

Olav Rooyackers

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Robust T Cell Immunity in Convalescent Individuals with Asymptomatic or Mild COVID-19. <i>Cell</i> , 2020 , 183, 158-168.e14	56.2	955
104	Metformin increases AMP-activated protein kinase activity in skeletal muscle of subjects with type 2 diabetes. <i>Diabetes</i> , 2002 , 51, 2074-81	0.9	615
103	Effects of the 11 beta-hydroxysteroid dehydrogenase inhibitor carbenoxolone on insulin sensitivity in men with type 2 diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003 , 88, 285-91	5.6	217
102	Natural killer cell immunotypes related to COVID-19 disease severity. <i>Science Immunology</i> , 2020 , 5,	28	183
101	Derangements in mitochondrial metabolism in intercostal and leg muscle of critically ill patients with sepsis-induced multiple organ failure. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 291, E1044-50	6	153
100	Marked upregulation of cholesterol 25-hydroxylase expression by lipopolysaccharide. <i>Journal of Lipid Research</i> , 2009 , 50, 2258-64	6.3	135
99	Glutamine and glutathione at ICU admission in relation to outcome. <i>Clinical Science</i> , 2012 , 122, 591-7	6.5	131
98	Systematic analysis of adaptations in aerobic capacity and submaximal energy metabolism provides a unique insight into determinants of human aerobic performance. <i>Journal of Applied Physiology</i> , 2009 , 106, 1479-86	3.7	129
97	Reduced oxidative power but unchanged antioxidative capacity in skeletal muscle from aged humans. <i>Pflügers Archiv European Journal of Physiology</i> , 2003 , 446, 261-9	4.6	122
96	Dysregulation of mitochondrial dynamics and the muscle transcriptome in ICU patients suffering from sepsis induced multiple organ failure. <i>PLoS ONE</i> , 2008 , 3, e3686	3.7	111
95	Using transcriptomics to identify and validate novel biomarkers of human skeletal muscle cancer cachexia. <i>Genome Medicine</i> , 2010 , 2, 1	14.4	99
94	Protein metabolism and gene expression in skeletal muscle of critically ill patients with sepsis. <i>Clinical Science</i> , 2012 , 122, 133-42	6.5	97
93	Indirect calorimetry in mechanically ventilated patients. A systematic comparison of three instruments. <i>Clinical Nutrition</i> , 2013 , 32, 118-21	5.9	79
92	Effects on skeletal muscle of intravenous glutamine supplementation to ICU patients. <i>Intensive Care Medicine</i> , 2004 , 30, 266-275	14.5	79
91	MAIT cell activation and dynamics associated with COVID-19 disease severity. <i>Science Immunology</i> , 2020 , 5,	28	74
90	Autophagic-lysosomal pathway is the main proteolytic system modified in the skeletal muscle of esophageal cancer patients. <i>American Journal of Clinical Nutrition</i> , 2013 , 98, 1485-92	7	70
89	Intensive insulin treatment in critically ill trauma patients normalizes glucose by reducing endogenous glucose production. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 5382-6	5.6	62

88	Glutamine Links Obesity to Inflammation in Human White Adipose Tissue. <i>Cell Metabolism</i> , 2020 , 31, 375-390.e11	24.6	56
87	Major alterations in the mononuclear phagocyte landscape associated with COVID-19 severity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	54
86	Short-term amino acid infusion improves protein balance in critically ill patients. <i>Critical Care</i> , 2015 , 19, 106	10.8	53
85	Whole body protein kinetics during hypocaloric and normocaloric feeding in critically ill patients. <i>Critical Care</i> , 2013 , 17, R158	10.8	51
84	A Practical and Time-Efficient High-Intensity Interval Training Program Modifies Cardio-Metabolic Risk Factors in Adults with Risk Factors for Type II Diabetes. <i>Frontiers in Endocrinology</i> , 2017 , 8, 229	5.7	49
83	Whole body protein turnover in critically ill patients with multiple organ failure. <i>Clinical Nutrition</i> , 2015 , 34, 95-100	5.9	46
82	Effect of initiating enteral protein feeding on whole-body protein turnover in critically ill patients. <i>American Journal of Clinical Nutrition</i> , 2015 , 101, 549-57	7	39
81	Metabolic support in the critically ill: a consensus of 19. <i>Critical Care</i> , 2019 , 23, 318	10.8	37
80	Albumin Kinetics in Patients Undergoing Major Abdominal Surgery. <i>PLoS ONE</i> , 2015 , 10, e0136371	3.7	34
79	Synthesis rates of total liver protein and albumin are both increased in patients with an acute inflammatory response. <i>Clinical Science</i> , 2006 , 110, 93-9	6.5	33
78	Protein metabolism in leg muscle following an endotoxin injection in healthy volunteers. <i>Clinical Science</i> , 2009 , 118, 421-7	6.5	32
77	Co-ingesting milk fat with micellar casein does not affect postprandial protein handling in healthy older men. <i>Clinical Nutrition</i> , 2017 , 36, 429-437	5.9	29
76	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. <i>Critical Care</i> , 2020 , 24, 224	10.8	29
75	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. <i>FASEB Journal</i> , 2015 , 29, 4358-73	0.9	27
74	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. <i>Critical Care</i> , 2016 , 20, 54	10.8	25
73	An attenuated rate of leg muscle protein depletion and leg free amino acid efflux over time is seen in ICU long-stayers. <i>Critical Care</i> , 2018 , 22, 13	10.8	25
72	Mitochondrial function in sepsis: respiratory versus leg muscle. <i>Critical Care Medicine</i> , 2007 , 35, S449-53	1.4	25
71	Innate lymphoid cell composition associates with COVID-19 disease severity. <i>Clinical and Translational Immunology</i> , 2020 , 9, e1224	6.8	24

70	Omics/systems biology and cancer cachexia. <i>Seminars in Cell and Developmental Biology</i> , 2016 , 54, 92-103.	3.5	23
69	Leakage of albumin in major abdominal surgery. <i>Critical Care</i> , 2016 , 20, 113	10.8	23
68	Pharmacologically dosed oral glutamine reduces myocardial injury in patients undergoing cardiac surgery: a randomized pilot feasibility trial. <i>Journal of Parenteral and Enteral Nutrition</i> , 2012 , 36, 556-61	4.2	22
67	A supplemental intravenous amino acid infusion sustains a positive protein balance for 24 hours in critically ill patients. <i>Critical Care</i> , 2017 , 21, 298	10.8	21
66	The effect of perioperative glucose control on postoperative insulin resistance. <i>Clinical Nutrition</i> , 2012 , 31, 676-81	5.9	19
65	Microdialysis methods for measuring human metabolism. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2004 , 7, 515-21	3.8	19
64	Endogenous glutamine production in critically ill patients: the effect of exogenous glutamine supplementation. <i>Critical Care</i> , 2014 , 18, R72	10.8	17
63	High protein intake without concerns?. <i>Critical Care</i> , 2017 , 21, 106	10.8	16
62	Lactate kinetics and mitochondrial respiration in skeletal muscle of healthy humans under influence of adrenaline. <i>Clinical Science</i> , 2015 , 129, 375-84	6.5	16
61	The pattern of amino acid exchange across the brain is unaffected by intravenous glutamine supplementation in head trauma patients. <i>Clinical Nutrition</i> , 2008 , 27, 816-21	5.9	16
60	SARS-CoV-2-specific humoral and cellular immunity persists through 9 months irrespective of COVID-19 severity at hospitalisation. <i>Clinical and Translational Immunology</i> , 2021 , 10, e1306	6.8	16
59	Effect of extended cold ischemia time on glucose metabolism in liver grafts: experimental study in pigs. <i>Journal of Hepato-Biliary-Pancreatic Surgery</i> , 2007 , 14, 183-8		14
58	Adipose tissue extracts plasma ammonia after sprint exercise in women and men. <i>Journal of Applied Physiology</i> , 2006 , 101, 1576-80	3.7	14
57	Plasma Glutamine Concentrations in Liver Failure. <i>PLoS ONE</i> , 2016 , 11, e0150440	3.7	14
56	High-dimensional profiling reveals phenotypic heterogeneity and disease-specific alterations of granulocytes in COVID-19. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	14
55	Continuous glucose monitoring by intravenous microdialysis. <i>Acta Anaesthesiologica Scandinavica</i> , 2010 , 54, 841-7	1.9	13
54	Improved Muscle Mitochondrial Capacity Following Gastric Bypass Surgery in Obese Subjects. <i>Obesity Surgery</i> , 2016 , 26, 1391-7	3.7	12
53	Reduced respiratory capacity in muscle mitochondria of obese subjects. <i>Obesity Facts</i> , 2010 , 3, 371-5	5.1	12

52	Does feeding induce maximal stimulation of protein balance?. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2016 , 19, 120-4	3.8	12
51	Omics and cachexia. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2017 , 20, 181-185	3.8	11
50	Optimizing the measurement of mitochondrial protein synthesis in human skeletal muscle. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015 , 40, 1-9	3	11
49	Low serum selenium is associated with the severity of organ failure in critically ill children. <i>Clinical Nutrition</i> , 2018 , 37, 1399-1405	5.9	11
48	Can exercise and nutrition stimulate muscle protein gain in the ICU patient?. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2019 , 22, 146-151	3.8	10
47	Plasma glutamine deficiency is associated with multiple organ failure in critically ill children. <i>Amino Acids</i> , 2015 , 47, 535-42	3.5	9
46	MAIT cell activation and dynamics associated with COVID-19 disease severity and outcome		9
45	Autophagy flux in critical illness, a translational approach. <i>Scientific Reports</i> , 2019 , 9, 10762	4.9	8
44	Upper-body obese women are resistant to postprandial stimulation of protein synthesis. <i>Clinical Nutrition</i> , 2014 , 33, 802-7	5.9	8
43	A tracer bolus method for investigating glutamine kinetics in humans. <i>PLoS ONE</i> , 2014 , 9, e96601	3.7	8
42	Amino acid concentrations in critically ill children following cardiac surgery*. <i>Pediatric Critical Care Medicine</i> , 2014 , 15, 314-28	3	8
41	Validation of a point-of-care instrument for bedside glutamine screening in the intensive care unit. <i>Clinical Nutrition</i> , 2017 , 36, 186-190	5.9	7
40	Plasma glutamine concentration after intensive care unit discharge: an observational study. <i>Critical Care</i> , 2014 , 18, 677	10.8	7
39	Insulin stimulated glucose disposal in peripheral tissues studied with microdialysis and stable isotope tracers. <i>Clinical Nutrition</i> , 2004 , 23, 743-52	5.9	7
38	Microdialysis to investigate tissue amino acid kinetics. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2005 , 8, 77-82	3.8	7
37	Continuous glucose monitoring by intravenous microdialysis: influence of membrane length and dialysis flow rate. <i>Acta Anaesthesiologica Scandinavica</i> , 2013 , 57, 214-9	1.9	6
36	Influence of nutrient ingestion on amino acid transporters and protein synthesis in human skeletal muscle after sprint exercise. <i>Journal of Applied Physiology</i> , 2017 , 123, 1501-1515	3.7	6
35	Determination of in vivo protein synthesis in human palatine tonsil. <i>Clinical Science</i> , 2005 , 108, 179-84	6.5	6

34	Evaluation of Intrahepatic Lactate/Pyruvate Ratio As a Marker for Ischemic Complications Early After Liver Transplantation-A Clinical Study. <i>Transplantation Direct</i> , 2019 , 5, e505	2.3	6
33	Albumin mass balance and kinetics in liver transplantation. <i>Critical Care</i> , 2018 , 22, 152	10.8	5
32	Whole-body protein kinetics in critically ill patients during 50 or 100% energy provision by enteral nutrition: A randomized cross-over study. <i>PLoS ONE</i> , 2020 , 15, e0240045	3.7	5
31	Repeated quantitative measurements of De Novo synthesis of albumin and fibrinogen. <i>PLoS ONE</i> , 2017 , 12, e0174611	3.7	3
30	Correction of a urea cycle defect after ex vivo gene editing of human hepatocytes. <i>Molecular Therapy</i> , 2021 , 29, 1903-1917	11.7	3
29	Protein absorption and kinetics in critical illness. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2021 , 24, 71-78	3.8	3
28	The effect of plasma from septic ICU patients on healthy rat muscle mitochondria. <i>Intensive Care Medicine Experimental</i> , 2016 , 4, 20	3.7	2
27	Plasma glutamine status at intensive care unit admission: an independent risk factor for mortality in critical illness. <i>Critical Care</i> , 2021 , 25, 240	10.8	2
26	Muscle metabolism. <i>Current Opinion in Critical Care</i> , 2017 , 23, 264-268	3.5	1
25	Optimal cut-off for hourly lactate reduction in ICU-treated patients with septic shock. <i>Acta Anaesthesiologica Scandinavica</i> , 2019 , 63, 885-894	1.9	1
24	Enhanced in vivo protein synthesis in circulating immune cells of ICU patients. <i>Journal of Clinical Immunology</i> , 2007 , 27, 589-97	5.7	1
23	COVID-19 specific metabolic imprint yields insights into multi organ-system perturbations. <i>European Journal of Immunology</i> , 2021 ,	6.1	1
22	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. <i>Clinical Nutrition ESPEN</i> , 2021 , 43, 104-110	1.3	1
21	Patients' experiences of early postoperative cognition and its relation to cognitive decline and inflammatory responses: a protocol for a mixed-methods study. <i>BMJ Open</i> , 2019 , 9, e032650	3	1
20	Intrahepatic Microdialysis for Monitoring of Metabolic Markers to Detect Rejection Early After Liver Transplantation. <i>Transplantation Proceedings</i> , 2021 , 53, 130-135	1.1	1
19	High-dimensional profiling reveals phenotypic heterogeneity and disease-specific alterations of granulocytes in COVID-19		1
18	Medical nutrition therapy and clinical outcomes in critically ill adults: a European multinational, prospective observational cohort study (EuroPN).. <i>Critical Care</i> , 2022 , 26, 143	10.8	1
17	Endogenous production of glutamine and plasma glutamine concentration in critically ill patients. <i>Clinical Nutrition ESPEN</i> , 2020 , 40, 226-230	1.3	0

16	Uptake of dietary amino acids into arterial blood during continuous enteral feeding in critically ill patients and healthy subjects. <i>Clinical Nutrition</i> , 2021 , 40, 912-918	5.9	o
15	The effect of glucose control in liver surgery on glucose kinetics and insulin resistance. <i>Clinical Nutrition</i> , 2021 , 40, 4526-4534	5.9	o
14	Approximation of Resting Energy Expenditure in Intensive Care Unit Patients Using the SenseWear Bracelet: A Comparison With Indirect Calorimetry. <i>Journal of Parenteral and Enteral Nutrition</i> , 2017 , 41, 976-980	4.2	
13	Know your methodological assumptions. Report from the ESPEN Special Interest Group tracer methodology meetings in Nice (2010) and Gothenburg (2011). <i>E-SPEN Journal</i> , 2012 , 7, e54-e55		
12	Report of the 9th SIG Tracer Methodology meeting in Florence, 2008. <i>European E-journal of Clinical Nutrition and Metabolism</i> , 2009 , 4, e206-e207		
11	Report of the 8th SIG Tracer Methodology meeting in Prague, 2007. <i>European E-journal of Clinical Nutrition and Metabolism</i> , 2008 , 3, e29-e31		
10	Mitochondrial protein synthesis in skeletal muscle of patients treated in the ICU. <i>FASEB Journal</i> , 2006 , 20, A187	0.9	
9	Is leucine induced p70S6 kinase phosphorylation following resistance exercise dependent on elevated phenylalanine levels in human skeletal muscle?. <i>FASEB Journal</i> , 2010 , 24, lb273	0.9	
8	Plasma Amino Acids as Predictors for Outcome in Patients at the Intense Care Unit. <i>FASEB Journal</i> , 2013 , 27, 1073.6	0.9	
7	Mitochondrial Adaptation and Hibernation 2016 , 27-43		
6	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		
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