Sigrun Lange

List of Publications by Year in Descending Order

84 papers	2,317 citations	30 h-index	44 g-index
90 ext. papers	2,936 ext. citations	4.7 avg, IF	5.42 L-index

#	Paper	IF	Citations
84	microRNA-21 Regulates Stemness in Pancreatic Ductal Adenocarcinoma Cells.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	4
83	Post-Translational Protein Deimination Signatures in Plasma and Plasma EVs of Reindeer (). *Biology*, **2021**, 10,	4.9	3
82	The Proteome and Citrullinome of Extracellular Vesicles-Novel Insights into Roles of the Serum Secretome in Immune, Gene Regulatory and Metabolic Pathways. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
81	Peptidylarginine deiminases and extracellular vesicles: prospective drug targets and biomarkers in central nervous system diseases and repair. *Neural Regeneration Research*, **2021**, 16, 934-938	4.5	2
80	Peptidylarginine Deiminase (PAD) and Post-Translational Protein Deimination-Novel Insights into Alveolata Metabolism, Epigenetic Regulation and Host-Pathogen Interactions. *Biology*, **2021**, 10,	4.9	4
79	MiR-21 Is Required for the Epithelial-Mesenchymal Transition in MDA-MB-231 Breast Cancer Cells. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	7
78	Preliminary Investigations Into the Effect of Exercise-Induced Muscle Damage on Systemic Extracellular Vesicle Release in Trained Younger and Older Men. *Frontiers in Physiology*, **2021**, 12, 723931	4.6	1
77	Extracellular Vesicle Signatures and Post-Translational Protein Deimination in Purple Sea Urchin () Coelomic Fluid-Novel Insights into Echinodermata Biology. *Biology*, **2021**, 10,	4.9	3
76	Post-translational protein deimination signatures in sea lamprey (Petromyzon marinus) plasma and plasma-extracellular vesicles. *Developmental and Comparative Immunology*, **2021**, 125, 104225	3.2	2
75	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,	6.2	4
74	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. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
73	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. *Viruses*, **2020**, 12,	6.2	55
72	Deiminated proteins and extracellular vesicles - Novel serum biomarkers in whales and orca. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2020**, 34, 100676	2	14
71	Data-driven integration of hippocampal CA1 synaptic physiology in silico. *Hippocampus*, **2020**, 30, 1129-1145	3.5	10
70	Putative Roles for Peptidylarginine Deiminases in COVID-19. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	18
69	Deiminated proteins and extracellular vesicles as novel biomarkers in pinnipeds: Grey seal (Halichoerus gryptus) and harbour seal (Phoca vitulina). *Biochimie*, **2020**, 171-172, 79-90	4.6	12
68	Peptidylarginine Deiminase Isozyme-Specific PAD2, PAD3 and PAD4 Inhibitors Differentially Modulate Extracellular Vesicle Signatures and Cell Invasion in Two Glioblastoma Multiforme Cell Lines. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	21

67	Plasma mEV levels in Ghanain malaria patients with low parasitaemia are higher than those of healthy controls, raising the potential for parasite markers in mEVs as diagnostic targets. *Journal of Extracellular Vesicles*, **2020**, 9, 1697124	16.4	15
66	Protein Deimination and Extracellular Vesicle Profiles in Antarctic Seabirds. *Biology*, **2020**, 9,	4.9	15
65	Deimination Protein Profiles in Reveal Plasma and Extracellular Vesicle-Specific Signatures Relating to Immunity, Metabolic Function, and Gene Regulation. *Frontiers in Immunology*, **2020**, 11, 651	8.4	12
64	Post-Translational Protein Deimination Signatures in Serum and Serum-Extracellular Vesicles of Reveal Immune, Anti-Pathogenic, Anti-Viral, Metabolic and Cancer-Related Pathways for Deimination. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	9
63	Post-translational protein deimination signatures and extracellular vesicles (EVs) in the Atlantic horseshoe crab (Limulus polyphemus). *Developmental and Comparative Immunology*, **2020**, 110, 103714	3.2	12
62	Extracellular vesicles, deiminated protein cargo and microRNAs are novel serum biomarkers for environmental rearing temperature in Atlantic cod (Gadus morhua L.). *Aquaculture Reports*, **2020**, 16, 100245	2.3	18
61	Deiminated proteins in extracellular vesicles and serum of llama (Lama glama)-Novel insights into camelid immunity. *Molecular Immunology*, **2020**, 117, 37-53	4.3	15
60	Peptidylarginine Deiminase Inhibition Abolishes the Production of Large Extracellular Vesicles From , Affecting Host-Pathogen Interactions by Hindering Adhesion to Host Cells. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 417	5.9	17
59	Extracellular Vesicles and Post-Translational Protein Deimination Signatures in Mollusca-The Blue Mussel (), Soft Shell Clam (), Eastern Oyster () and Atlantic Jacknife Clam (). *Biology*, **2020**, 9,	4.9	10
58	Extracellular vesicles and post-translational protein deimination signatures in haemolymph of the American lobster (Homarus americanus). *Fish and Shellfish Immunology*, **2020**, 106, 79-102	4.3	10
57	Protein Deimination Signatures in Plasma and Plasma-EVs and Protein Deimination in the Brain Vasculature in a Rat Model of Pre-Motor Parkinson's Disease. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	11
56	Cannabidiol Is a Novel Modulator of Bacterial Membrane Vesicles. *Frontiers in Cellular and Infection Microbiology*, **2019**, 9, 324	5.9	27
55	Extracellular vesicles from cod (Gadus morhua L.) mucus contain innate immune factors and deiminated protein cargo. *Developmental and Comparative Immunology*, **2019**, 99, 103397	3.2	23
54	Deiminated proteins in extracellular vesicles and plasma of nurse shark (Ginglymostoma cirratum) - Novel insights into shark immunity. *Fish and Shellfish Immunology*, **2019**, 92, 249-255	4.3	21
53	Mesenchymal Stromal Cell Derived Extracellular Vesicles Reduce Hypoxia-Ischaemia Induced Perinatal Brain Injury. *Frontiers in Physiology*, **2019**, 10, 282	4.6	32
52	Complement component C4-like protein in Atlantic cod (Gadus morhua L.) - Detection in ontogeny and identification of post-translational deimination in serum and extracellular vesicles. *Developmental and Comparative Immunology*, **2019**, 101, 103437	3.2	18
51	Peptidylarginine Deiminase Inhibitors Reduce Bacterial Membrane Vesicle Release and Sensitize Bacteria to Antibiotic Treatment. *Frontiers in Cellular and Infection Microbiology*, **2019**, 9, 227	5.9	38
50	Post-Translational Deimination of Immunological and Metabolic Protein Markers in Plasma and Extracellular Vesicles of Naked Mole-Rat (). *International Journal of Molecular Sciences*, **2019**, 20,	6.3	21

49	Curcumin: Novel Treatment in Neonatal Hypoxic-Ischemic Brain Injury. *Frontiers in Physiology*, **2019**, 10, 1351	4.6	17
48	A novel ladder-like lectin relates to sites of mucosal immunity in Atlantic halibut (Hippoglossus hippoglossus L.). *Fish and Shellfish Immunology*, **2019**, 87, 9-12	4.3	7
47	Cannabidiol Affects Extracellular Vesicle Release, miR21 and miR126, and Reduces Prohibitin Protein in Glioblastoma Multiforme Cells. *Translational Oncology*, **2019**, 12, 513-522	4.9	27
46	Peptidylarginine deiminase and deiminated proteins are detected throughout early halibut ontogeny - Complement components C3 and C4 are post-translationally deiminated in halibut (Hippoglossus hippoglossus L.). *Developmental and Comparative Immunology*, **2019**, 92, 1-19	3.2	25
45	Cannabidiol (CBD) Is a Novel Inhibitor for Exosome and Microvesicle (EMV) Release in Cancer. *Frontiers in Pharmacology*, **2018**, 9, 889	5.6	60
44	Post-translational protein deimination in cod (Gadus morhua L.) ontogeny novel roles in tissue remodelling and mucosal immune defences?. *Developmental and Comparative Immunology*, **2018**, 87, 157-170	3.2	28
43	Peptidylarginine Deiminases Post-Translationally Deiminate Prohibitin and Modulate Extracellular Vesicle Release and MicroRNAs in Glioblastoma Multiforme. *International Journal of Molecular Sciences*, **2018**, 20,	6.3	40
42	The physiological variability of channel density in hippocampal CA1 pyramidal cells and interneurons explored using a unified data-driven modeling workflow. *PLoS Computational Biology*, **2018**, 14, e1006423	5	43
41	Pentraxins CRP-I and CRP-II are post-translationally deiminated and differ in tissue specificity in cod (Gadus morhua L.) ontogeny. *Developmental and Comparative Immunology*, **2018**, 87, 1-11	3.2	25
40	The emerging role of exosome and microvesicle- (EMV-) based cancer therapeutics and immunotherapy. *International Journal of Cancer*, **2017**, 141, 428-436	7.5	52
39	Protein Deimination in Protein Misfolding Disorders: Modeled in Human Induced Pluripotent Stem Cells (iPSCs) **2017**, 227-239		1
38	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 3. *BMC Neuroscience*, **2017**, 18,	3.2	2
37	Chloramidine/Bisindolylmaleimide-I-Mediated Inhibition of Exosome and Microvesicle Release and Enhanced Efficacy of Cancer Chemotherapy. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	84
36	Peptidylarginine Deiminases-Roles in Cancer and Neurodegeneration and Possible Avenues for Therapeutic Intervention via Modulation of Exosome and Microvesicle (EMV) Release?. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	44
35	Treatment of Prostate Cancer Using Deimination Antagonists and Microvesicle Technology **2017**, 413-425		
34	Peptidylarginine Deiminases as Drug Targets in Neonatal Hypoxic-Ischemic Encephalopathy. *Frontiers in Neurology*, **2016**, 7, 22	4.1	15
33	Prostate cancer cells stimulated by calcium-mediated activation of protein kinase C undergo a refractory period before re-releasing calcium-bearing microvesicles. *Biochemical and Biophysical Research Communications*, **2015**, 460, 511-7	3.4	11
32	Microvesicles released constitutively from prostate cancer cells differ biochemically and functionally to stimulated microvesicles released through sublytic C5b-9. *Biochemical and Biophysical Research Communications*, **2015**, 460, 589-95	3.4	12

31	A novel role for peptidylarginine deiminases in microvesicle release reveals therapeutic potential of PAD inhibition in sensitizing prostate cancer cells to chemotherapy. *Journal of Extracellular Vesicles*, **2015**, 4, 26192	16.4	76
30	Inhibition of microvesiculation sensitizes prostate cancer cells to chemotherapy and reduces docetaxel dose required to limit tumor growth in vivo. *Scientific Reports*, **2015**, 5, 13006	4.9	56
29	Label-free real-time acoustic sensing of microvesicle release from prostate cancer (PC3) cells using a Quartz Crystal Microbalance. *Biochemical and Biophysical Research Communications*, **2014**, 453, 619-24	3.4	9
28	Peptidylarginine deiminases: novel drug targets for prevention of neuronal damage following hypoxic ischemic insult (HI) in neonates. *Journal of Neurochemistry*, **2014**, 130, 555-62	6	62
27	The Role of Deimination as a Response to Trauma and Hypoxic Injury in the Developing CNS **2014**, 281-294		1
26	Interplay of host-pathogen microvesicles and their role in infectious disease. *Biochemical Society Transactions*, **2013**, 41, 258-62	5.1	31
25	Blood/plasma secretome and microvesicles. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2013**, 1834, 2317-25	4	71
24	Pulsed extremely low-frequency magnetic fields stimulate microvesicle release from human monocytic leukaemia cells. *Biochemical and Biophysical Research Communications*, **2013**, 430, 470-5	3.4	22
23	Microvesicles in health and disease. *Archivum Immunologiae Et Therapiae Experimentalis*, **2012**, 60, 107-21	4	49
22	Protein deiminases: new players in the developmentally regulated loss of neural regenerative ability. *Developmental Biology*, **2011**, 355, 205-14	3.1	82
21	A filtration-based protocol to isolate human plasma membrane-derived vesicles and exosomes from blood plasma. *Journal of Immunological Methods*, **2011**, 371, 143-51	2.5	94
20	Human plasma membrane-derived vesicles halt proliferation and induce differentiation of THP-1 acute monocytic leukemia cells. *Journal of Immunology*, **2010**, 185, 5236-46	5.3	46
19	Human plasma membrane-derived vesicles inhibit the phagocytosis of apoptotic cells--possible role in SLE. *Biochemical and Biophysical Research Communications*, **2010**, 398, 278-83	3.4	40
18	Red cell PMVs, plasma membrane-derived vesicles calling out for standards. *Biochemical and Biophysical Research Communications*, **2010**, 399, 465-9	3.4	26
17	Post-translational regulation of Crmp in developing and regenerating chick spinal cord. *Developmental Neurobiology*, **2010**, 70, 456-71	3.2	15
16	Changes in progenitor populations and ongoing neurogenesis in the regenerating chick spinal cord. *Developmental Biology*, **2009**, 332, 234-45	3.1	20
15	Complement component C3 transcription in Atlantic halibut (Hippoglossus hippoglossus L.) larvae. *Fish and Shellfish Immunology*, **2006**, 20, 285-94	4.3	32
14	Immunostimulation of larvae and juveniles of cod, Gadus morhua L. *Journal of Fish Diseases*, **2006**, 29, 147-55	2.6	28

13	CRIT is expressed on podocytes in normal human kidney and upregulated in membranous nephropathy. *Kidney International*, **2006**, 69, 1961-8	9.9	5
12	Ontogeny of humoral immune parameters in fish. *Fish and Shellfish Immunology*, **2005**, 19, 429-39	4.3	161
11	The ontogenic transcription of complement component C3 and Apolipoprotein A-I tRNA in Atlantic cod (Gadus morhua L.)--a role in development and homeostasis?. *Developmental and Comparative Immunology*, **2005**, 29, 1065-77	3.2	38
10	Complement C2 receptor inhibitor trispanning: a novel human complement inhibitory receptor. *Journal of Immunology*, **2005**, 174, 356-66	5.3	39
9	The ontogenic development of innate immune parameters of cod (Gadus morhua L.). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2004**, 139, 217-24	2.3	45
8	An immunohistochemical study on complement component C3 in juvenile Atlantic halibut (Hippoglossus hippoglossus L.). *Developmental and Comparative Immunology*, **2004**, 28, 593-601	3.2	44
7	The ontogeny of complement component C3 in Atlantic cod (Gadus morhua L.)--an immunohistochemical study. *Fish and Shellfish Immunology*, **2004**, 16, 359-67	4.3	44
6	Is Apolipoprotein A-I a regulating protein for the complement system of cod (Gadus morhua L.)?. *Fish and Shellfish Immunology*, **2004**, 16, 265-9	4.3	30
5	Isolation and characterization of complement component C3 from Atlantic cod (Gadus morhua L.) and Atlantic halibut (Hippoglossus hippoglossus L.). *Fish and Shellfish Immunology*, **2004**, 16, 227-39	4.3	32
4	Protection against atypical furunculosis in Atlantic halibut, Hippoglossus hippoglossus (L.); comparison of a commercial furunculosis vaccine and an autogenous vaccine. *Journal of Fish Diseases*, **2003**, 26, 331-8	2.6	32
3	Spontaneous haemolytic activity of Atlantic halibut (Hippoglossus hippoglossus L.) and sea bass (Dicentrarchus labrax) serum. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2003**, 136, 99-106	2.3	17
2	Humoral immune parameters of cultured Atlantic halibut (Hippoglossus hippoglossus L.). *Fish and Shellfish Immunology*, **2001**, 11, 523-35	4.3	75
1	Peptidylarginine Deiminase inhibition abolishes the production of large extracellular vesicles fromGiardia intestinalis, affecting host-pathogen interactions by hindering adhesion to host cells		9