

# Sigrun Lange

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5838168/sigrun-lange-publications-by-citations.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Ontogeny of humoral immune parameters in fish. <i>Fish and Shellfish Immunology</i> , <b>2005</b> , 19, 429-39	4.3	161
83	A filtration-based protocol to isolate human plasma membrane-derived vesicles and exosomes from blood plasma. <i>Journal of Immunological Methods</i> , <b>2011</b> , 371, 143-51	2.5	94
82	Chloramidine/Bisindolylmaleimide-I-Mediated Inhibition of Exosome and Microvesicle Release and Enhanced Efficacy of Cancer Chemotherapy. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	84
81	Protein deiminases: new players in the developmentally regulated loss of neural regenerative ability. <i>Developmental Biology</i> , <b>2011</b> , 355, 205-14	3.1	82
80	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> , <b>2015</b> , 4, 26192	16.4	76
79	Humoral immune parameters of cultured Atlantic halibut ( <i>Hippoglossus hippoglossus</i> L.). <i>Fish and Shellfish Immunology</i> , <b>2001</b> , 11, 523-35	4.3	75
78	Blood/plasma secretome and microvesicles. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2013</b> , 1834, 2317-25	4	71
77	Peptidylarginine deiminases: novel drug targets for prevention of neuronal damage following hypoxic ischemic insult (HI) in neonates. <i>Journal of Neurochemistry</i> , <b>2014</b> , 130, 555-62	6	62
76	Cannabidiol (CBD) Is a Novel Inhibitor for Exosome and Microvesicle (EMV) Release in Cancer. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 889	5.6	60
75	Inhibition of microvesiculation sensitizes prostate cancer cells to chemotherapy and reduces docetaxel dose required to limit tumor growth in vivo. <i>Scientific Reports</i> , <b>2015</b> , 5, 13006	4.9	56
74	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> , <b>2020</b> , 12,	6.2	55
73	The emerging role of exosome and microvesicle- (EMV-) based cancer therapeutics and immunotherapy. <i>International Journal of Cancer</i> , <b>2017</b> , 141, 428-436	7.5	52
72	Microvesicles in health and disease. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , <b>2012</b> , 60, 107-214		49
71	Human plasma membrane-derived vesicles halt proliferation and induce differentiation of THP-1 acute monocytic leukemia cells. <i>Journal of Immunology</i> , <b>2010</b> , 185, 5236-46	5.3	46
70	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> , <b>2004</b> , 139, 217-24	2.3	45
69	Peptidylarginine Deiminases-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> , <b>2017</b> , 18,	6.3	44
68	An immunohistochemical study on complement component C3 in juvenile Atlantic halibut ( <i>Hippoglossus hippoglossus</i> L.). <i>Developmental and Comparative Immunology</i> , <b>2004</b> , 28, 593-601	3.2	44

67	The ontogeny of complement component C3 in Atlantic cod ( <i>Gadus morhua</i> L.)--an immunohistochemical study. <i>Fish and Shellfish Immunology</i> , <b>2004</b> , 16, 359-67	4.3	44
66	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> , <b>2018</b> , 14, e1006423	5	43
65	Human plasma membrane-derived vesicles inhibit the phagocytosis of apoptotic cells--possible role in SLE. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 398, 278-83	3.4	40
64	Peptidylarginine Deiminases Post-Translationally Deiminate Prohibitin and Modulate Extracellular Vesicle Release and MicroRNAs in Glioblastoma Multiforme. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 20,	6.3	40
63	Complement C2 receptor inhibitor trispanning: a novel human complement inhibitory receptor. <i>Journal of Immunology</i> , <b>2005</b> , 174, 356-66	5.3	39
62	Peptidylarginine Deiminase Inhibitors Reduce Bacterial Membrane Vesicle Release and Sensitize Bacteria to Antibiotic Treatment. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 227	5.9	38
61	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> , <b>2005</b> , 29, 1065-77	3.2	38
60	Mesenchymal Stromal Cell Derived Extracellular Vesicles Reduce Hypoxia-Ischaemia Induced Perinatal Brain Injury. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 282	4.6	32
59	Complement component C3 transcription in Atlantic halibut ( <i>Hippoglossus hippoglossus</i> L.) larvae. <i>Fish and Shellfish Immunology</i> , <b>2006</b> , 20, 285-94	4.3	32
58	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> , <b>2003</b> , 26, 331-8	2.6	32
57	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> , <b>2004</b> , 16, 227-39	4.3	32
56	Interplay of host-pathogen microvesicles and their role in infectious disease. <i>Biochemical Society Transactions</i> , <b>2013</b> , 41, 258-62	5.1	31
55	Is Apolipoprotein A-I a regulating protein for the complement system of cod ( <i>Gadus morhua</i> L.)?. <i>Fish and Shellfish Immunology</i> , <b>2004</b> , 16, 265-9	4.3	30
54	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> , <b>2018</b> , 87, 157-170	3.2	28
53	Immunostimulation of larvae and juveniles of cod, <i>Gadus morhua</i> L. <i>Journal of Fish Diseases</i> , <b>2006</b> , 29, 147-55	2.6	28
52	Cannabidiol Is a Novel Modulator of Bacterial Membrane Vesicles. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 324	5.9	27
51	Cannabidiol Affects Extracellular Vesicle Release, miR21 and miR126, and Reduces Prohibitin Protein in Glioblastoma Multiforme Cells. <i>Translational Oncology</i> , <b>2019</b> , 12, 513-522	4.9	27
50	Red cell PMVs, plasma membrane-derived vesicles calling out for standards. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 399, 465-9	3.4	26

49	Peptidylarginine deiminase and deiminated proteins are detected throughout early halibut ontogeny - Complement components C3 and C4 are post-translationally deiminated in halibut ( <i>Hippoglossus hippoglossus</i> L.). <i>Developmental and Comparative Immunology</i> , <b>2019</b> , 92, 1-19	3.2	25
48	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> , <b>2018</b> , 87, 1-11	3.2	25
47	Extracellular vesicles from cod ( <i>Gadus morhua</i> L.) mucus contain innate immune factors and deiminated protein cargo. <i>Developmental and Comparative Immunology</i> , <b>2019</b> , 99, 103397	3.2	23
46	Pulsed extremely low-frequency magnetic fields stimulate microvesicle release from human monocytic leukaemia cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 430, 470-5	3.4	22
45	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> , <b>2019</b> , 92, 249-255	4.3	21
44	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> , <b>2020</b> , 21,	6.3	21
43	Post-Translational Deimination of Immunological and Metabolic Protein Markers in Plasma and Extracellular Vesicles of Naked Mole-Rat (). <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	21
42	Changes in progenitor populations and ongoing neurogenesis in the regenerating chick spinal cord. <i>Developmental Biology</i> , <b>2009</b> , 332, 234-45	3.1	20
41	Putative Roles for Peptidylarginine Deiminases in COVID-19. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	18
40	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> , <b>2019</b> , 101, 103437	3.2	18
39	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> , <b>2020</b> , 16, 100245	2.3	18
38	Curcumin: Novel Treatment in Neonatal Hypoxic-Ischemic Brain Injury. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 1351	4.6	17
37	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> , <b>2003</b> , 136, 99-106	2.3	17
36	Peptidylarginine Deiminase Inhibition Abolishes the Production of Large Extracellular Vesicles From , Affecting Host-Pathogen Interactions by Hindering Adhesion to Host Cells. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2020</b> , 10, 417	5.9	17
35	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> , <b>2020</b> , 9, 1697124	16.4	15
34	Protein Deimination and Extracellular Vesicle Profiles in Antarctic Seabirds. <i>Biology</i> , <b>2020</b> , 9,	4.9	15
33	Post-translational regulation of Crmp in developing and regenerating chick spinal cord. <i>Developmental Neurobiology</i> , <b>2010</b> , 70, 456-71	3.2	15
32	Deiminated proteins in extracellular vesicles and serum of llama ( <i>Lama glama</i> )-Novel insights into camelid immunity. <i>Molecular Immunology</i> , <b>2020</b> , 117, 37-53	4.3	15

31	Peptidylarginine Deiminases as Drug Targets in Neonatal Hypoxic-Ischemic Encephalopathy. <i>Frontiers in Neurology</i> , <b>2016</b> , 7, 22	4.1	15
30	Deiminated proteins and extracellular vesicles - Novel serum biomarkers in whales and orca. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , <b>2020</b> , 34, 100676	2	14
29	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> , <b>2015</b> , 460, 589-95	3.4	12
28	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> , <b>2020</b> , 171-172, 79-90	4.6	12
27	Deimination Protein Profiles in Reveal Plasma and Extracellular Vesicle-Specific Signatures Relating to Immunity, Metabolic Function, and Gene Regulation. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 651	8.4	12
26	Post-translational protein deimination signatures and extracellular vesicles (EVs) in the Atlantic horseshoe crab ( <i>Limulus polyphemus</i> ). <i>Developmental and Comparative Immunology</i> , <b>2020</b> , 110, 103714	3.2	12
25	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> , <b>2015</b> , 460, 511-7	3.4	11
24	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. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	11
23	Data-driven integration of hippocampal CA1 synaptic physiology in silico. <i>Hippocampus</i> , <b>2020</b> , 30, 1129-1145	13.45	10
22	Extracellular Vesicles and Post-Translational Protein Deimination Signatures in Mollusca-The Blue Mussel ( <i>Mytilus</i> ), Soft Shell Clam ( <i>Mya</i> ), Eastern Oyster ( <i>Crassostrea virginica</i> ) and Atlantic Jackknife Clam ( <i>Saxidomus nutalli</i> ). <i>Biology</i> , <b>2020</b> , 9,	4.9	10
21	Extracellular vesicles and post-translational protein deimination signatures in haemolymph of the American lobster ( <i>Homarus americanus</i> ). <i>Fish and Shellfish Immunology</i> , <b>2020</b> , 106, 79-102	4.3	10
20	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. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	9
19	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> , <b>2014</b> , 453, 619-24	3.4	9
18	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		9
17	A novel ladder-like lectin relates to sites of mucosal immunity in Atlantic halibut ( <i>Hippoglossus hippoglossus</i> L.). <i>Fish and Shellfish Immunology</i> , <b>2019</b> , 87, 9-12	4.3	7
16	MiR-21 Is Required for the Epithelial-Mesenchymal Transition in MDA-MB-231 Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	7
15	CRIT is expressed on podocytes in normal human kidney and upregulated in membranous nephropathy. <i>Kidney International</i> , <b>2006</b> , 69, 1961-8	9.9	5
14	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> , <b>2021</b> , 22,	6.3	5

13	microRNA-21 Regulates Stemness in Pancreatic Ductal Adenocarcinoma Cells.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	4
12	Peptidylarginine Deiminase (PAD) and Post-Translational Protein Deimination-Novel Insights into Alveolata Metabolism, Epigenetic Regulation and Host-Pathogen Interactions. <i>Biology</i> , <b>2021</b> , 10,	4.9	4
11	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. <i>Viruses</i> , <b>2021</b> , 13,	6.2	4
10	Post-Translational Protein Deimination Signatures in Plasma and Plasma EVs of Reindeer (). <i>Biology</i> , <b>2021</b> , 10,	4.9	3
9	The Proteome and Citrullinome of Extracellular Vesicles-Novel Insights into Roles of the Serum Secretome in Immune, Gene Regulatory and Metabolic Pathways. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
8	Extracellular Vesicle Signatures and Post-Translational Protein Deimination in Purple Sea Urchin () Coelomic Fluid-Novel Insights into Echinodermata Biology. <i>Biology</i> , <b>2021</b> , 10,	4.9	3
7	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 3. <i>BMC Neuroscience</i> , <b>2017</b> , 18,	3.2	2
6	Peptidylarginine deiminases and extracellular vesicles: prospective drug targets and biomarkers in central nervous system diseases and repair. <i>Neural Regeneration Research</i> , <b>2021</b> , 16, 934-938	4.5	2
5	Post-translational protein deimination signatures in sea lamprey ( <i>Petromyzon marinus</i> ) plasma and plasma-extracellular vesicles. <i>Developmental and Comparative Immunology</i> , <b>2021</b> , 125, 104225	3.2	2
4	Protein Deimination in Protein Misfolding Disorders: Modeled in Human Induced Pluripotent Stem Cells (iPSCs) <b>2017</b> , 227-239		1
3	The Role of Deimination as a Response to Trauma and Hypoxic Injury in the Developing CNS <b>2014</b> , 281-294		1
2	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> , <b>2021</b> , 12, 723934 <sup>4.6</sup>		1
1	Treatment of Prostate Cancer Using Deimination Antagonists and Microvesicle Technology <b>2017</b> , 413-425		