Olav Rooyackers

List of Publications by Year in Descending Order

105 papers	4,480 citations	29 h-index	66 g-index
119 ext. papers	5,608 ext. citations	6.5 avg, IF	5.16 L-index

#	Paper	IF	Citations
105	Medical nutrition therapy and clinical outcomes in critically ill adults: a European multinational, prospective observational cohort study (EuroPN).. *Critical Care*, **2022**, 26, 143	10.8	1
104	COVID-19 specific metabolic imprint yields insights into multi organ-system perturbations. *European Journal of Immunology*, **2021**,	6.1	1
103	Correction of a urea cycle defect after ex vivo gene editing of human hepatocytes. *Molecular Therapy*, **2021**, 29, 1903-1917	11.7	3
102	Protocol for a prospective cohort study on the use of clinical nutrition and assessment of long-term clinical and functional outcomes in critically ill adult patients. *Clinical Nutrition ESPEN*, **2021**, 43, 104-110	1.3	1
101	Plasma glutamine status at intensive care unit admission: an independent risk factor for mortality in critical illness. *Critical Care*, **2021**, 25, 240	10.8	2
100	Intrahepatic Microdialysis for Monitoring of Metabolic Markers to Detect Rejection Early After Liver Transplantation. *Transplantation Proceedings*, **2021**, 53, 130-135	1.1	1
99	Uptake of dietary amino acids into arterial blood during continuous enteral feeding in critically ill patients and healthy subjects. *Clinical Nutrition*, **2021**, 40, 912-918	5.9	0
98	Protein absorption and kinetics in critical illness. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2021**, 24, 71-78	3.8	3
97	SARS-CoV-2-specific humoral and cellular immunity persists through 9 months irrespective of COVID-19 severity at hospitalisation. *Clinical and Translational Immunology*, **2021**, 10, e1306	6.8	16
96	The effect of glucose control in liver surgery on glucose kinetics and insulin resistance. *Clinical Nutrition*, **2021**, 40, 4526-4534	5.9	0
95	High-dimensional profiling reveals phenotypic heterogeneity and disease-specific alterations of granulocytes in COVID-19. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	14
94	Major alterations in the mononuclear phagocyte landscape associated with COVID-19 severity. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	54
93	Gastrointestinal dysfunction in the critically ill: a systematic scoping review and research agenda proposed by the Section of Metabolism, Endocrinology and Nutrition of the European Society of Intensive Care Medicine. *Critical Care*, **2020**, 24, 224	10.8	29
92	MAIT cell activation and dynamics associated with COVID-19 disease severity. *Science Immunology*, **2020**, 5,	28	74
91	Glutamine Links Obesity to Inflammation in Human White Adipose Tissue. *Cell Metabolism*, **2020**, 31, 375-390.e11	24.6	56
90	Whole-body protein kinetics in critically ill patients during 50 or 100% energy provision by enteral nutrition: A randomized cross-over study. *PLoS ONE*, **2020**, 15, e0240045	3.7	5
89	Endogenous production of glutamine and plasma glutamine concentration in critically ill patients. *Clinical Nutrition ESPEN*, **2020**, 40, 226-230	1.3	0

88	Robust T Cell Immunity in Convalescent Individuals with Asymptomatic or Mild COVID-19. *Cell*, **2020**, 183, 158-168.e14	56.2	955
87	Natural killer cell immunotypes related to COVID-19 disease severity. *Science Immunology*, **2020**, 5,	28	183
86	Innate lymphoid cell composition associates with COVID-19 disease severity. *Clinical and Translational Immunology*, **2020**, 9, e1224	6.8	24
85	Whole-body protein kinetics in critically ill patients during 50 or 100% energy provision by enteral nutrition: A randomized cross-over study **2020**, 15, e0240045		
84	Whole-body protein kinetics in critically ill patients during 50 or 100% energy provision by enteral nutrition: A randomized cross-over study **2020**, 15, e0240045		
83	Whole-body protein kinetics in critically ill patients during 50 or 100% energy provision by enteral nutrition: A randomized cross-over study **2020**, 15, e0240045		
82	Whole-body protein kinetics in critically ill patients during 50 or 100% energy provision by enteral nutrition: A randomized cross-over study **2020**, 15, e0240045		
81	Whole-body protein kinetics in critically ill patients during 50 or 100% energy provision by enteral nutrition: A randomized cross-over study **2020**, 15, e0240045		
80	Whole-body protein kinetics in critically ill patients during 50 or 100% energy provision by enteral nutrition: A randomized cross-over study **2020**, 15, e0240045		
79	Metabolic support in the critically ill: a consensus of 19. *Critical Care*, **2019**, 23, 318	10.8	37
78	Optimal cut-off for hourly lactate reduction in ICU-treated patients with septic shock. *Acta Anaesthesiologica Scandinavica*, **2019**, 63, 885-894	1.9	1
77	Autophagy flux in critical illness, a translational approach. *Scientific Reports*, **2019**, 9, 10762	4.9	8
76	PatientsRexperiences of early postoperative cognition and its relation to cognitive decline and inflammatory responses: a protocol for a mixed-methods study. *BMJ Open*, **2019**, 9, e032650	3	1
75	Can exercise and nutrition stimulate muscle protein gain in the ICU patient?. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2019**, 22, 146-151	3.8	10
74	Evaluation of Intrahepatic Lactate/Pyruvate Ratio As a Marker for Ischemic Complications Early After Liver Transplantation-A Clinical Study. *Transplantation Direct*, **2019**, 5, e505	2.3	6
73	Low serum selenium is associated with the severity of organ failure in critically ill children. *Clinical Nutrition*, **2018**, 37, 1399-1405	5.9	11
72	Albumin mass balance and kinetics in liver transplantation. *Critical Care*, **2018**, 22, 152	10.8	5
71	An attenuated rate of leg muscle protein depletion and leg free amino acid efflux over time is seen in ICU long-stayers. *Critical Care*, **2018**, 22, 13	10.8	25

70	Co-ingesting milk fat with micellar casein does not affect postprandial protein handling in healthy older men. *Clinical Nutrition*, **2017**, 36, 429-437	5.9	29
69	Validation of a point-of-care instrument for bedside glutamine screening in the intensive care unit. *Clinical Nutrition*, **2017**, 36, 186-190	5.9	7
68	Approximation of Resting Energy Expenditure in Intensive Care Unit Patients Using the SenseWear Bracelet: A Comparison With Indirect Calorimetry. *Journal of Parenteral and Enteral Nutrition*, **2017**, 41, 976-980	4.2	
67	Omics and cachexia. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2017**, 20, 181-185	3.8	11
66	High protein intake without concerns?. *Critical Care*, **2017**, 21, 106	10.8	16
65	Muscle metabolism. *Current Opinion in Critical Care*, **2017**, 23, 264-268	3.5	1
64	Repeated quantitative measurements of De Novo synthesis of albumin and fibrinogen. *PLoS ONE*, **2017**, 12, e0174611	3.7	3
63	Influence of nutrient ingestion on amino acid transporters and protein synthesis in human skeletal muscle after sprint exercise. *Journal of Applied Physiology*, **2017**, 123, 1501-1515	3.7	6
62	A supplemental intravenous amino acid infusion sustains a positive protein balance for 24 hours in critically ill patients. *Critical Care*, **2017**, 21, 298	10.8	21
61	A Practical and Time-Efficient High-Intensity Interval Training Program Modifies Cardio-Metabolic Risk Factors in Adults with Risk Factors for Type II Diabetes. *Frontiers in Endocrinology*, **2017**, 8, 229	5.7	49
60	Improved Muscle Mitochondrial Capacity Following Gastric Bypass Surgery in Obese Subjects. *Obesity Surgery*, **2016**, 26, 1391-7	3.7	12
59	The effect of plasma from septic ICU patients on healthy rat muscle mitochondria. *Intensive Care Medicine Experimental*, **2016**, 4, 20	3.7	2
58	Omics/systems biology and cancer cachexia. *Seminars in Cell and Developmental Biology*, **2016**, 54, 92-103	7.5	23
57	Measuring energy expenditure in the intensive care unit: a comparison of indirect calorimetry by E-sCOVX and Quark RMR with Deltatrac II in mechanically ventilated critically ill patients. *Critical Care*, **2016**, 20, 54	10.8	25
56	Plasma Glutamine Concentrations in Liver Failure. *PLoS ONE*, **2016**, 11, e0150440	3.7	14
55	Does feeding induce maximal stimulation of protein balance?. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2016**, 19, 120-4	3.8	12
54	Mitochondrial Adaptation and Hibernation **2016**, 27-43		
53	Leakage of albumin in major abdominal surgery. *Critical Care*, **2016**, 20, 113	10.8	23

52	Leucine does not affect mechanistic target of rapamycin complex 1 assembly but is required for maximal ribosomal protein s6 kinase 1 activity in human skeletal muscle following resistance exercise. *FASEB Journal*, **2015**, 29, 4358-73	0.9	27
51	Short-term amino acid infusion improves protein balance in critically ill patients. *Critical Care*, **2015**, 19, 106	10.8	53
50	Optimizing the measurement of mitochondrial protein synthesis in human skeletal muscle. *Applied Physiology, Nutrition and Metabolism*, **2015**, 40, 1-9	3	11
49	Whole body protein turnover in critically ill patients with multiple organ failure. *Clinical Nutrition*, **2015**, 34, 95-100	5.9	46
48	Lactate kinetics and mitochondrial respiration in skeletal muscle of healthy humans under influence of adrenaline. *Clinical Science*, **2015**, 129, 375-84	6.5	16
47	Albumin Kinetics in Patients Undergoing Major Abdominal Surgery. *PLoS ONE*, **2015**, 10, e0136371	3.7	34
46	Plasma glutamine deficiency is associated with multiple organ failure in critically ill children. *Amino Acids*, **2015**, 47, 535-42	3.5	9
45	Effect of initiating enteral protein feeding on whole-body protein turnover in critically ill patients. *American Journal of Clinical Nutrition*, **2015**, 101, 549-57	7	39
44	Endogenous glutamine production in critically ill patients: the effect of exogenous glutamine supplementation. *Critical Care*, **2014**, 18, R72	10.8	17
43	Upper-body obese women are resistant to postprandial stimulation of protein synthesis. *Clinical Nutrition*, **2014**, 33, 802-7	5.9	8
42	A tracer bolus method for investigating glutamine kinetics in humans. *PLoS ONE*, **2014**, 9, e96601	3.7	8
41	Plasma glutamine concentration after intensive care unit discharge: an observational study. *Critical Care*, **2014**, 18, 677	10.8	7
40	Amino acid concentrations in critically ill children following cardiac surgery*. *Pediatric Critical Care Medicine*, **2014**, 15, 314-28	3	8
39	Whole body protein kinetics during hypocaloric and normocaloric feeding in critically ill patients. *Critical Care*, **2013**, 17, R158	10.8	51
38	Indirect calorimetry in mechanically ventilated patients. A systematic comparison of three instruments. *Clinical Nutrition*, **2013**, 32, 118-21	5.9	79
37	Continuous glucose monitoring by intravenous microdialysis: influence of membrane length and dialysis flow rate. *Acta Anaesthesiologica Scandinavica*, **2013**, 57, 214-9	1.9	6
36	Autophagic-lysosomal pathway is the main proteolytic system modified in the skeletal muscle of esophageal cancer patients. *American Journal of Clinical Nutrition*, **2013**, 98, 1485-92	7	70
35	Plasma Amino Acids as Predictors for Outcome in Patients at the Intense Care Unit. *FASEB Journal*, **2013**, 27, 1073.6	0.9	

34	Know your methodological assumptions. Report from the ESPEN Special Interest Group tracer methodology meetings in Nice (2010) and Gothenburg (2011). *E-SPEN Journal*, **2012**, 7, e54-e55		
33	The effect of perioperative glucose control on postoperative insulin resistance. *Clinical Nutrition*, **2012**, 31, 676-81	5.9	19
32	Protein metabolism and gene expression in skeletal muscle of critically ill patients with sepsis. *Clinical Science*, **2012**, 122, 133-42	6.5	97
31	Glutamine and glutathione at ICU admission in relation to outcome. *Clinical Science*, **2012**, 122, 591-7	6.5	131
30	Pharmacologically dosed oral glutamine reduces myocardial injury in patients undergoing cardiac surgery: a randomized pilot feasibility trial. *Journal of Parenteral and Enteral Nutrition*, **2012**, 36, 556-61	4.2	22
29	Continuous glucose monitoring by intravenous microdialysis. *Acta Anaesthesiologica Scandinavica*, **2010**, 54, 841-7	1.9	13
28	Reduced respiratory capacity in muscle mitochondria of obese subjects. *Obesity Facts*, **2010**, 3, 371-5	5.1	12
27	Using transcriptomics to identify and validate novel biomarkers of human skeletal muscle cancer cachexia. *Genome Medicine*, **2010**, 2, 1	14.4	99
26	Is leucine induced p70S6 kinase phosphorylation following resistance exercise dependent on elevated phenylalanine levels in human skeletal muscle?. *FASEB Journal*, **2010**, 24, lb273	0.9	
25	Marked upregulation of cholesterol 25-hydroxylase expression by lipopolysaccharide. *Journal of Lipid Research*, **2009**, 50, 2258-64	6.3	135
24	Systematic analysis of adaptations in aerobic capacity and submaximal energy metabolism provides a unique insight into determinants of human aerobic performance. *Journal of Applied Physiology*, **2009**, 106, 1479-86	3.7	129
23	Report of the 9th SIG Tracer Methodology meeting in Florence, 2008. *European E-journal of Clinical Nutrition and Metabolism*, **2009**, 4, e206-e207		
22	Protein metabolism in leg muscle following an endotoxin injection in healthy volunteers. *Clinical Science*, **2009**, 118, 421-7	6.5	32
21	The pattern of amino acid exchange across the brain is unaffected by intravenous glutamine supplementation in head trauma patients. *Clinical Nutrition*, **2008**, 27, 816-21	5.9	16
20	Report of the 8th SIG Tracer Methodology meeting in Prague, 2007. *European E-journal of Clinical Nutrition and Metabolism*, **2008**, 3, e29-e31		
19	Dysregulation of mitochondrial dynamics and the muscle transcriptome in ICU patients suffering from sepsis induced multiple organ failure. *PLoS ONE*, **2008**, 3, e3686	3.7	111
18	Enhanced in vivo protein synthesis in circulating immune cells of ICU patients. *Journal of Clinical Immunology*, **2007**, 27, 589-97	5.7	1
17	Effect of extended cold ischemia time on glucose metabolism in liver grafts: experimental study in pigs. *Journal of Hepato-Biliary-Pancreatic Surgery*, **2007**, 14, 183-8		14

16	Mitochondrial function in sepsis: respiratory versus leg muscle. *Critical Care Medicine*, **2007**, 35, S449-53	1.4	25
15	Derangements in mitochondrial metabolism in intercostal and leg muscle of critically ill patients with sepsis-induced multiple organ failure. *American Journal of Physiology - Endocrinology and Metabolism*, **2006**, 291, E1044-50	6	153
14	Adipose tissue extracts plasma ammonia after sprint exercise in women and men. *Journal of Applied Physiology*, **2006**, 101, 1576-80	3.7	14
13	Synthesis rates of total liver protein and albumin are both increased in patients with an acute inflammatory response. *Clinical Science*, **2006**, 110, 93-9	6.5	33
12	Mitochondrial protein synthesis in skeletal muscle of patients treated in the ICU. *FASEB Journal*, **2006**, 20, A187	0.9	
11	Microdialysis to investigate tissue amino acid kinetics. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2005**, 8, 77-82	3.8	7
10	Determination of in vivo protein synthesis in human palatine tonsil. *Clinical Science*, **2005**, 108, 179-84	6.5	6
9	Intensive insulin treatment in critically ill trauma patients normalizes glucose by reducing endogenous glucose production. *Journal of Clinical Endocrinology and Metabolism*, **2004**, 89, 5382-6	5.6	62
8	Insulin stimulated glucose disposal in peripheral tissues studied with microdialysis and stable isotope tracers. *Clinical Nutrition*, **2004**, 23, 743-52	5.9	7
7	Effects on skeletal muscle of intravenous glutamine supplementation to ICU patients. *Intensive Care Medicine*, **2004**, 30, 266-275	14.5	79
6	Microdialysis methods for measuring human metabolism. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2004**, 7, 515-21	3.8	19
5	Reduced oxidative power but unchanged antioxidative capacity in skeletal muscle from aged humans. *Pflugers Archiv European Journal of Physiology*, **2003**, 446, 261-9	4.6	122
4	Effects of the 11 beta-hydroxysteroid dehydrogenase inhibitor carbenoxolone on insulin sensitivity in men with type 2 diabetes. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 285-91	5.6	217
3	Metformin increases AMP-activated protein kinase activity in skeletal muscle of subjects with type 2 diabetes. *Diabetes*, **2002**, 51, 2074-81	0.9	615
2	MAIT cell activation and dynamics associated with COVID-19 disease severity and outcome		9
1	High-dimensional profiling reveals phenotypic heterogeneity and disease-specific alterations of granulocytes in COVID-19		1