

# 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	Bitter taste receptors and $\hat{1}$ -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
2	Taste receptors of the gut: emerging roles in health and disease. Gut, 2014, 63, 179-190.	12.1	251
3	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
4	Effect of erythromycin on gastric motility in controls and in diabetic gastroparesis. Gastroenterology, 1992, 103, 72-79.	1.3	212
5	Therapeutic potential of ectopic olfactory and taste receptors. Nature Reviews Drug Discovery, 2019, 18, 116-138.	46.4	188
6	Nutrient sensing in the gut: new roads to therapeutics?. Trends in Endocrinology and Metabolism, 2013, 24, 92-100.	7.1	180
7	Altered Gastrointestinal and Metabolic Function in the GPR39-Obestatin Receptor "Knockout Mouse. Gastroenterology, 2006, 131, 1131-1141.	1.3	137
8	Critical role of stress in increased oesophageal mucosa permeability and dilated intercellular spaces. Gut, 2007, 56, 1191-1197.	12.1	127
9	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
10	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
11	Targeting extra-oral bitter taste receptors modulates gastrointestinal motility with effects on satiation. Scientific Reports, 2015, 5, 15985.	3.3	100
12	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
13	Desensitization of the Human Motilin Receptor by Motilides. Journal of Pharmacology and Experimental Therapeutics, 2005, 313, 1397-1405.	2.5	87
14	Motilin and ghrelin as prokinetic drug targets. , 2009, 123, 207-223.		84
15	Effect of motilin on gastric emptying in patients with diabetic gastroparesis. Gastroenterology, 1992, 102, 97-101.	1.3	80
16	Ghrelin's second life: from appetite stimulator to glucose regulator. World Journal of Gastroenterology, 2012, 18, 3183-95.	3.3	69
17	Sensing of Fatty Acids for Octanoylation of Ghrelin Involves a Gustatory G-Protein. PLoS ONE, 2012, 7, e40168.	2.5	67
18	Circadian clocks in the digestive system. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 239-251.	17.8	65

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19	The circadian clock regulates the diurnal levels of microbial short-chain fatty acids and their rhythmic effects on colon contractility in mice. <i>Acta Physiologica</i> , 2019, 225, e13193.	3.8	64
20	Motilin receptors of the rabbit colon. <i>Peptides</i> , 1991, 12, 89-94.	2.4	61
21	The erythromycin derivative EM-523 is a potent motilin agonist in man and in rabbit. <i>Peptides</i> , 1990, 11, 515-519.	2.4	60
22	Interaction of the Growth Hormone-Releasing Peptides Ghrelin and Growth Hormone-Releasing Peptide-6 with the Motilin Receptor in the Rabbit Gastric Antrum. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 305, 660-667.	2.5	58
23	d-Amino acid and alanine scans of the bioactive portion of porcine motilin. <i>Peptides</i> , 1992, 13, 1103-1107.	2.4	55
24	Concentration-dependent stimulation of cholinergic motor nerves or smooth muscle by [Nle13]motilin in the isolated rabbit gastric antrum. <i>European Journal of Pharmacology</i> , 1997, 337, 267-274.	3.5	55
25	Targeting the ghrelin receptor to regulate food intake. <i>Regulatory Peptides</i> , 2009, 156, 13-23.	1.9	52
26	Role of Ghrelin in the Relationship Between Hyperphagia and Accelerated Gastric Emptying in Diabetic Mice. <i>Gastroenterology</i> , 2008, 135, 1267-1276.	1.3	51
27	Intragastric infusion of denatonium benzoate attenuates interdigestive gastric motility and hunger scores in healthy female volunteers. <i>American Journal of Clinical Nutrition</i> , 2017, 105, 580-588.	4.7	51
28	The Gustatory Signaling Pathway and Bitter Taste Receptors Affect the Development of Obesity and Adipocyte Metabolism in Mice. <i>PLoS ONE</i> , 2015, 10, e0145538.	2.5	51
29	Distribution and characterization of motilin receptors in the cat. <i>Peptides</i> , 1993, 14, 1153-1157.	2.4	43
30	Motilin: from gastric motility stimulation to hunger signalling. <i>Nature Reviews Endocrinology</i> , 2019, 15, 238-250.	9.6	43
31	Synthesis and in vitro evaluation of [Leu13]porcine motilin fragments. <i>Peptides</i> , 1992, 13, 565-569.	2.4	42
32	The contractile effect of the ghrelin receptor antagonist, D-Lys3-GHRP-6, in rat fundic strips is mediated through 5-HT receptors. <i>European Journal of Pharmacology</i> , 2006, 537, 160-165.	3.5	40
33	Effects of ghrelin on hypothalamic glucose responding neurons in rats. <i>Brain Research</i> , 2005, 1055, 131-136.	2.2	37
34	GI functions of GPR39: novel biology. <i>Current Opinion in Pharmacology</i> , 2012, 12, 647-652.	3.5	37
35	Obesity alters adrenergic and chemosensory signaling pathways that regulate ghrelin secretion in the human gut. <i>FASEB Journal</i> , 2019, 33, 4907-4920.	0.5	36
36	Isolation, sequence, and bioactivity of chicken motilin. <i>Peptides</i> , 1996, 17, 203-208.	2.4	35

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37	Intragastric quinine administration decreases hedonic eating in healthy women through peptide-mediated gut-brain signaling mechanisms. <i>Nutritional Neuroscience</i> , 2019, 22, 850-862.	3.1	33
38	Effects of caloric and noncaloric sweeteners on antroduodenal motility, gastrointestinal hormone secretion and appetite-related sensations in healthy subjects. <i>American Journal of Clinical Nutrition</i> , 2018, 107, 707-716.	4.7	31
39	Motilin and erythromycin-A share a common binding site in the third transmembrane segment of the motilin receptor. <i>Biochemical Pharmacology</i> , 2005, 70, 879-887.	4.4	30
40	Subchronic treatment with grape-seed phenolics inhibits ghrelin production despite a short-term stimulation of ghrelin secretion produced by bitter-sensing flavanols. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 2554-2564.	3.3	30
41	Identification and expression of the motilin precursor in the guinea pig. <i>FEBS Letters</i> , 2001, 490, 7-10.	2.8	28
42	The motilin receptor agonist erythromycin stimulates hunger and food intake through a cholinergic pathway. <i>American Journal of Clinical Nutrition</i> , 2016, 103, 730-737.	4.7	28
43	Sequence and characterization of cDNA encoding the motilin precursor from chicken, dog, cow and horse. Evidence of mosaic evolution in prepromotilin. <i>Gene</i> , 1999, 240, 217-226.	2.2	27
44	Development of motilin receptors and of motilin- and erythromycin-induced contractility in rabbits. <i>Gastroenterology</i> , 1990, 99, 652-658.	1.3	26
45	Effect of erythromycin and of octreotide on motilin receptor density in the rabbit. <i>Regulatory Peptides</i> , 1991, 32, 85-94.	1.9	25
46	Generalized loss of inhibitory innervation reverses serotonergic inhibition into excitation in a rabbit model of TNBS-colitis. <i>British Journal of Pharmacology</i> , 2002, 135, 2011-2019.	5.4	25
47	Night-time feeding of <i>Bmal1</i> <sup>-/-</sup> mice restores SCFA rhythms and their effect on ghrelin. <i>Journal of Endocrinology</i> , 2020, 245, 155-164.	2.6	25
48	Extra-oral bitter taste receptors: New targets against obesity?. <i>Peptides</i> , 2020, 127, 170284.	2.4	24
49	The Function of Gastrointestinal Hormones in Obesity—Implications for the Regulation of Energy Intake. <i>Nutrients</i> , 2021, 13, 1839.	4.1	24
50	Shifting the Circadian Rhythm of Feeding in Mice Induces Gastrointestinal, Metabolic and Immune Alterations Which Are Influenced by Ghrelin and the Core Clock Gene <i>Bmal1</i> . <i>PLoS ONE</i> , 2014, 9, e110176.	2.5	23
51	Motilin receptor: A model for development of prokinetics. <i>Digestive Diseases and Sciences</i> , 1994, 39, 76S-78S.	2.3	22
52	Antagonistic properties of [Phe <sup>3</sup> ,Leu <sup>13</sup> ]porcine motilin. <i>European Journal of Pharmacology</i> , 1995, 286, 241-247.	3.5	20
53	Differential changes in ACh-, motilin-, substance P-, and K <sup>+</sup> -induced contractility in rabbit colitis. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 277, G61-G68.	3.4	20
54	Demonstration of a functional motilin receptor in TE671 cells from human cerebellum. <i>Brain Research</i> , 2001, 895, 119-128.	2.2	20

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55	The Sweetener-Sensing Mechanisms of the Ghrelin Cell. <i>Nutrients</i> , 2016, 8, 795.	4.1	20
56	Differential brain responses to gradual intragastric nutrient infusion and gastric balloon distension: A role for gut peptides?. <i>NeuroImage</i> , 2017, 144, 101-112.	4.2	20
57	The motilin agonist erythromycin increases hunger by modulating homeostatic and hedonic brain circuits in healthy women: a randomized, placebo-controlled study. <i>Scientific Reports</i> , 2018, 8, 1819.	3.3	20
58	Purification and amino acid sequence of motilin from cat small intestine. <i>Regulatory Peptides</i> , 1993, 49, 25-32.	1.9	19
59	Effect of motilin on the discharge of rat hippocampal neurons responding to gastric distension and its potential mechanism. <i>Peptides</i> , 2008, 29, 585-592.	2.4	18
60	Specific hunger- and satiety-induced tuning of guinea pig enteric nerve activity. <i>Journal of Physiology</i> , 2012, 590, 4321-4333.	2.9	18
61	Human intestinal bitter taste receptors regulate innate immune responses and metabolic regulators in obesity. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	18
62	Isolation and sequence of cDNA encoding the motilin precursor from monkey intestine. Demonstration of the motilin precursor in the monkey brain. <i>FEBS Letters</i> , 1998, 435, 149-152.	2.8	17
63	Taste receptors in the gut tune the release of peptides in response to nutrients. <i>Peptides</i> , 2015, 66, 9-12.	2.4	17
64	Delineation of the motilin domain involved in desensitization and internalization of the motilin receptor by using full and partial antagonists. <i>Biochemical Pharmacology</i> , 2007, 73, 115-124.	4.4	16
65	Obesity Impairs Oligopeptide/Amino Acid-Induced Ghrelin Release and Smooth Muscle Contractions in the Human Proximal Stomach. <i>Molecular Nutrition and Food Research</i> , 2018, 62, 1700804.	3.3	16
66	Chronodisruption by chronic jetlag impacts metabolic and gastrointestinal homeostasis in male mice. <i>Acta Physiologica</i> , 2021, 233, e13703.	3.8	16
67	Sequence, distribution and quantification of the motilin precursor in the cat. <i>Peptides</i> , 2003, 24, 1387-1395.	2.4	15
68	Purification and amino acid sequence of human motilin isolated from a motilin containing liver metastasis. <i>Regulatory Peptides</i> , 1995, 55, 79-84.	1.9	14
69	Supplementation of oligofructose, but not sucralose, decreases high-fat diet induced body weight gain in mice independent of gustducin-mediated gut hormone release. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600716.	3.3	14
70	The motilin pharmacophore in CHO cells expressing the human motilin receptor. <i>Biochemical and Biophysical Research Communications</i> , 2002, 293, 1223-1227.	2.1	13
71	The therapeutic effect of the neuropeptide hormone somatostatin on <i>Schistosoma mansoni</i> caused liver fibrosis. <i>BMC Infectious Diseases</i> , 2005, 5, 45.	2.9	13
72	Differences in motilin receptor desensitization after stimulation with motilin or motilides are due to alternative receptor trafficking. <i>Biochemical Pharmacology</i> , 2008, 75, 1115-1128.	4.4	13

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73	The role of nutrient sensing in the metabolic changes after gastric bypass surgery. <i>Journal of Endocrinology</i> , 2017, 232, 363-376.	2.6	12
74	Time-Restricted Feeding in Mice Prevents the Disruption of the Peripheral Circadian Clocks and Its Metabolic Impact during Chronic Jetlag. <i>Nutrients</i> , 2021, 13, 3846.	4.1	12
75	Localization of motilin binding sites in subcellular fractions from rabbit antral and colonic smooth muscle tissue. <i>Regulatory Peptides</i> , 1998, 77, 89-94.	1.9	11
76	<b>BINDING AND CONTRACTION-INDUCING ACTIVITY OF MOTILIN </b><b>ANALOGUES </b>. <i>Biomedical Research</i> , 1988, 9, 361-366.	0.9	10
77	Colitis affects the smooth muscle and neural response to motilin in the rabbit antrum. <i>British Journal of Pharmacology</i> , 2010, 159, 384-393.	5.4	9
78	The endocrine effects of bitter tastant administration in the gastrointestinal system: intragastric versus intraduodenal administration. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 321, E1-E10.	3.5	9
79	Isolation and sequencing of the cDNA encoding the motilin precursor from sheep intestine. <i>Gene</i> , 1997, 202, 187-191.	2.2	8
80	Effect of recombinant human interleukin-11 on motilin and substance P release in normal and inflamed rabbits. <i>Regulatory Peptides</i> , 2001, 97, 111-119.	1.9	8
81	Desensitization and internalization of the human motilin receptor is independent of the C-terminal tail. <i>Peptides</i> , 2008, 29, 1167-1175.	2.4	8
82	Peripheral "chicken"obestatin administration does not affect feed intake and gut muscle contractility of meat-type and layer-type chicks ( <i>Gallus gallus domesticus</i> ). <i>Regulatory Peptides</i> , 2012, 177, 60-67.	1.9	8
83	In vitro evaluation of motilin agonism by macrolide immunosuppressive drugs. <i>Nephrology Dialysis Transplantation</i> , 2002, 17, 973-977.	0.7	7
84	Chrelin activates a subset of myenteric neurons in guinea-pig jejunum. <i>Gastroenterology</i> , 2003, 124, A1.	1.3	7
85	Treatment with interleukin-11 affects plasma leptin levels in inflamed and non-inflamed rabbits. <i>Regulatory Peptides</i> , 2004, 122, 149-156.	1.9	7
86	Effect of acute $\delta^9$ -tetrahydrocannabinol administration on subjective and metabolic hormone responses to food stimuli and food intake in healthy humans: a randomized, placebo-controlled study. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 1051-1063.	4.7	7
87	Motilin binding to microsomal and synaptosomal membranes from rabbit antrum and distal colon. <i>Gastroenterology</i> , 1995, 108, A703.	1.3	6
88	Central, but not peripheral application of motilin increases c-Fos expression in hypothalamic nuclei in the rat brain. <i>Histochemistry and Cell Biology</i> , 2005, 123, 139-145.	1.7	6
89	Can small non-peptide motilin agonists force a breakthrough as gastroprokinetic drugs?. <i>British Journal of Pharmacology</i> , 2012, 167, 760-762.	5.4	6
90	Effect of motilin receptor activation on food intake and food timing. <i>American Journal of Clinical Nutrition</i> , 2018, 107, 537-543.	4.7	5

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91	Involvement of the GHSR in the developmental programming and metabolic disturbances induced by maternal undernutrition. <i>Journal of Nutritional Biochemistry</i> , 2020, 85, 108468.	4.2	4
92	D-amino acid and alanine scan of porcine motilin. <i>Regulatory Peptides</i> , 1992, 40, 226.	1.9	3
93	Comparison of the prokinetic effects of ghrelin, GHRP-6 and motilin in rats in vivo and in vitro. <i>Gastroenterology</i> , 2003, 124, A580.	1.3	3
94	Influence of subliminal intragastric fatty acid infusion on subjective and physiological responses to positive emotion induction in healthy women: A randomized trial. <i>Psychoneuroendocrinology</i> , 2019, 108, 43-52.	2.7	3
95	Dose-dependent effects of interleukin-11 on contractile parameters in rabbit TNBS-colitis. <i>Gastroenterology</i> , 1998, 114, A742.	1.3	2
96	Mechanisms involved in the loss of excitatory post-stimulus responses by inflammation. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2003, 367, 245-252.	3.0	2
97	The C-terminal domain of motilin is required for complete homologous desensitization and endocytosis. <i>Gastroenterology</i> , 2003, 124, A119.	1.3	2
98	Synthesis and characterization of site-specific biotinylated probes for the motilin receptor*. <i>International Journal of Peptide and Protein Research</i> , 1994, 44, 582-588.	0.1	2
99	The motilin analog, OHM-11638, induces phase III-like contractions of the upper gut and enhances gastric emptying in the conscious dog. <i>Gastroenterology</i> , 1995, 108, A642.	1.3	1
100	Differences between motilin- and muscarinic receptor-coupled Ca <sup>2+</sup> signalling in a smooth muscle cell line of human jejunum. <i>Gastroenterology</i> , 1998, 114, A850-A851.	1.3	1
101	Motilin and erythromycin-induced Ca <sup>2+</sup> -signalling in myocytes from human colon. <i>Gastroenterology</i> , 1998, 114, A851.	1.3	1
102	Motilin and erythromycin-A share a common binding site in the third transmembrane segment of the motilin receptor. <i>Gastroenterology</i> , 2003, 124, A136.	1.3	1
103	Biotinylated [Leu13]-porcine motilin for use as a receptor probe. <i>Regulatory Peptides</i> , 1992, 40, 202.	1.9	0
104	Specific activation of TE671 cells from human cerebellum by motilin and motilides. <i>Gastroenterology</i> , 2000, 118, A1110-A1111.	1.3	0
105	TNBS-colitis in rabbits reverses the inhibitory effects of 5-HT agonists on neural responses to excitatory effects. <i>Gastroenterology</i> , 2000, 118, A1169.	1.3	0
106	Treatment with recombinant human IL-11 (rhIL-11) affects endocrine motilin and extrinsic substance P (SP) release but not receptor density in normal rabbits. <i>Gastroenterology</i> , 2000, 118, A108.	1.3	0
107	Differences in the ability of motilides to induce motilin receptor internalization underly their desensitizing capacity. <i>Gastroenterology</i> , 2003, 124, A1.	1.3	0
108	P.1.180: INFLUENCE OF NALOXONE AND METHYLNALTREXONE ON INTERDIGESTIVE GASTROINTESTINAL MOTILITY AND HUNGER SCORES IN MAN. <i>Digestive and Liver Disease</i> , 2011, 43, S207-S208.	0.9	0

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109	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. <i>Gastroenterology</i> , 2011, 140, S-45.	1.3	0
110	Restricted feeding induces inflammation: Role of ghrelin and clock genes?. <i>Regulatory Peptides</i> , 2012, 177, S24.	1.9	0
111	Structure-activity relationships in motilin peptides. , 1992, , 396-397.		0
112	Reply to Erren et al. Chronodisruption: Origin, Roots, and Developments of an 18-Year-Old Concept. Comment on Desmet et al. Time-Restricted Feeding in Mice Prevents the Disruption of the Peripheral Circadian Clocks and Its Metabolic Impact during Chronic Jetlag. <i>Nutrients</i> 2021, 13, 3846. <i>Nutrients</i> , 2022, 14, 316.	4.1	0