Kaatje Lenaerts

List of Publications by Citations

73 papers	2,887 citations	29 h-index	53 g-index
79 ext. papers	3,569 ext. citations	4.9 avg, IF	4.96 L-index

#	Paper	IF	Citations
73	Effects of Gut Microbiota Manipulation by Antibiotics on Host Metabolism in Obese Humans: A Randomized Double-Blind Placebo-Controlled Trial. *Cell Metabolism*, **2016**, 24, 63-74	24.6	187
72	Exercise-induced splanchnic hypoperfusion results in gut dysfunction in healthy men. *PLoS ONE*, **2011**, 6, e22366	3.7	179
71	Role of short-chain fatty acids in colonic inflammation, carcinogenesis, and mucosal protection and healing. *Nutrition Reviews*, **2017**, 75, 286-305	6.4	156
70	Colonic infusions of short-chain fatty acid mixtures promote energy metabolism in overweight/obese men: a randomized crossover trial. *Scientific Reports*, **2017**, 7, 2360	4.9	144
69	Physiology and pathophysiology of splanchnic hypoperfusion and intestinal injury during exercise: strategies for evaluation and prevention. *American Journal of Physiology - Renal Physiology*, **2012**, 303, G155-68	5.1	142
68	Non-invasive assessment of barrier integrity and function of the human gut. *World Journal of Gastrointestinal Surgery*, **2010**, 2, 61-9	2.4	119
67	Distal, not proximal, colonic acetate infusions promote fat oxidation and improve metabolic markers in overweight/obese men. *Clinical Science*, **2016**, 130, 2073-2082	6.5	114
66	Human intestinal ischemia-reperfusion-induced inflammation characterized: experiences from a new translational model. *American Journal of Pathology*, **2010**, 176, 2283-91	5.8	113
65	Supplementation of Diet With Galacto-oligosaccharides Increases Bifidobacteria, but Not Insulin Sensitivity, in Obese Prediabetic Individuals. *Gastroenterology*, **2017**, 153, 87-97.e3	13.3	108
64	The prebiotic inulin improves substrate metabolism and promotes short-chain fatty acid production in overweight to obese men. *Metabolism: Clinical and Experimental*, **2018**, 87, 25-35	12.7	96
63	Level of activation of the unfolded protein response correlates with Paneth cell apoptosis in human small intestine exposed to ischemia/reperfusion. *Gastroenterology*, **2011**, 140, 529-539.e3	13.3	91
62	Disturbed intestinal integrity in patients with COPD: effects of activities of daily living. *Chest*, **2014**, 145, 245-252	5.3	90
61	Enteroendocrine L Cells Sense LPS after Gut Barrier Injury to Enhance GLP-1 Secretion. *Cell Reports*, **2017**, 21, 1160-1168	10.6	85
60	Life and death at the mucosal-luminal interface: New perspectives on human intestinal ischemia-reperfusion. *World Journal of Gastroenterology*, **2016**, 22, 2760-70	5.6	75
59	Comparative proteomic analysis of cell lines and scrapings of the human intestinal epithelium. *BMC Genomics*, **2007**, 8, 91	4.5	68
58	Novel multi-sugar assay for site-specific gastrointestinal permeability analysis: a randomized controlled crossover trial. *Clinical Nutrition*, **2013**, 32, 245-51	5.9	66
57	Ischaemia-induced mucus barrier loss and bacterial penetration are rapidly counteracted by increased goblet cell secretory activity in human and rat colon. *Gut*, **2013**, 62, 250-8	19.2	65

56	Starvation compromises Paneth cells. *American Journal of Pathology*, **2011**, 179, 2885-93	5.8	65
55	Reduced Paneth cell antimicrobial protein levels correlate with activation of the unfolded protein response in the gut of obese individuals. *Journal of Pathology*, **2011**, 225, 276-84	9.4	65
54	Aggravation of exercise-induced intestinal injury by Ibuprofen in athletes. *Medicine and Science in Sports and Exercise*, **2012**, 44, 2257-62	1.2	56
53	Dietary protein digestion and absorption are impaired during acute postexercise recovery in young men. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2013**, 304, R356-61	2.2	53
52	L-citrulline improves splanchnic perfusion and reduces gut injury during exercise. *Medicine and Science in Sports and Exercise*, **2014**, 46, 2039-46	1.2	49
51	Total parenteral nutrition induces a shift in the Firmicutes to Bacteroidetes ratio in association with Paneth cell activation in rats. *Journal of Nutrition*, **2012**, 142, 2141-7	4.1	46
50	Hepatic Uptake of Rectally Administered Butyrate Prevents an Increase in Systemic Butyrate Concentrations in Humans. *Journal of Nutrition*, **2015**, 145, 2019-24	4.1	44
49	New insights in intestinal ischemia-reperfusion injury: implications for intestinal transplantation. *Current Opinion in Organ Transplantation*, **2013**, 18, 298-303	2.5	44
48	Novel analytical approach to a multi-sugar whole gut permeability assay. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2011**, 879, 2794-801	3.2	42
47	Lipid-rich enteral nutrition regulates mucosal mast cell activation via the vagal anti-inflammatory reflex. *American Journal of Physiology - Renal Physiology*, **2013**, 305, G383-91	5.1	34
46	Starvation induces phase-specific changes in the proteome of mouse small intestine. *Journal of Proteome Research*, **2006**, 5, 2113-22	5.6	32
45	Distal versus proximal intestinal short-chain fatty acid release in man. *Gut*, **2019**, 68, 764-765	19.2	29
44	Increased Small Intestinal Permeability during Severe Acute Exacerbations of COPD. *Respiration*, **2018**, 95, 334-342	3.7	29
43	Farnesoid X Receptor Activation Attenuates Intestinal Ischemia Reperfusion Injury in Rats. *PLoS ONE*, **2017**, 12, e0169331	3.7	27
42	Arginine deficiency in preconfluent intestinal Caco-2 cells modulates expression of proteins involved in proliferation, apoptosis, and heat shock response. *Proteomics*, **2007**, 7, 565-577	4.8	26
41	Fructose and Sucrose Intake Increase Exogenous Carbohydrate Oxidation during Exercise. *Nutrients*, **2017**, 9,	6.7	25
40	The effect of endurance exercise on intestinal integrity in well-trained healthy men. *Physiological Reports*, **2016**, 4, e12994	2.6	23
39	Adaptation of exercise-induced stress in well-trained healthy young men. *Experimental Physiology*, **2017**, 102, 86-99	2.4	21

38	Glutamine regulates the expression of proteins with a potential health-promoting effect in human intestinal Caco-2 cells. *Proteomics*, **2006**, 6, 2454-64	4.8	19
37	Effect of wheat bran derived prebiotic supplementation on gastrointestinal transit, gut microbiota, and metabolic health: a randomized controlled trial in healthy adults with a slow gut transit. *Gut Microbes*, **2020**, 12, 1704141	8.8	18
36	Polyethylene glycol versus dual sugar assay for gastrointestinal permeability analysis: is it time to choose?. *Clinical and Experimental Gastroenterology*, **2012**, 5, 139-50	3.1	17
35	Near-infrared fluorescence image-guidance in anastomotic colorectal cancer surgery and its relation to serum markers of anastomotic leakage: a clinical pilot study. *Surgical Endoscopy and Other Interventional Techniques*, **2019**, 33, 3766-3774	5.2	15
34	Endurance Exercise Increases Intestinal Uptake of the Peanut Allergen Ara h 6 after Peanut Consumption in Humans. *Nutrients*, **2017**, 9,	6.7	15
33	Human small intestine is capable of restoring barrier function after short ischemic periods. *World Journal of Gastroenterology*, **2017**, 23, 8452-8464	5.6	14
32	SM22 a Plasma Biomarker for Human Transmural Intestinal Ischemia. *Annals of Surgery*, **2018**, 268, 120-126	7.8	14
31	The Human Colon Is More Resistant to Ischemia-reperfusion-induced Tissue Damage Than the Small Intestine: An Observational Study. *Annals of Surgery*, **2015**, 262, 304-11	7.8	13
30	Sucrose but Not Nitrate Ingestion Reduces Strenuous Cycling-induced Intestinal Injury. *Medicine and Science in Sports and Exercise*, **2019**, 51, 436-444	1.2	12
29	Beneficial Effects of Vitamin D Treatment in an Obese Mouse Model of Non-Alcoholic Steatohepatitis. *Nutrients*, **2019**, 11,	6.7	12
28	Parenteral nutrition dysregulates bile salt homeostasis in a rat model of parenteral nutrition-associated liver disease. *Clinical Nutrition*, **2017**, 36, 1403-1410	5.9	10
27	Body Position Modulates Gastric Emptying and Affects the Post-Prandial Rise in Plasma Amino Acid Concentrations Following Protein Ingestion in Humans. *Nutrients*, **2016**, 8, 221	6.7	10
26	Differentiation stage-dependent preferred uptake of basolateral (systemic) glutamine into Caco-2 cells results in its accumulation in proteins with a role in cell-cell interaction. *FEBS Journal*, **2005**, 272, 3350-64	5.7	9
25	Females Are More Resistant to Ischemia-Reperfusion-induced Intestinal Injury Than Males: A Human Study. *Annals of Surgery*, **2020**, 272, 1070-1079	7.8	9
24	Chronic Intra-Uterine Infection Induces Injury of the Enteric Nervous System in Ovine Fetuses. *Frontiers in Immunology*, **2020**, 11, 189	8.4	8
23	Plasma intestinal fatty acid-binding protein fails to predict endoscopic disease activity in inflammatory bowel disease patients. *European Journal of Gastroenterology and Hepatology*, **2016**, 28, 807-13	2.2	7
22	Integrated visualization of a multi-omics study of starvation in mouse intestine. *Journal of Integrative Bioinformatics*, **2014**, 11, 235	3.8	6
21	Prevention of intra-abdominal adhesions by a hyaluronic acid gel; an experimental study in rats. *Journal of Biomaterials Applications*, **2021**, 35, 887-897	2.9	6

20	Food ingestion in an upright sitting position increases postprandial amino acid availability when compared with food ingestion in a lying down position. *Applied Physiology, Nutrition and Metabolism*, **2017**, 42, 738-743	3	5
19	Integrated visualization of a multi-omics study of starvation in mouse intestine. *Journal of Integrative Bioinformatics*, **2014**, 11, 1-16	3.8	5
18	Proteomics analysis of human intestinal organoids during hypoxia and reoxygenation as a model to study ischemia-reperfusion injury. *Cell Death and Disease*, **2021**, 12, 95	9.8	5
17	GI symptoms in patients with COPD. *Chest*, **2014**, 145, 1437-8	5.3	3
16	FXR agonism protects against liver injury in a rat model of intestinal failure-associated liver disease. *Journal of Clinical and Translational Research*, **2018**, 3, 318-327	1.1	3
15	Combined Quantitative (Phospho)proteomics and Mass Spectrometry Imaging Reveal Temporal and Spatial Protein Changes in Human Intestinal Ischemia-Reperfusion. *Journal of Proteome Research*, **2021**,	5.6	3
14	Prophylactic Intra-Uterine Cyclodextrin Administration during Intra-Uterine Infection Partly Prevents Liver Inflammation without Interfering with the Enterohepatic Circulation of the Fetal Sheep. *Nutrients*, **2020**, 12,	6.7	2
13	Comparing Five New Polymer Barriers for the Prevention of Intra-abdominal Adhesions in a Rat Model. *Journal of Surgical Research*, **2019**, 243, 453-459	2.5	2
12	Temporal Transcript Profiling Identifies a Role for Unfolded Protein Stress in Human Gut Ischemia-Reperfusion Injury. *Cellular and Molecular Gastroenterology and Hepatology*, **2021**,	7.9	1
11	Paneth Cell Alterations During Ischemia-reperfusion, Follow-up, and Graft Rejection After Intestinal Transplantation. *Transplantation*, **2020**, 104, 1952-1958	1.8	0
10	Intestinal permeability before and after albendazole treatment in low and high socioeconomic status schoolchildren in Makassar, Indonesia.. *Scientific Reports*, **2022**, 12, 3394	4.9	0
9	Fructose and Sucrose Ingestion Increase Exogenous Carbohydrate Oxidation Rates During Exercise in Trained Cyclists. *Medicine and Science in Sports and Exercise*, **2017**, 49, 188	1.2	
8	Paneth Cell Alterations After Intestinal Transplantation and During Graft Rejection. *Transplantation* , **2017**, 101, S64	1.8	
7	Villin-1 Is a Novel Serological Biomarker for Intestinal Ischemia and Reperfusion Injury in Rats and Humans. *Transplantation*, **2017**, 101, S91	1.8	
6	Human intestinal ischemia/reperfusion-induced inflammation characterized: experiences from a new translational model. *FASEB Journal*, **2010**, 24, 565.15	0.9	
5	Expression profiling of intestinal ischemia/reperfusion: first human in vivo findings. *FASEB Journal*, **2010**, 24, 565.19	0.9	
4	Decreased expression of Paneth cell antimicrobial peptides coincide with bacterial translocation after starvation. *FASEB Journal*, **2010**, 24, 117.8	0.9	
3	Chorioamnionitis induces hepatic inflammation and time-dependent changes of the enterohepatic circulation in the ovine fetus. *Scientific Reports*, **2021**, 11, 10331	4.9	

2	Evaluating the safety of two human experimental intestinal ischemia reperfusion models: A retrospective observational study. *PLoS ONE*, **2021**, 16, e0253506	3.7
1	Histopathology of human small intestinal and colonic ischemia-reperfusion: Experiences from human IR-models. *Histology and Histopathology*, **2019**, 34, 711-722	1.4