Trond Ulven

List of Publications by Citations

121 papers	4,764 citations	46 h-index	64 g-index
141 ext. papers	5,414 ext. citations	6.2 avg, IF	5.69 L-index

#	Paper	IF	Citations
121	Chemical synthesis and biological evaluation of cis- and trans-12,13-cyclopropyl and 12,13-cyclobutyl epothilones and related pyridine side chain analogues. *Journal of the American Chemical Society*, **2001**, 123, 9313-23	16.4	188
120	Emerging roles of DP and CRTH2 in allergic inflammation. *Trends in Molecular Medicine*, **2006**, 12, 148-58	11.5	173
119	Short-chain free fatty acid receptors FFA2/GPR43 and FFA3/GPR41 as new potential therapeutic targets. *Frontiers in Endocrinology*, **2012**, 3, 111	5.7	165
118	The pharmacology of TUG-891, a potent and selective agonist of the free fatty acid receptor 4 (FFA4/GPR120), demonstrates both potential opportunity and possible challenges to therapeutic agonism. *Molecular Pharmacology*, **2013**, 84, 710-25	4.3	142
117	Complex Pharmacology of Free Fatty Acid Receptors. *Chemical Reviews*, **2017**, 117, 67-110	68.1	139
116	Discovery of a potent and selective GPR120 agonist. *Journal of Medicinal Chemistry*, **2012**, 55, 4511-5	8.3	126
115	Discovery of potent and selective agonists for the free fatty acid receptor 1 (FFA(1)/GPR40), a potential target for the treatment of type II diabetes. *Journal of Medicinal Chemistry*, **2008**, 51, 7061-4	8.3	117
114	Gut Dysbiosis during Influenza Contributes to Pulmonary Pneumococcal Superinfection through Altered Short-Chain Fatty Acid Production. *Cell Reports*, **2020**, 30, 2934-2947.e6	10.6	109
113	Antagonism of the prostaglandin D2 receptor CRTH2 attenuates asthma pathology in mouse eosinophilic airway inflammation. *Respiratory Research*, **2007**, 8, 16	7.3	99
112	The oxygen-mediated synthesis of 1,3-butadiynes in continuous flow: using Teflon AF-2400 to effect gas/liquid contact. *ChemSusChem*, **2012**, 5, 274-7	8.3	95
111	Extracellular ionic locks determine variation in constitutive activity and ligand potency between species orthologs of the free fatty acid receptors FFA2 and FFA3. *Journal of Biological Chemistry*, **2012**, 287, 41195-209	5.4	91
110	Identification of indole derivatives exclusively interfering with a G protein-independent signaling pathway of the prostaglandin D2 receptor CRTH2. *Molecular Pharmacology*, **2005**, 68, 393-402	4.3	88
109	Selective orthosteric free fatty acid receptor 2 (FFA2) agonists: identification of the structural and chemical requirements for selective activation of FFA2 versus FFA3. *Journal of Biological Chemistry*, **2011**, 286, 10628-40	5.4	87
108	Defining the molecular basis for the first potent and selective orthosteric agonists of the FFA2 free fatty acid receptor. *Journal of Biological Chemistry*, **2013**, 288, 17296-312	5.4	76
107	Dietary Fatty Acids and Their Potential for Controlling Metabolic Diseases Through Activation of FFA4/GPR120. *Annual Review of Nutrition*, **2015**, 35, 239-63	9.9	71
106	Polyunsaturated fatty acid receptors, GPR40 and GPR120, are expressed in the hypothalamus and control energy homeostasis and inflammation. *Journal of Neuroinflammation*, **2017**, 14, 91	10.1	70
105	Extracellular loop 2 of the free fatty acid receptor 2 mediates allosterism of a phenylacetamide ago-allosteric modulator. *Molecular Pharmacology*, **2011**, 80, 163-73	4.3	70

104	Minor structural modifications convert the dual TP/CRTH2 antagonist ramatroban into a highly selective and potent CRTH2 antagonist. *Journal of Medicinal Chemistry*, **2005**, 48, 897-900	8.3	69
103	A biased ligand for OXE-R uncouples G and G signaling within a heterotrimer. *Nature Chemical Biology*, **2012**, 8, 631-8	11.7	68
102	Activity of dietary fatty acids on FFA1 and FFA4 and characterisation of pinolenic acid as a dual FFA1/FFA4 agonist with potential effect against metabolic diseases. *British Journal of Nutrition*, **2015**, 113, 1677-88	3.6	66
101	Chemically engineering ligand selectivity at the free fatty acid receptor 2 based on pharmacological variation between species orthologs. *FASEB Journal*, **2012**, 26, 4951-65	0.9	64
100	Butyrate ameliorates allergic airway inflammation by limiting eosinophil trafficking and survival. *Journal of Allergy and Clinical Immunology*, **2019**, 144, 764-776	11.5	63
99	Selective copper catalysed aromatic N-arylation in water. *Green Chemistry*, **2013**, 15, 336-340	10	63
98	Treatment of type 2 diabetes by free Fatty Acid receptor agonists. *Frontiers in Endocrinology*, **2014**, 5, 137	5.7	61
97	Non-Acidic Free Fatty Acid Receptor 4 Agonists with Antidiabetic Activity. *Journal of Medicinal Chemistry*, **2016**, 59, 8868-8878	8.3	60
96	The role of the prostaglandin D2 receptor, DP, in eosinophil trafficking. *Journal of Immunology*, **2007**, 179, 4792-9	5.3	60
95	A physicogenetic method to assign ligand-binding relationships between 7TM receptors. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 3707-12	2.9	60
94	Identification of a potent and selective free fatty acid receptor 1 (FFA1/GPR40) agonist with favorable physicochemical and in vitro ADME properties. *Journal of Medicinal Chemistry*, **2011**, 54, 6691-703	8.3	58
93	Reevaluation of fatty acid receptor 1 as a drug target for the stimulation of insulin secretion in humans. *Diabetes*, **2013**, 62, 2106-11	0.9	57
92	Characterizing pharmacological ligands to study the long-chain fatty acid receptors GPR40/FFA1 and GPR120/FFA4. *British Journal of Pharmacology*, **2015**, 172, 3254-65	8.6	54
91	Structure-Activity Study of Dihydrocinnamic Acids and Discovery of the Potent FFA1 (GPR40) Agonist TUG-469. *ACS Medicinal Chemistry Letters*, **2010**, 1, 345-9	4.3	53
90	Oxalyl chloride as a practical carbon monoxide source for carbonylation reactions. *Organic Letters*, **2015**, 17, 2832-5	6.2	52
89	The molecular basis of ligand interaction at free fatty acid receptor 4 (FFA4/GPR120). *Journal of Biological Chemistry*, **2014**, 289, 20345-58	5.4	52
88	A protocol for amide bond formation with electron deficient amines and sterically hindered substrates. *Organic and Biomolecular Chemistry*, **2016**, 14, 430-433	3.9	51
87	Concomitant action of structural elements and receptor phosphorylation determines arrestin-3 interaction with the free fatty acid receptor FFA4. *Journal of Biological Chemistry*, **2014**, 289, 18451-65	5.4	51

86	The C-terminal tail of CRTH2 is a key molecular determinant that constrains Galphai and downstream signaling cascade activation. *Journal of Biological Chemistry*, **2009**, 284, 1324-36	5.4	51
85	Novel chemistry of alpha-tosyloxy ketones: applications to the solution- and solid-phase synthesis of privileged heterocycle and enediyne libraries. *Journal of the American Chemical Society*, **2002**, 124, 5718-28	16.4	51
84	Discovery of TUG-770: A Highly Potent Free Fatty Acid Receptor 1 (FFA1/GPR40) Agonist for Treatment of Type 2 Diabetes. *ACS Medicinal Chemistry Letters*, **2013**, 4, 441-445	4.3	50
83	6-Acylamino-2-aminoquinolines as potent melanin-concentrating hormone 1 receptor antagonists. Identification, structure-activity relationship, and investigation of binding mode. *Journal of Medicinal Chemistry*, **2005**, 48, 5684-97	8.3	50
82	The GPR120 agonist TUG-891 promotes metabolic health by stimulating mitochondrial respiration in brown fat. *EMBO Molecular Medicine*, **2018**, 10,	12	49
81	Distinct Phosphorylation Clusters Determine the Signaling Outcome of Free Fatty Acid Receptor 4/G Protein-Coupled Receptor 120. *Molecular Pharmacology*, **2016**, 89, 505-20	4.3	48
80	Novel CRTH2 antagonists: a review of patents from 2006 to 2009. *Expert Opinion on Therapeutic Patents*, **2010**, 20, 1505-30	6.8	48
79	A novel antagonist of CRTH2 blocks eosinophil release from bone marrow, chemotaxis and respiratory burst. *Allergy: European Journal of Allergy and Clinical Immunology*, **2007**, 62, 1401-9	9.3	48
78	Comprehensive and quantitative profiling of lipid species in human milk, cow milk and a phospholipid-enriched milk formula by GC and MS/MS. *European Journal of Lipid Science and Technology*, **2015**, 117, 751-759	3	47
77	Free fatty acid receptor 1 (FFA1/GPR40) agonists: mesylpropoxy appendage lowers lipophilicity and improves ADME properties. *Journal of Medicinal Chemistry*, **2012**, 55, 6624-8	8.3	47
76	A multistep continuous-flow system for rapid on-demand synthesis of receptor ligands. *Organic Letters*, **2009**, 11, 5134-7	6.2	46
75	Macrocyclic G-quadruplex ligands. *Current Medicinal Chemistry*, **2010**, 17, 3438-48	4.3	45
74	Conjugated linoleic acids mediate insulin release through islet G protein-coupled receptor FFA1/GPR40. *Journal of Biological Chemistry*, **2011**, 286, 11890-4	5.4	45
73	Complex pharmacology of novel allosteric free fatty acid 3 receptor ligands. *Molecular Pharmacology*, **2014**, 86, 200-10	4.3	44
72	Targeting the prostaglandin D2 receptors DP and CRTH2 for treatment of inflammation. *Current Topics in Medicinal Chemistry*, **2006**, 6, 1427-44	3	44
71	On the mechanism of interaction of potent surmountable and insurmountable antagonists with the prostaglandin D2 receptor CRTH2. *Molecular Pharmacology*, **2006**, 69, 1441-53	4.3	43
70	Positive versus negative modulation of different endogenous chemokines for CC-chemokine receptor 1 by small molecule agonists through allosteric versus orthosteric binding. *Journal of Biological Chemistry*, **2008**, 283, 23121-8	5.4	42
69	Discovery of a potent and selective free fatty acid receptor 1 agonist with low lipophilicity and high oral bioavailability. *Journal of Medicinal Chemistry*, **2013**, 56, 982-92	8.3	41

68	4-Acylamino-and 4-ureidobenzamides as melanin-concentrating hormone (MCH) receptor 1 antagonists. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 5075-80	2.9	41
67	Phenanthroline-2,9-bistriazoles as selective G-quadruplex ligands. *European Journal of Medicinal Chemistry*, **2014**, 72, 119-26	6.8	36
66	Novel selective orally active CRTH2 antagonists for allergic inflammation developed from in silico derived hits. *Journal of Medicinal Chemistry*, **2006**, 49, 6638-41	8.3	36
65	Continuous flow nucleophilic aromatic substitution with dimethylamine generated in situ by decomposition of DMF. *Journal of Organic Chemistry*, **2013**, 78, 4190-5	4.2	35
64	Non-equivalence of Key Positively Charged Residues of the Free Fatty Acid 2 Receptor in the Recognition and Function of Agonist Versus Antagonist Ligands. *Journal of Biological Chemistry*, **2016**, 291, 303-17	5.4	35
63	Efficient synthesis of 4,7-diamino substituted 1,10-phenanthroline-2,9-dicarboxamides. *Organic Letters*, **2011**, 13, 3546-8	6.2	33
62	Development and Characterization of a Potent Free Fatty Acid Receptor 1 (FFA1) Fluorescent Tracer. *Journal of Medicinal Chemistry*, **2016**, 59, 4849-58	8.3	33
61	G-protein-coupled receptors for free fatty acids: nutritional and therapeutic targets. *British Journal of Nutrition*, **2014**, 111 Suppl 1, S3-7	3.6	29
60	6-Acylamino-2-amino-4-methylquinolines as potent melanin-concentrating hormone 1 receptor antagonists: structure-activity exploration of eastern and western parts. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 1070-5	2.9	27
59	Development and Characterization of a Fluorescent Tracer for the Free Fatty Acid Receptor 2 (FFA2/GPR43). *Journal of Medicinal Chemistry*, **2017**, 60, 5638-5645	8.3	26
58	Modulation in selectivity and allosteric properties of small-molecule ligands for CC-chemokine receptors. *Journal of Medicinal Chemistry*, **2012**, 55, 8164-77	8.3	26
57	Tetrasubstituted phenanthrolines as highly potent, water-soluble, and selective G-quadruplex ligands. *Chemistry - A European Journal*, **2012**, 18, 10892-902	4.8	26
56	A Molecular Mechanism for Sequential Activation of a G Protein-Coupled Receptor. *Cell Chemical Biology*, **2016**, 23, 392-403	8.2	25
55	The therapeutic potential of allosteric ligands for free fatty acid sensitive GPCRs. *Current Topics in Medicinal Chemistry*, **2013**, 13, 14-25	3	24
54	Probe-Dependent Negative Allosteric Modulators of the Long-Chain Free Fatty Acid Receptor FFA4. *Molecular Pharmacology*, **2017**, 91, 630-641	4.3	23
53	Design, synthesis and evaluation of 4,7-diamino-1,10-phenanthroline G-quadruplex ligands. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 8241-6	3.4	23
52	Synthesis of Benzylidene-Protected Dihydroxyacetone.. *Acta Chemica Scandinavica*, **1996**, 50, 185-187		23
51	The Neutrophil Response Induced by an Agonist for Free Fatty Acid Receptor 2 (GPR43) Is Primed by Tumor Necrosis Factor Alpha and by Receptor Uncoupling from the Cytoskeleton but Attenuated by Tissue Recruitment. *Molecular and Cellular Biology*, **2016**, 36, 2583-95	4.8	22

50	Direct N9-arylation of purines with aryl halides. *Chemical Communications*, **2014**, 50, 4997-9	5.8	21
49	Three classes of ligands each bind to distinct sites on the orphan G protein-coupled receptor GPR84. *Scientific Reports*, **2017**, 7, 17953	4.9	21
48	Synthesis and biological evaluation of 12,13-cyclopropyl and 12,13-cyclobutyl epothilones. *ChemBioChem*, **2001**, 2, 69-75	3.8	21
47	Fatty acid 16:4(n-3) stimulates a GPR120-induced signaling cascade in splenic macrophages to promote chemotherapy resistance. *FASEB Journal*, **2017**, 31, 2195-2209	0.9	20
46	Treatment with TUG891, a free fatty acid receptor 4 agonist, restores adipose tissue metabolic dysfunction following chronic sleep fragmentation in mice. *International Journal of Obesity*, **2016**, 40, 1143-9	5.5	20
45	Multistep continuous-flow synthesis in medicinal chemistry: discovery and preliminary structure-activity relationships of CCR8 ligands. *Chemistry - A European Journal*, **2013**, 19, 9343-50	4.8	20
44	Discovery of a Potent Thiazolidine Free Fatty Acid Receptor 2 Agonist with Favorable Pharmacokinetic Properties. *Journal of Medicinal Chemistry*, **2018**, 61, 9534-9550	8.3	20
43	Controlled generation and use of CO in flow. *Reaction Chemistry and Engineering*, **2016**, 1, 280-287	4.9	19
42	Discovery of a Potent Free Fatty Acid 1 Receptor Agonist with Low Lipophilicity, Low Polar Surface Area, and Robust in Vivo Efficacy. *Journal of Medicinal Chemistry*, **2016**, 59, 2841-6	8.3	17
41	Extracellular disulfide bridges serve different purposes in two homologous chemokine receptors, CCR1 and CCR5. *Molecular Pharmacology*, **2013**, 84, 335-45	4.3	17
40	Selective extraction of G-quadruplex ligands from a rationally designed scaffold-based dynamic combinatorial library. *Chemistry - A European Journal*, **2008**, 14, 9487-90	4.8	15
39	A single extracellular amino acid in Free Fatty Acid Receptor 2 defines antagonist species selectivity and G protein selection bias. *Scientific Reports*, **2017**, 7, 13741	4.9	13
38	A rapid and efficient Sonogashira protocol and improved synthesis of free fatty acid 1 (FFA1) receptor agonists. *Journal of Organic Chemistry*, **2010**, 75, 1301-4	4.2	13
37	Novel selective thiazoleacetic acids as CRTH2 antagonists developed from in silico derived hits. Part 1. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 1177-80	2.9	13
36	Novel selective thiazoleacetic acids as CRTH2 antagonists developed from in silico derived hits. Part 2. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 1181-5	2.9	12
35	Succinct synthesis of saturated hydroxy fatty acids and evaluation of all hydroxylauric acids on FFA1, FFA4 and GPR84. *MedChemComm*, **2017**, 8, 1360-1365	5	11
34	In vitro and mouse in vivo characterization of the potent free fatty acid 1 receptor agonist TUG-469. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2013**, 386, 1021-30	3.4	11
33	Pharmacological Tool Compounds for the Free Fatty Acid Receptor 4 (FFA4/GPR120). *Handbook of Experimental Pharmacology*, **2017**, 236, 33-56	3.2	10

32	An Agonist Radioligand for the Proinflammatory Lipid-Activated G Protein-Coupled Receptor GPR84 Providing Structural Insights. *Journal of Medicinal Chemistry*, **2020**, 63, 2391-2410	8.3	10
31	A concise synthesis of the potent inflammatory mediator 5-oxo-ETE. *MedChemComm*, **2012**, 3, 195-198	5	9
30	PGH1, the precursor for the anti-inflammatory prostaglandins of the 1-series, is a potent activator of the pro-inflammatory receptor CRTH2/DP2. *PLoS ONE*, **2012**, 7, e33329	3.7	9
29	Synthesis of All Diastereomers of the 2-Deoxypentoses and the 2,6-Dideoxyhexoses from 2-Phenyl-1,3-dioxan-5-one Hydrate. *European Journal of Organic Chemistry*, **2001**, 2001, 3367	3.2	9
28	Molecular Mechanism of Action for Allosteric Modulators and Agonists in CC-chemokine Receptor 5 (CCR5). *Journal of Biological Chemistry*, **2016**, 291, 26860-26874	5.4	9
27	Synthesis and in vitro evaluation of a selective antagonist and the corresponding radioligand for the prostaglandin D2 receptor CRTH2. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 5924-7	2.9	8
26	Mucus can change the permeation rank order of drug candidates. *International Journal of Pharmaceutics*, **2013**, 452, 276-82	6.5	7
25	A Method for the Selective Hydrolysis of Ketone Hydrazones in the Presence of Acetals. *European Journal of Organic Chemistry*, **2000**, 2000, 3971-3972	3.2	7
24	Novel GPR120 agonist TUG891 modulates fat taste perception and preference and activates tongue-brain-gut axis in mice. *Journal of Lipid Research*, **2020**, 61, 133-142	6.3	7
23	Dihydropyridine Fluorophores Allow for Specific Detection of Human Antibodies in Serum. *ACS Omega*, **2018**, 3, 7580-7586	3.9	6
22	1,2-Di-hydro-spiro-[carbazole-3(4H),2∀[1,3]dioxolane]. *Acta Crystallographica Section E: Structure Reports Online*, **2009**, 65, o579		6
21	Autocrine negative feedback regulation of lipolysis through sensing of NEFAs by FFAR4/GPR120 in WAT. *Molecular Metabolism*, **2020**, 42, 101103	8.8	6
20	Pathophysiological regulation of lung function by the free fatty acid receptor FFA4. *Science Translational Medicine*, **2020**, 12,	17.5	6
19	Structure-Activity Relationship Studies of Tetrahydroquinolone Free Fatty Acid Receptor 3 Modulators. *Journal of Medicinal Chemistry*, **2020**, 63, 3577-3595	8.3	5
18	FFA2-, but not FFA3-agonists inhibit GSIS of human pseudoislets: a comparative study with mouse islets and rat INS-1E cells. *Scientific Reports*, **2020**, 10, 16497	4.9	5
17	Activation of GPR40 induces hypothalamic neurogenesis through p38- and BDNF-dependent mechanisms. *Scientific Reports*, **2020**, 10, 11047	4.9	5
16	Synthesis of 3,5-O-Benzylidene-2-deoxy-L-riboaldose from 5,5-Dihydroxy-2-phenyl-1,3-dioxane. *Synthetic Communications*, **2000**, 30, 2275-2280	1.7	4
15	Synthesis of Racemic 3,5-O-Benzylidene-2-deoxypentoses from 2-Phenyl-1,3-dioxan-5-one Hydrate.. *Acta Chemica Scandinavica*, **1997**, 51, 1041-1044		4

14	Structure-activity relationships and identification of optmized CC-chemokine receptor CCR1, 5, and 8 metal-ion chelators. *Journal of Chemical Information and Modeling*, **2013**, 53, 2863-73	6.1	2
13	Chemogenetic analysis of how receptors for short chain fatty acids regulate the gut-brain axis		2
12	Acute effects of delayed-release hydrolyzed pine nut oil on glucose tolerance, incretins, ghrelin and appetite in healthy humans. *Clinical Nutrition*, **2021**, 40, 2169-2179	5.9	2
11	Discovery of GPR183 Agonists Based on an Antagonist Scaffold. *ChemMedChem*, **2021**, 16, 2623-2627	3.7	2
10	The Two Formyl Peptide Receptors Differently Regulate GPR84-Mediated Neutrophil NADPH Oxidase Activity. *Journal of Innate Immunity*, **2021**, 13, 242-256	6.9	2
9	Chemogenetics defines a short-chain fatty acid receptor gut-brain axis.. *ELife*, **2022**, 11,	8.9	2
8	Pathophysiological regulation of lung function by the free fatty acid receptor FFA4		1
7	Ethyl 2-(1,2,3,4-tetrahydro-spiro-[carba-zole-3,2′-[1,3]dioxolan]-9-yl)acetate. *Acta Crystallographica Section E: Structure Reports Online*, **2009**, 65, o685		1
6	4-Fluoro-N-methyl-N-(1,2,3,4-tetra-hydro-carbazol-3-yl)benzene-sulfonamide. *Acta Crystallographica Section E: Structure Reports Online*, **2009**, 65, o742		1
5	One-Pot Synthesis of Xanthone by Carbonylative Suzuki Coupling Reaction. *ChemistrySelect*, **2021**, 6, 4511-4514	1.8	1
4	Selective Allosteric Modulation of N-Terminally Cleaved, but Not Full Length CCL3 in CCR1. *ACS Pharmacology and Translational Science*, **2019**, 2, 429-441	5.9	1
3	Synthesis and cellular evaluation of click-chemistry probes to study the biological effects of alpha, beta-unsaturated carbonyls.. *Redox Biology*, **2022**, 52, 102299	11.3	0
2	Defining the molecular mode of binding for α-linolenic acid and the synthetic ligand TUG891 at GPR120. *FASEB Journal*, **2013**, 27, 655.2	0.9	
1	Structure-Activity Relationship Explorations and Discovery of a Potent Antagonist for the Free Fatty Acid Receptor 2. *ChemMedChem*, **2021**, 16, 3326-3341	3.7	