Aylin C Hanyaloglu

List of Publications by Year
in descending order

110	4,046	136950	123424
papers	citations	32 h-index	61 g-index

117	117	117	4896
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The short chain fatty acid propionate stimulates GLP-1 and PYY secretion via free fatty acid receptor 2 in rodents. International Journal of Obesity, 2015, 39, 424-429.	3.4	549
2	Regulation of GPCRs by Endocytic Membrane Trafficking and Its Potential Implications. Annual Review of Pharmacology and Toxicology, 2008, 48, 537-568.	9.4	526
3	Rescue of defective G proteinâ€“coupled receptor function in vivo by intermolecular cooperation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2319-2324.	7.1	191
4	Constitutive and Agonist-dependent Homo-oligomerization of the Thyrotropin-releasing Hormone Receptor. Journal of Biological Chemistry, 2001, 276, 12736-12743.	3.4	171
5	Targeting GLP-1 receptor trafficking to improve agonist efficacy. Nature Communications, 2018, 9, 1602.	12.8	162
6	Essential role of Hrs in a recycling mechanism mediating functional resensitization of cell signaling. EMBO Journal, 2005, 24, 2265-2283.	7.8	113
7	Spatially Restricted G Protein-coupled Receptor Activity via Divergent Endocytic Compartments. Journal of Biological Chemistry, 2014, 289, 3960-3977.	3.4	107
8	Agonist-Induced Endocytosis and Recycling of the Gonadotropin-Releasing Hormone Receptor: Effect of Î²-Arrestin on Internalization Kinetics. Molecular Endocrinology, 1998, 12, 1818-1829.	3.7	105
9	Single Molecule Analysis of Functionally Asymmetric G Protein-coupled Receptor (GPCR) Oligomers Reveals Diverse Spatial and Structural Assemblies. Journal of Biological Chemistry, 2015, 290, 3875-3892.	3.4	105
10	Applications of novel resonance energy transfer techniques to study dynamic hormone receptor interactions in living cells. Trends in Endocrinology and Metabolism, 2002, 13, 415-421.	7.1	101
11	The <scp>GPR</scp> 120 agonist <scp>TUG</scp> â€891 promotes metabolic health by stimulating mitochondrial respiration in brown fat. EMBO Molecular Medicine, 2018, 10, .	6.9	91
12	Integration of GPCR Signaling and Sorting from Very Early Endosomes via Opposing APPL1 Mechanisms. Cell Reports, 2017, 21, 2855-2867.	6.4	88
13	The Rat Gonadotropin-Releasing Hormone Receptor Internalizes via a Î²-Arrestin-Independent, but Dynamin-Dependent, Pathway: Addition of a Carboxyl-Terminal Tail Confers Î²-Arrestin Dependency. Endocrinology, 2000, 141, 299-306.	2.8	84
14	Regulation of GPCR signal networks via membrane trafficking. Molecular and Cellular Endocrinology, 2011, 331, 205-214.	3.2	74
15	Homo- and Hetero-oligomerization of Thyrotropin-releasing Hormone (TRH) Receptor Subtypes. Journal of Biological Chemistry, 2002, 277, 50422-50430.	3.4	67
16	NADPH Oxidase-Derived Reactive Oxygen Species Mediate Decidualization of Human Endometrial Stromal Cells in Response to Cyclic AMP Signaling. Endocrinology, 2011, 152, 730-740.	2.8	66
17	AP2Ïƒ Mutations Impair Calcium-Sensing Receptor Trafficking and Signaling, and Show an Endosomal Pathway to Spatially Direct G-Protein Selectivity. Cell Reports, 2018, 22, 1054-1066.	6.4	66
18	Structural Lipids Enable the Formation of Functional Oligomers of the Eukaryotic Purine Symporter UapA. Cell Chemical Biology, 2018, 25, 840-848.e4.	5.2	64

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19	Casein Kinase II Sites in the Intracellular C-terminal Domain of the Thyrotropin-releasing Hormone Receptor and Chimeric Gonadotropin-releasing Hormone Receptors Contribute to Î²-Arrestin-dependent Internalization. Journal of Biological Chemistry, 2001, 276, 18066-18074.	3.4	63
20	Agonist-induced membrane nanodomain clustering drives GLP-1 receptor responses in pancreatic beta cells. PLoS Biology, 2019, 17, e3000097.	5.6	61
21	A Novel Sorting Sequence in the Î²2-Adrenergic Receptor Switches Recycling from Default to the Hrs-dependent Mechanism. Journal of Biological Chemistry, 2007, 282, 3095-3104.	3.4	58
22	Temporal reprogramming of calcium signalling via crosstalk of gonadotrophin receptors that associate as functionally asymmetric heteromers. Scientific Reports, 2018, 8, 2239.	3.3	57
23	Distinct phosphorylation sites in a prototypical GPCR differently orchestrate Î²-arrestin interaction, trafficking, and signaling. Science Advances, 2020, 6, .	10.3	55
24	Gene Expression in Granulosa Cells From Small Antral Follicles From Women With or Without Polycystic Ovaries. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 6182-6192.	3.6	53
25	Kisspeptin receptor agonist has therapeutic potential for female reproductive disorders. Journal of Clinical Investigation, 2020, 130, 6739-6753.	8.2	52
26	The Roles of Prostaglandin EP 1 and 3 Receptors in the Control of Human Myometrial Contractility. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 489-498.	3.6	46
27	Reduced FSH and LH action: implications for medically assisted reproduction. Human Reproduction, 2021, 36, 1469-1480.	0.9	43
28	Functional Deletion of the Calcium-Sensing Receptor in a Case of Neonatal Severe Hyperparathyroidism. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 3721-3730.	3.6	41
29	The direct and indirect effects of kisspeptin-54 on granulosa lutein cell function. Human Reproduction, 2018, 33, 292-302.	0.9	37
30	The Ubiquitin-like Protein PLIC-2 Is a Negative Regulator of G Protein-coupled Receptor Endocytosis. Molecular Biology of the Cell, 2008, 19, 1252-1260.	2.1	35
31	Minireview: Spatial Programming of G Protein-Coupled Receptor Activity: Decoding Signaling in Health and Disease. Molecular Endocrinology, 2015, 29, 1095-1106.	3.7	35
32	Di/Oligomerization of GPCRsâ€"Mechanisms and Functional Significance. Progress in Molecular Biology and Translational Science, 2013, 117, 163-185.	1.7	34
33	The Rat Gonadotropin-Releasing Hormone Receptor Internalizes via a Â-Arrestin-Independent, but Dynamin-Dependent, Pathway: Addition of a Carboxyl-Terminal Tail Confers Â-Arrestin Dependency. Endocrinology, 2000, 141, 299-306.	2.8	34
34	A calcium-sensing receptor mutation causing hypocalcemia disrupts a transmembrane salt bridge to activate Î²-arrestinâ€"biased signaling. Science Signaling, 2018, 11, .	3.6	32
35	Advances in Membrane Trafficking and Endosomal Signaling of G Protein-Coupled Receptors. International Review of Cell and Molecular Biology, 2018, 339, 93-131.	3.2	32
36	Allosteric Modulation of the Calcium-sensing Receptor Rectifies Signaling Abnormalities Associated with G-protein Î±-11 Mutations Causing Hypercalcemic and Hypocalcemic Disorders. Journal of Biological Chemistry, 2016, 291, 10876-10885.	3.4	31

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37	Single-molecule resolution of G protein-coupled receptor (GPCR) complexes. Methods in Cell Biology, 2016, 132, 55-72.	1.1	31
38	Membrane Estrogen Receptor (GPER) and Follicle-Stimulating Hormone Receptor (FSHR) Heteromeric Complexes Promote Human Ovarian Follicle Survival. IScience, 2020, 23, 101812.	4.1	29
39	Genetically encoded intrabody sensors report the interaction and trafficking of Î²-arrestin 1 upon activation of G-proteinâ€“coupled receptors. Journal of Biological Chemistry, 2020, 295, 10153-10167.	3.4	29
40	Gonadotropin-Releasing Hormone Receptor-Mediated Growth Suppression of Immortalized LÎ²T2 Gonadotrope and Stable HEK293 Cell Lines. Endocrinology, 2004, 145, 194-204.	2.8	28
41	Internalization kinetics of the gonadotropin-releasing hormone (GnRH) receptor. Pflugers Archiv European Journal of Physiology, 2000, 439, r019-r020.	2.8	27
42	EP2 Receptor Activates Dual G Protein Signaling Pathways that Mediate Contrasting Proinflammatory and Relaxatory Responses in Term Pregnant Human Myometrium. Endocrinology, 2014, 155, 605-617.	2.8	26
43	Intracellular Follicle-Stimulating Hormone Receptor Trafficking and Signaling. Frontiers in Endocrinology, 2018, 9, 653.	3.5	26
44	Spatial encryption of G protein-coupled receptor signaling in endosomes; Mechanisms and applications. Biochemical Pharmacology, 2017, 143, 1-9.	4.4	25
45	The oxytocin receptor antagonist, Atosiban, activates pro-inflammatory pathways in human amnion via GÎ±i signalling. Molecular and Cellular Endocrinology, 2016, 420, 11-23.	3.2	24
46	A fertilization promoting peptide (FPP)-related tripeptide competitively inhibits responses to FPP: A cause of male subfertility?. Molecular Reproduction and Development, 1997, 48, 529-535.	2.0	23
47	Arachidonic acid-dependent gene regulation during preadipocyte differentiation controls adipocyte potential. Journal of Lipid Research, 2014, 55, 2479-2490.	4.2	23
48	Oxytocin Receptor Antagonists, Atosiban and Nolasiban, Inhibit Prostaglandin F2Î±-induced Contractions and Inflammatory Responses in Human Myometrium. Scientific Reports, 2019, 9, 5792.	3.3	21
49	Identification of transmembrane domains that regulate spatial arrangements and activity of prokineticin receptor 2 dimers. Molecular and Cellular Endocrinology, 2015, 399, 362-372.	3.2	19
50	Hardwiring wire-less networks: spatially encoded GPCR signaling in endocrine systems. Current Opinion in Cell Biology, 2019, 57, 77-82.	5.4	19
51	Impact of G protein-coupled receptor heteromers in endocrine systems. Molecular and Cellular Endocrinology, 2017, 449, 21-27.	3.2	18
52	G Protein-Coupled Receptor Transactivation. Methods in Cell Biology, 2013, 117, 433-450.	1.1	17
53	Short Chain Fatty Acids Enhance Expression and Activity of the Umami Taste Receptor in Enteroendocrine Cells via a GÎ±i/o Pathway. Frontiers in Nutrition, 2020, 7, 568991.	3.7	17
54	Chemical biology of noncanonical G proteinâ€“coupled receptor signaling: TowardÂadvanced therapeutics. Current Opinion in Chemical Biology, 2020, 56, 98-110.	6.1	15

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55	Evolving View of Membrane Trafficking and Signaling Systems for G Protein-Coupled Receptors. Progress in Molecular and Subcellular Biology, 2018, 57, 273-299.	1.6	14
56	Internalization-Dependent Free Fatty Acid Receptor 2 Signaling Is Essential for Propionate-Induced Anorectic Gut Hormone Release. IScience, 2020, 23, 101449.	4.1	14
57	Pharmacological Programming of Endosomal Signaling Activated by Small Molecule Ligands of the Follicle Stimulating Hormone Receptor. Frontiers in Pharmacology, 2020, 11, 593492.	3.5	12
58	Expression and function of the luteinizing hormone choriogonadotropin receptor in human endometrial stromal cells. Scientific Reports, 2022, 12, .	3.3	12
59	Driving gonadotrophin hormone receptor signalling: the role of membrane trafficking. Reproduction, 2018, 156, R195-R208.	2.6	9
60	Pharmacological Characterization of Low Molecular Weight Biased Agonists at the Follicle Stimulating Hormone Receptor. International Journal of Molecular Sciences, 2021, 22, 9850.	4.1	7
61	Integrated structural modeling and super-resolution imaging resolve GPCR oligomers. Progress in Molecular Biology and Translational Science, 2020, 169, 151-179.	1.7	5
62	Pleiotropic GPCR signaling in health and disease. Molecular and Cellular Endocrinology, 2017, 449, 1-2.	3.2	3
63	Analysis of Spatial Assembly of GPCRs Using Photoactivatable Dyes and Localization Microscopy. Methods in Molecular Biology, 2019, 1947, 337-348.	0.9	3
64	Follicle-Stimulating Hormone Induces Lipid Droplets via GÎ±i/o and Î²-Arrestin in an Endometrial Cancer Cell Line. Frontiers in Endocrinology, 2021, 12, 798866.	3.5	3
65	Applications of BRET to study dynamic G-protein coupled receptor interactions in living cells. International Journal of Peptide Research and Therapeutics, 2001, 8, 155-162.	0.1	2
66	Class A GPCR: Di/Oligomerization of Glycoprotein Hormone Receptors. , 2017, , 207-231.		2
67	Protein homeostasis and regulation of intracellular trafficking of G protein-coupled receptors. , 2020, , 247-277.		2
68	Intracellular Trafficking of G Protein-Coupled Receptors to the Cell Surface Plasma Membrane in Health and Disease. , 2021, , 375-412.		2
69	Microbial tryptophan metabolites modulate L-cell induced GLP-1 secretion to improve glucose homeostasis. Endocrine Abstracts, 0, , .	0.0	2
70	Addition of a carboxy-terminal tail to the normally tailless gonadotropin-releasing hormone receptor impairs fertility in female mice. ELife, 2021, 10, .	6.0	2
71	Applications of BRET to study dynamic G-protein coupled receptor interactions in living cells. International Journal of Peptide Research and Therapeutics, 2001, 8, 155-162.	0.1	1
72	Editorial: G proteinâ€“coupled receptors: From molecules to medicine. Current Opinion in Endocrine and Metabolic Research, 2021, 16, iv-vi.	1.4	1

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73	Rescue of Defective G Protein-Coupled Receptor Function by Intermolecular Cooperation. Methods in Pharmacology and Toxicology, 2014, , 239-255.	0.2	1
74	TRH-1 Thyrotropin-Releasing Hormone Receptor. , 2007, , 1-8.		0
75	Super-Resolution Imaging as a Method to Study GPCR Dimers and Higher-Order Oligomers. Neuromethods, 2018, , 329-343.	0.3	0
76	SUN-266 Protein Induced Pancreatic Hormone Secretion Is Modulated by Vagal CaSR. Journal of the Endocrine Society, 2020, 4, .	0.2	0
77	LH-receptor activity and interaction with TGF-Î² family members in women with PCOS. Endocrine Abstracts, 0, , .	0.0	0
78	TRH-2 Thyrotropin-Releasing Hormone Receptor. , 2007, , 1-6.		0
79	Thyrotropin-Releasing Hormone Receptors. , 2007, , 1-2.		0
80	Identification of very early sorting endosomes that spatially program gonadotrophin hormone receptor signalling. Endocrine Abstracts, 0, , 1-1.	0.0	0
81	In vivo dimerization of LH receptors. Endocrine Abstracts, 0, , 1-1.	0.0	0
82	Regulation of LH/CG receptor signaling in human endometrium and perturbations in recurrent pregnancy loss. Endocrine Abstracts, 0, , 1-1.	0.0	0
83	Regulation of G protein-coupling specificity via cis and trans activation of the LH/chorionic gonadotrophin receptor (LHCGR). Endocrine Abstracts, 0, , 1-1.	0.0	0
84	Heterodimerisation of GNRH receptors modifies the LH-induced calcium signalling profile. Endocrine Abstracts, 0, , 1-1.	0.0	0
85	Dissecting the prokineticin receptor dimerization interface: a role in kallmann sindrome?. Endocrine Abstracts, 0, , 1-1.	0.0	0
86	Heterodimerisation of FSH and LH receptors positively modulates the LH-induced signalling profile. Endocrine Abstracts, 0, , .	0.0	0
87	Post-endocytic sorting of the LH receptor is mediated by a novel APPL1 dependent mechanism. Endocrine Abstracts, 0, , .	0.0	0
88	Single molecule analysis of GPCR transactivation reveals oligomeric complexes that regulate signal sensitivity. Endocrine Abstracts, 0, , .	0.0	0
89	Regulation of the LH/CG receptor signalling in human endometrium. Endocrine Abstracts, 0, , .	0.0	0
90	Advancing Applications of Super-Resolution Imaging: 10 November 2014, Charles Darwin House, London, UK. Biochemist, 2015, 37, 52-53.	0.5	0

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91	Decoding gonadotrophin receptor signalling via spatial regulation of the LH receptor. Endocrine Abstracts, 0, , .	0.0	0
92	Location, location, location: spatial programming of GPCR signalling. Endocrine Abstracts, 0, , .	0.0	0
93	Insight into the molecular mechanisms underlying enhanced gonadotropin hormone receptor activity in polycystic ovarian syndrome. Reproduction Abstracts, 0, , .	0.0	0
94	Insight into the molecular mechanisms underlying alterations in gonadotropin receptor activity in polycystic ovarian syndrome. Endocrine Abstracts, 0, , .	0.0	0
95	Heteromers of luteinising hormone and follicle stimulating hormone receptor positively and selectively modulates the LH-induced calcium signalling response. Endocrine Abstracts, 0, , .	0.0	0
96	Alterations in gonadotropin receptors and signal activation in granulosa lutein cells from women with polycystic ovary syndrome. Endocrine Abstracts, 0, , .	0.0	0
97	The in vivo and in vitro effects of kisspeptin on human ovarian function. Endocrine Abstracts, 0, , .	0.0	0
98	Kisspeptin receptor activity in human granulosa lutein cells. Endocrine Abstracts, 0, , .	0.0	0
99	MON-232 Differential Regulation of Genes Relevant to Reproductive Function in Human Granulosa Cells of Small Antral Follicles from Women with or without Polycystic Ovary Syndrome. Journal of the Endocrine Society, 2019, 3, .	0.2	0
100	Demonstration of follicle-stimulating hormone receptor (FSHR) and G protein-coupled estrogen receptor (GPER) heterodimerization by bioluminescence resonance energy transfer (BRET). Endocrine Abstracts, 0, , .	0.0	0
101	Dominance of ovarian follicles is determined by follicle-stimulating hormone receptor (FSHR) and G protein-coupled estrogen receptor (GPER) heteromers. Endocrine Abstracts, 0, , .	0.0	0
102	L-Phenylalanine simulates the secretion of pancreatic hormones via vagal CaSR. Endocrine Abstracts, 0, , .	0.0	0
103	Investigating the role of GPR119 in the vagus nerve. Endocrine Abstracts, 0, , .	0.0	0
104	Spatial programming of GPCR signalling. Endocrine Abstracts, 0, , .	0.0	0
105	Modulation of vagal afferent signalling by the amino acid metabolite sensor GPR35. Endocrine Abstracts, 0, , .	0.0	0
106	Demonstration of follicle-stimulating hormone receptor and G protein-coupled estrogen receptor heteromers in vitro via BRET and super-resolution imaging. Endocrine Abstracts, 0, , .	0.0	0
107	OR24-04 Ovarian Follicle Survival Is Determined by Follicle-Stimulating Hormone Receptor (FSHR) and Estrogen Receptor (GPER) Heteromers. Journal of the Endocrine Society, 2020, 4, .	0.2	0
108	Neurotensin improves glucose tolerance via activation of peripheral NTSR1-expressing neurons. Endocrine Abstracts, 0, , .	0.0	0

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109	Investigating 2-oleoylglycerol responsive neuronal pathways. Endocrine Abstracts, 0, , .	0.0	0
110	In vitro effects of dihydrotestosterone (DHT) on gonadotropin receptor function and steroidogenesis in human granulosa lutein cells. Endocrine Abstracts, 0, , .	0.0	0