Inge Depoortere

List of Publications by Year
in descending order

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112 papers	4,316 citations	117625 34 h-index	118850 62 g-index
119 all docs	119 docs citations	119 times ranked	3558 citing authors

#	Article	IF	Citations
1	Human intestinal bitter taste receptors regulate innate immune responses and metabolic regulators in obesity. Journal of Clinical Investigation, 2022, 132, .	8.2	18
2	Reply to Erren et al. Chronodisruption: Origin, Roots, and Developments of an 18-Year-Old Concept. Comment on â€œDesmet et al. Time-Restricted Feeding in Mice Prevents the Disruption of the Peripheral Circadian Clocks and Its Metabolic Impact during Chronic Jetlag. Nutrients 2021, 13, 3846â€. Nutrients, 2022, 14, 316.	4.1	0
3	Circadian clocks in the digestive system. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 239-251.	17.8	65
4	The Function of Gastrointestinal Hormones in Obesityâ€"Implications for the Regulation of Energy Intake. Nutrients, 2021, 13, 1839.	4.1	24
5	Chronodisruption by chronic jetlag impacts metabolic and gastrointestinal homeostasis in male mice. Acta Physiologica, 2021, 233, e13703.	3.8	16
6	The endocrine effects of bitter tastant administration in the gastrointestinal system: intragastric versus intraduodenal administration. American Journal of Physiology - Endocrinology and Metabolism, 2021, 321, E1-E10.	3.5	9
7	Time-Restricted Feeding in Mice Prevents the Disruption of the Peripheral Circadian Clocks and Its Metabolic Impact during Chronic Jetlag. Nutrients, 2021, 13, 3846.	4.1	12
8	Involvement of the GHSR in the developmental programming and metabolic disturbances induced by maternal undernutrition. Journal of Nutritional Biochemistry, 2020, 85, 108468.	4.2	4
9	Extra-oral bitter taste receptors: New targets against obesity?. Peptides, 2020, 127, 170284.	2.4	24
10	Night-time feeding of Bmal1â^'/â^' mice restores SCFA rhythms and their effect on ghrelin. Journal of Endocrinology, 2020, 245, 155-164.	2.6	25
11	Motilin: from gastric motility stimulation to hunger signalling. Nature Reviews Endocrinology, 2019, 15, 238-250.	9.6	43
12	Influence of subliminal intragastric fatty acid infusion on subjective and physiological responses to positive emotion induction in healthy women: A randomized trial. Psychoneuroendocrinology, 2019, 108, 43-52.	2.7	3
13	Effect of acute Î"9-tetrahydrocannabinol administration on subjective and metabolic hormone responses to food stimuli and food intake in healthy humans: a randomized, placebo-controlled study. American Journal of Clinical Nutrition, 2019, 109, 1051-1063.	4.7	7
14	Obesity alters adrenergic and chemosensory signaling pathways that regulate ghrelin secretion in the human gut. FASEB Journal, 2019, 33, 4907-4920.	0.5	36
15	Therapeutic potential of ectopic olfactory and taste receptors. Nature Reviews Drug Discovery, 2019, 18, 116-138.	46.4	188
16	The circadian clock regulates the diurnal levels of microbial shortâ€chain fatty acids and their rhythmic effects on colon contractility in mice. Acta Physiologica, 2019, 225, e13193.	3.8	64
17	Intragastric quinine administration decreases hedonic eating in healthy women through peptide-mediated gut-brain signaling mechanisms. Nutritional Neuroscience, 2019, 22, 850-862.	3.1	33
18	Effects of caloric and noncaloric sweeteners on antroduodenal motility, gastrointestinal hormone secretion and appetite-related sensations in healthy subjects. American Journal of Clinical Nutrition, 2018, 107, 707-716.	4.7	31

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19	Effect of motilin receptor activation on food intake and food timing. American Journal of Clinical Nutrition, 2018, 107, 537-543.	4.7	5
20	The motilin agonist erythromycin increases hunger by modulating homeostatic and hedonic brain circuits in healthy women: a randomized, placebo-controlled study. Scientific Reports, 2018, 8, 1819.	3.3	20
21	Obesity Impairs Oligopeptide/Amino Acidâ€Induced Ghrelin Release and Smooth Muscle Contractions in the Human Proximal Stomach. Molecular Nutrition and Food Research, 2018, 62, 1700804.	3.3	16
22	Intragastric infusion of denatonium benzoate attenuates interdigestive gastric motility and hunger scores in healthy female volunteers. American Journal of Clinical Nutrition, 2017, 105, 580-588.	4.7	51
23	The role of nutrient sensing in the metabolic changes after gastric bypass surgery. Journal of Endocrinology, 2017, 232, 363-376.	2.6	12
24	Supplementation of oligofructose, but not sucralose, decreases highâ€fat diet induced body weight gain in mice independent of gustducinâ€mediated gut hormone release. Molecular Nutrition and Food Research, 2017, 61, 1600716.	3.3	14
25	Differential brain responses to gradual intragastric nutrient infusion and gastric balloon distension: A role for gut peptides?. NeuroImage, 2017, 144, 101-112.	4.2	20
26	The Sweetener-Sensing Mechanisms of the Ghrelin Cell. Nutrients, 2016, 8, 795.	4.1	20
27	The motilin receptor agonist erythromycin stimulates hunger and food intake through a cholinergic pathway. American Journal of Clinical Nutrition, 2016, 103, 730-737.	4.7	28
28	Subchronic treatment with grape-seed phenolics inhibits ghrelin production despite a short-term stimulation of ghrelin secretion produced by bitter-sensing flavanols. Molecular Nutrition and Food Research, 2016, 60, 2554-2564.	3.3	30
29	Targeting extra-oral bitter taste receptors modulates gastrointestinal motility with effects on satiation. Scientific Reports, 2015, 5, 15985.	3.3	100
30	Taste receptors in the gut tune the release of peptides in response to nutrients. Peptides, 2015, 66, 9-12.	2.4	17
31	The Gustatory Signaling Pathway and Bitter Taste Receptors Affect the Development of Obesity and Adipocyte Metabolism in Mice. PLoS ONE, 2015, 10, e0145538.	2.5	51
32	Shifting the Circadian Rhythm of Feeding in Mice Induces Gastrointestinal, Metabolic and Immune Alterations Which Are Influenced by Ghrelin and the Core Clock Gene Bmal1. PLoS ONE, 2014, 9, e110176.	2.5	23
33	Taste receptors of the gut: emerging roles in health and disease. Gut, 2014, 63, 179-190.	12.1	251
34	Nutrient sensing in the gut: new roads to therapeutics?. Trends in Endocrinology and Metabolism, 2013, 24, 92-100.	7.1	180
35	Can small nonâ€peptide motilin agonists force a breakthrough as gastroprokinetic drugs?. British Journal of Pharmacology, 2012, 167, 760-762.	5.4	6
36	Peripheral â€œchickenâ€obestatin administration does not affect feed intake and gut muscle contractility of meat-type and layer-type chicks (Gallus gallus domesticus). Regulatory Peptides, 2012, 177, 60-67.	1.9	8

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37	The migrating motor complex: control mechanisms and its role in health and disease. Nature Reviews Gastroenterology and Hepatology, 2012, 9, 271-285.	17.8	245
38	GI functions of GPR39: novel biology. Current Opinion in Pharmacology, 2012, 12, 647-652.	3.5	37
39	Sensing of Fatty Acids for Octanoylation of Ghrelin Involves a Gustatory G-Protein. PLoS ONE, 2012, 7, e40168.	2.5	67
40	Restricted feeding induces inflammation: Role of ghrelin and clock genes?. Regulatory Peptides, 2012, 177, S24.	1.9	0
41	Specific hungerâ€•and satietyâ€‹induced tuning of guinea pig enteric nerve activity. Journal of Physiology, 2012, 590, 4321-4333.	2.9	18
42	Ghrelin's second life: from appetite stimulator to glucose regulator. World Journal of Gastroenterology, 2012, 18, 3183-95.	3.3	69
43	P.1.180: INFLUENCE OF NALOXONE AND METHYLNALTREXONE ON INTERDIGESTIVE GASTROINTESTINAL MOTILITY AND HUNGER SCORES IN MAN. Digestive and Liver Disease, 2011, 43, S207-S208.	0.9	0
44	Role of the Energy Sensor AMP-Activated Protein Kinase (AMPK) and Its Downstream Effector Uncoupling Protein 2 (UCP2) in the Orexigenic Effect of Endogenous Ghrelin. Gastroenterology, 2011, 140, S-45.	1.3	0
45	Bitter taste receptors and Î±-gustducin regulate the secretion of ghrelin with functional effects on food intake and gastric emptying. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2094-2099.	7.1	298
46	Colitis affects the smooth muscle and neural response to motilin in the rabbit antrum. British Journal of Pharmacology, 2010, 159, 384-393.	5.4	9
47	Motilin and ghrelin as prokinetic drug targets. , 2009, 123, 207-223.		84
48	Targeting the ghrelin receptor to regulate food intake. Regulatory Peptides, 2009, 156, 13-23.	1.9	52
49	Differences in motilin receptor desensitization after stimulation with motilin or motilides are due to alternative receptor trafficking. Biochemical Pharmacology, 2008, 75, 1115-1128.	4.4	13
50	Role of Ghrelin in the Relationship Between Hyperphagia and Accelerated Gastric Emptying in Diabetic Mice. Gastroenterology, 2008, 135, 1267-1276.	1.3	51
51	Effect of motilin on the discharge of rat hippocampal neurons responding to gastric distension and its potential mechanism. Peptides, 2008, 29, 585-592.	2.4	18
52	Desensitization and internalization of the human motilin receptor is independent of the C-terminal tail. Peptides, 2008, 29, 1167-1175.	2.4	8
53	Critical role of stress in increased oesophageal mucosa permeability and dilated intercellular spaces. Gut, 2007, 56, 1191-1197.	12.1	127
54	Delineation of the motilin domain involved in desensitization and internalization of the motilin receptor by using full and partial antagonists. Biochemical Pharmacology, 2007, 73, 115-124.	4.4	16

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55	Altered Gastrointestinal and Metabolic Function in the GPR39-Obestatin Receptorâ€“Knockout Mouse. Gastroenterology, 2006, 131, 1131-1141.	1.3	137
56	The contractile effect of the ghrelin receptor antagonist, D-Lys3-GHRP-6, in rat fundic strips is mediated through 5-HT receptors. European Journal of Pharmacology, 2006, 537, 160-165.	3.5	40
57	Influence of Motilin on Gastric Fundus Tone and on Meal-Induced Satiety in Man: Role of Cholinergic Pathways. American Journal of Gastroenterology, 2006, 101, 804-811.	0.4	89
58	Comparison of the gastroprokinetic effects of ghrelin, GHRP-6 and motilin in rats in vivo and in vitro. European Journal of Pharmacology, 2005, 515, 160-168.	3.5	123
59	Motilin and erythromycin-A share a common binding site in the third transmembrane segment of the motilin receptor. Biochemical Pharmacology, 2005, 70, 879-887.	4.4	30
60	Effects of ghrelin on hypothalamic glucose responding neurons in rats. Brain Research, 2005, 1055, 131-136.	2.2	37
61	Central, but not peripheral application of motilin increases c-Fos expression in hypothalamic nuclei in the rat brain. Histochemistry and Cell Biology, 2005, 123, 139-145.	1.7	6
62	The therapeutic effect of the neuropeptide hormone somatostatin on Schistosoma mansoni caused liver fibrosis. BMC Infectious Diseases, 2005, 5, 45.	2.9	13
63	Desensitization of the Human Motilin Receptor by Motilides. Journal of Pharmacology and Experimental Therapeutics, 2005, 313, 1397-1405.	2.5	87
64	Evidence for the presence of motilin, ghrelin, and the motilin and ghrelin receptor in neurons of the myenteric plexus. Regulatory Peptides, 2005, 124, 119-125.	1.9	106
65	Treatment with interleukin-11 affects plasma leptin levels in inflamed and non-inflamed rabbits. Regulatory Peptides, 2004, 122, 149-156.	1.9	7
66	Mechanisms involved in the loss of excitatory post-stimulus responses by inflammation. Naunyn-Schmiedeberg's Archives of Pharmacology, 2003, 367, 245-252.	3.0	2
67	Comparison of the prokinetic effects of ghrelin, GHRP-6 and motilin in rats in vivo and in vitro. Gastroenterology, 2003, 124, A580.	1.3	3
68	Differences in the ability of motilides to induce motilin receptor internalization underly their desensitizing capacity. Gastroenterology, 2003, 124, A1.	1.3	0
69	Ghrelin activates a subset of myenteric neurons in guinea-pig jejunum. Gastroenterology, 2003, 124, A1.	1.3	7
70	The C-terminal domain of motilin is required for complete homologous desensitization and endocytosis. Gastroenterology, 2003, 124, A119.	1.3	2
71	Motilin and erythromycin-A share a common binding site in the third transmembrane segment of the motilin receptor. Gastroenterology, 2003, 124, A136.	1.3	1
72	Sequence, distribution and quantification of the motilin precursor in the cat. Peptides, 2003, 24, 1387-1395.	2.4	15

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73	Interaction of the Growth Hormone-Releasing Peptides Ghrelin and Growth Hormone-Releasing Peptide-6 with the Motilin Receptor in the Rabbit Gastric Antrum. Journal of Pharmacology and Experimental Therapeutics, 2003, 305, 660-667.	2.5	58
74	In vitro evaluation of motilin agonism by macrolide immunosuppressive drugs. Nephrology Dialysis Transplantation, 2002, 17, 973-977.	0.7	7
75	The motilin pharmacophore in CHO cells expressing the human motilin receptor. Biochemical and Biophysical Research Communications, 2002, 293, 1223-1227.	2.1	13
76	Generalized loss of inhibitory innervation reverses serotonergic inhibition into excitation in a rabbit model of TNBS-colitis. British Journal of Pharmacology, 2002, 135, 2011-2019.	5.4	25
77	Effect of recombinant human interleukin-11 on motilin and substance P release in normal and inflamed rabbits. Regulatory Peptides, 2001, 97, 111-119.	1.9	8
78	Identification and expression of the motilin precursor in the guinea pig. FEBS Letters, 2001, 490, 7-10.	2.8	28
79	Demonstration of a functional motilin receptor in TE671 cells from human cerebellum. Brain Research, 2001, 895, 119-128.	2.2	20
80	Specific activation of TE671 cells from human cerebellum by motilin and motilides. Gastroenterology, 2000, 118, A1110-A1111.	1.3	0
81	TNBS-colitis in rabbits reverses the inhibitory effects of 5-HT agonists on neural responses to excitatory effects. Gastroenterology, 2000, 118, A1169.	1.3	0
82	Treatment with recombinant human IL-11 (rhIL-11) affects endocrine motilin and extrinsic substance P (SP) release but not receptor density in normal rabbits. Gastroenterology, 2000, 118, A108.	1.3	0
83	Differential changes in ACh-, motilin-, substance P-, and K⁺-induced contractility in rabbit colitis. American Journal of Physiology - Renal Physiology, 1999, 277, G61-G68.	3.4	20
84	Sequence and characterization of cDNA encoding the motilin precursor from chicken, dog, cow and horse. Evidence of mosaic evolution in prepromotilin. Gene, 1999, 240, 217-226.	2.2	27
85	Localization of motilin binding sites in subcellular fractions from rabbit antral and colonic smooth muscle tissue. Regulatory Peptides, 1998, 77, 89-94.	1.9	11
86	Isolation and sequence of cDNA encoding the motilin precursor from monkey intestine. Demonstration of the motilin precursor in the monkey brain. FEBS Letters, 1998, 435, 149-152.	2.8	17
87	Dose-dependent effects of interleukin-11 on contractile parameters in rabbit TNBS-colitis. Gastroenterology, 1998, 114, A742.	1.3	2
88	Differences between motilin- and muscarinic receptor-coupled Ca2+ signalling in a smooth muscle cell line of human jejunum. Gastroenterology, 1998, 114, A850-A851.	1.3	1
89	Motilin-and erythromycin-induced CA2+-signalling in myocytes from human colon. Gastroenterology, 1998, 114, A851.	1.3	1
90	Concentration-dependent stimulation of cholinergic motor nerves or smooth muscle by [Nle13]motilin in the isolated rabbit gastric antrum. European Journal of Pharmacology, 1997, 337, 267-274.	3.5	55

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91	Isolation and sequencing of the cDNA encoding the motilin precursor from sheep intestine. Gene, 1997, 202, 187-191.	2.2	8
92	Isolation, sequence, and bioactivity of chicken motilin. Peptides, 1996, 17, 203-208.	2.4	35
93	Antagonistic properties of [Phe3,Leu13]porcine motilin. European Journal of Pharmacology, 1995, 286, 241-247.	3.5	20
94	The motilin analog, OHM-11638, induces phase III-like contractions of the upper gut and enhances gastric emptying in the conscious dog. Gastroenterology, 1995, 108, A642.	1.3	1
95	Purification and amino acid sequence of human motilin isolated from a motilin containing liver metastasis. Regulatory Peptides, 1995, 55, 79-84.	1.9	14
96	Motilin binding to microsmal and synaptosomal membranes from rabbit antrum and distal colon. Gastroenterology, 1995, 108, A703.	1.3	6
97	Motilin receptor: A model for development of prokinetics. Digestive Diseases and Sciences, 1994, 39, 76S-78S.	2.3	22
98	Synthesis and characterization of siteâ€specific biotinylated probes for the motilin receptor*. International Journal of Peptide and Protein Research, 1994, 44, 582-588.	0.1	2
99	Purification and amino acid sequence of motilin from cat small intestine. Regulatory Peptides, 1993, 49, 25-32.	1.9	19
100	Distribution and characterization of motilin receptors in the cat. Peptides, 1993, 14, 1153-1157.	2.4	43
101	Effect of motilin on gastric emptying in patients with diabetic gastroparesis. Gastroenterology, 1992, 102, 97-101.	1.3	80
102	Effect of erythromycin on gastric motility in controls and in diabetic gastroparesis. Gastroenterology, 1992, 103, 72-79.	1.3	212
103	Biotinylated [Leu13]-porcine motilin for use as a receptor probe. Regulatory Peptides, 1992, 40, 202.	1.9	0
104	D-amino acid and alanine scan of porcine motilin. Regulatory Peptides, 1992, 40, 226.	1.9	3
105	d-Amino acid and alanine scans of the bioactive portion of porcine motilin. Peptides, 1992, 13, 1103-1107.	2.4	55
106	Synthesis and in vitro evaluation of [Leu13]porcine motilin fragments. Peptides, 1992, 13, 565-569.	2.4	42
107	Structure-activity relationships in motilin peptides. , 1992, , 396-397.		0
108	Effect of erythromycin and of octreotide on motilin receptor density in the rabbit. Regulatory Peptides, 1991, 32, 85-94.	1.9	25

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109	Motilin receptors of the rabbit colon. Peptides, 1991, 12, 89-94.	2.4	61
110	Development of motilin receptors and of motilin- and erythromycin-induced contractility in rabbits. Gastroenterology, 1990, 99, 652-658.	1.3	26
111	The erythromycin derivative EM-523 is a potent motilin agonist in man and in rabbit. Peptides, 1990, 11, 515-519.	2.4	60
112	BINDING AND CONTRACTION-INDUCING ACTIVITY OF MOTILIN ANALOGUES . Biomedical Research, 1988, 9, 361-366.	0.9	10