology</i> , 2004, 28, 593-601.	2.3	47
26	Complement C2 Receptor Inhibitor Trispanning: A Novel Human Complement Inhibitory Receptor. <i>Journal of Immunology</i> , 2005, 174, 356-366.	0.8	46
27	Post-translational protein deimination in cod (<i>Gadus morhua</i> L.) ontogeny novel roles in tissue remodelling and mucosal immune defences?. <i>Developmental and Comparative Immunology</i> , 2018, 87, 157-170.	2.3	44
28	Peptidylarginine Deiminase Isozyme-Specific PAD2, PAD3 and PAD4 Inhibitors Differentially Modulate Extracellular Vesicle Signatures and Cell Invasion in Two Glioblastoma Multiforme Cell Lines. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1495.	4.1	43
29	The ontogenic transcription of complement component C3 and Apolipoprotein A-I tRNA in Atlantic cod (<i>Gadus morhua</i> L.) – a role in development and homeostasis?. <i>Developmental and Comparative Immunology</i> , 2005, 29, 1065-1077.	2.3	39
30	Peptidylarginine Deiminase Inhibition Abolishes the Production of Large Extracellular Vesicles From <i>Giardia intestinalis</i> , Affecting Host-Pathogen Interactions by Hindering Adhesion to Host Cells. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 417.	3.9	38
31	Data-driven integration of hippocampal <i>CA1</i> synaptic physiology <i>in silico</i> . <i>Hippocampus</i> , 2020, 30, 1129-1145.	1.9	38
32	Protection against atypical furunculosis in Atlantic halibut, <i>Hippoglossus hippoglossus</i> (L.); comparison of a commercial furunculosis vaccine and an autogenous vaccine. <i>Journal of Fish Diseases</i> , 2003, 26, 331-338.	1.9	36
33	Isolation and characterization of complement component C3 from Atlantic cod (<i>Gadus morhua</i> L.) and Atlantic halibut (<i>Hippoglossus hippoglossus</i> L.). <i>Fish and Shellfish Immunology</i> , 2004, 16, 227-239.	3.6	36
34	Complement component C3 transcription in Atlantic halibut (<i>Hippoglossus hippoglossus</i> L.) larvae. <i>Fish and Shellfish Immunology</i> , 2006, 20, 285-294.	3.6	36
35	Interplay of host-pathogen microvesicles and their role in infectious disease. <i>Biochemical Society Transactions</i> , 2013, 41, 258-262.	3.4	36
36	Immunostimulation of larvae and juveniles of cod, <i>Gadus morhua</i> L.. <i>Journal of Fish Diseases</i> , 2006, 29, 147-155.	1.9	33

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37	Peptidylarginine deiminase and deiminated proteins are detected throughout early halibut ontogeny - Complement components C3 and C4 are post-translationally deiminated in halibut (<i>Hippoglossus</i>) Tj ETQq1 1 0.784314 rgBT4/Overlook	1.1	14
38	Is Apolipoprotein A-I a regulating protein for the complement system of cod (<i>Gadus morhua</i> L.)?. <i>Fish and Shellfish Immunology</i> , 2004, 16, 265-269.	3.6	32
39	Pentraxins CRP-I and CRP-II are post-translationally deiminated and differ in tissue specificity in cod (<i>Gadus morhua</i> L.) ontogeny. <i>Developmental and Comparative Immunology</i> , 2018, 87, 1-11.	2.3	32
40	Extracellular vesicles from cod (<i>Gadus morhua</i> L.) mucus contain innate immune factors and deiminated protein cargo. <i>Developmental and Comparative Immunology</i> , 2019, 99, 103397.	2.3	30
41	Red cell PMVs, plasma membrane-derived vesicles calling out for standards. <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 465-469.	2.1	29
42	MiR-21 Is Required for the Epithelialâ€Mesenchymal Transition in MDA-MB-231 Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1557.	4.1	29
43	Pulsed extremely low-frequency magnetic fields stimulate microvesicle release from human monocytic leukaemia cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 470-475.	2.1	27
44	Post-Translational Deimination of Immunological and Metabolic Protein Markers in Plasma and Extracellular Vesicles of Naked Mole-Rat (<i>Heterocephalus glaber</i>). <i>International Journal of Molecular Sciences</i> , 2019, 20, 5378.	4.1	27
45	Extracellular vesicles, deiminated protein cargo and microRNAs are novel serum biomarkers for environmental rearing temperature in Atlantic cod (<i>Gadus morhua</i> L.). <i>Aquaculture Reports</i> , 2020, 16, 100245.	1.7	27
46	Putative Roles for Peptidylarginine Deiminases in COVID-19. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4662.	4.1	26
47	Complement component C4-like protein in Atlantic cod (<i>Gadus morhua</i> L.) - Detection in ontogeny and identification of post-translational deimination in serum and extracellular vesicles. <i>Developmental and Comparative Immunology</i> , 2019, 101, 103437.	2.3	25
48	Deiminated proteins in extracellular vesicles and plasma of nurse shark (<i>Ginglymostoma cirratum</i>) - Novel insights into shark immunity. <i>Fish and Shellfish Immunology</i> , 2019, 92, 249-255.	3.6	25
49	Curcumin: Novel Treatment in Neonatal Hypoxic-Ischemic Brain Injury. <i>Frontiers in Physiology</i> , 2019, 10, 1351.	2.8	24
50	Plasma mEV levels in Ghanaian malaria patients with low parasitaemia are higher than those of healthy controls, raising the potential for parasite markers in mEVs as diagnostic targets. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1697124.	12.2	24
51	Changes in progenitor populations and ongoing neurogenesis in the regenerating chick spinal cord. <i>Developmental Biology</i> , 2009, 332, 234-245.	2.0	23
52	Peptidylarginine Deiminases as Drug Targets in Neonatal Hypoxicâ€Ischemic Encephalopathy. <i>Frontiers in Neurology</i> , 2016, 7, 22.	2.4	23
53	Protein Deimination Signatures in Plasma and Plasma-EVs and Protein Deimination in the Brain Vasculature in a Rat Model of Pre-Motor Parkinsonâ€™s Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2743.	4.1	23
54	Spontaneous haemolytic activity of Atlantic halibut (<i>Hippoglossus hippoglossus</i> L.) and sea bass (<i>Dicentrarchus labrax</i>) serum. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003, 136, 99-106.	1.6	22

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55	Deiminated proteins in extracellular vesicles and serum of llama (<i>Lama glama</i>) – Novel insights into camelid immunity. <i>Molecular Immunology</i> , 2020, 117, 37-53.	2.2	22
56	Protein Deimination and Extracellular Vesicle Profiles in Antarctic Seabirds. <i>Biology</i> , 2020, 9, 15.	2.8	20
57	Deiminated proteins and extracellular vesicles - Novel serum biomarkers in whales and orca. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2020, 34, 100676.	1.0	19
58	Post-Translational Protein Deimination Signatures in Serum and Serum-Extracellular Vesicles of <i>Bos taurus</i> Reveal Immune, Anti-Pathogenic, Anti-Viral, Metabolic and Cancer-Related Pathways for Deimination. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2861.	4.1	17
59	Peptidylarginine Deiminase Inhibitor Application, Using Cl-Amidine, PAD2, PAD3 and PAD4 Isozyme-Specific Inhibitors in Pancreatic Cancer Cells, Reveals Roles for PAD2 and PAD3 in Cancer Invasion and Modulation of Extracellular Vesicle Signatures. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1396.	4.1	17
60	Post-translational regulation of Crmp in developing and regenerating chick spinal cord. <i>Developmental Neurobiology</i> , 2010, 70, 456-471.	3.0	16
61	Deimination Protein Profiles in Alligator <i>mississippiensis</i> Reveal Plasma and Extracellular Vesicle-Specific Signatures Relating to Immunity, Metabolic Function, and Gene Regulation. <i>Frontiers in Immunology</i> , 2020, 11, 651.	4.8	16
62	Prostate cancer cells stimulated by calcium-mediated activation of protein kinase C undergo a refractory period before re-releasing calcium-bearing microvesicles. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 511-517.	2.1	15
63	Microvesicles released constitutively from prostate cancer cells differ biochemically and functionally to stimulated microvesicles released through sublytic C5b-9. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 589-595.	2.1	14
64	Extracellular Vesicles and Post-Translational Protein Deimination Signatures in Mollusca – The Blue Mussel (<i>Mytilus edulis</i>), Soft Shell Clam (<i>Mya arenaria</i>), Eastern Oyster (<i>Crassostrea virginica</i>) and Atlantic Jackknife Clam (<i>Ensis leei</i>). <i>Biology</i> , 2020, 9, 416.	2.8	13
65	Extracellular vesicles and post-translational protein deimination signatures in haemolymph of the American lobster (<i>Homarus americanus</i>). <i>Fish and Shellfish Immunology</i> , 2020, 106, 79-102.	3.6	13
66	Deiminated proteins and extracellular vesicles as novel biomarkers in pinnipeds: Grey seal (<i>Halichoerus grypus</i>) and harbour seal (<i>Phoca vitulina</i>). <i>Biochimie</i> , 2020, 171-172, 79-90.	2.6	13
67	A novel ladder-like lectin relates to sites of mucosal immunity in Atlantic halibut (<i>Hippoglossus</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 1	3.6	12
68	Post-translational protein deimination signatures and extracellular vesicles (EVs) in the Atlantic horseshoe crab (<i>Limulus polyphemus</i>). <i>Developmental and Comparative Immunology</i> , 2020, 110, 103714.	2.3	12
69	microRNA-21 Regulates Stemness in Pancreatic Ductal Adenocarcinoma Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1275.	4.1	12
70	Label-free real-time acoustic sensing of microvesicle release from prostate cancer (PC3) cells using a Quartz Crystal Microbalance. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 619-624.	2.1	11
71	Peptidylarginine deiminases and extracellular vesicles: prospective drug targets and biomarkers in central nervous system diseases and repair. <i>Neural Regeneration Research</i> , 2021, 16, 934.	3.0	10
72	Preliminary Investigations Into the Effect of Exercise-Induced Muscle Damage on Systemic Extracellular Vesicle Release in Trained Younger and Older Men. <i>Frontiers in Physiology</i> , 2021, 12, 723931.	2.8	10

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73	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 3. BMC Neuroscience, 2017, 18, .	1.9	7
74	The Proteome and Citrullinome of Hippoglossus hippoglossus Extracellular Vesiclesâ€”Novel Insights into Roles of the Serum Secretome in Immune, Gene Regulatory and Metabolic Pathways. International Journal of Molecular Sciences, 2021, 22, 875.	4.1	7
75	CRIT is expressed on podocytes in normal human kidney and upregulated in membranous nephropathy. Kidney International, 2006, 69, 1961-1968.	5.2	6
76	Extracellular Vesicle Signatures and Post-Translational Protein Deimination in Purple Sea Urchin (Strongylocentrotus purpuratus) Coelomic Fluidâ€”Novel Insights into Echinodermata Biology. Biology, 2021, 10, 866.	2.8	6
77	MicroRNAs for Virus Pathogenicity and Host Responses, Identified in SARS-CoV-2 Genomes, May Play Roles in Viral-Host Co-Evolution in Putative Zoonotic Host Species. Viruses, 2021, 13, 117.	3.3	6
78	Post-translational protein deimination signatures in sea lamprey (Petromyzon marinus) plasma and plasma-extracellular vesicles. Developmental and Comparative Immunology, 2021, 125, 104225.	2.3	5
79	Peptidylarginine Deiminase (PAD) and Post-Translational Protein Deiminationâ€”Novel Insights into Alveolata Metabolism, Epigenetic Regulation and Hostâ€”Pathogen Interactions. Biology, 2021, 10, 177.	2.8	4
80	Post-Translational Protein Deimination Signatures in Plasma and Plasma EVs of Reindeer (Rangifer) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.8	4
81	Controlled Delivery of Pan-PAD-Inhibitor Cl-Amidine Using Poly(3-Hydroxybutyrate) Microspheres. International Journal of Molecular Sciences, 2021, 22, 12852.	4.1	4
82	Acute Hypoxia Alters Extracellular Vesicle Signatures and the Brain Citrullinome of Naked Mole-Rats (Heterocephalus glaber). International Journal of Molecular Sciences, 2022, 23, 4683.	4.1	2
83	Protein Deimination in Protein Misfolding Disorders: Modeled in Human Induced Pluripotent Stem Cells (iPSCs). , 2017, , 227-239.		1
84	Editorial: Tissue Remodeling in Health and Disease Caused by Bacteria, Parasites, Fungi, and Viruses. Frontiers in Cellular and Infection Microbiology, 2021, 11, 642311.	3.9	1
85	The Role of Deimination as a Response to Trauma and Hypoxic Injury in the Developing CNS. , 2014, , 281-294.		1
86	The complement regulatory receptor CRIT is expressed in the developing kidney. Molecular Immunology, 2007, 44, 3991.	2.2	0
87	Cover Image, Volume 30, Issue 11. Hippocampus, 2020, 30, C1.	1.9	0
88	Treatment of Prostate Cancer Using Deimination Antagonists and Microvesicle Technology. , 2017, , 413-425.		0