

# Michael C Rudolph

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

2,801  
citations

331538

21  
h-index

315616

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

4522  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Glucose Transporter Glut1 Is Selectively Essential for CD4 <sup>+</sup> T Cell Activation and Effector Function. <i>Cell Metabolism</i> , 2014, 20, 61-72.	7.2	876
2	Key stages in mammary gland development. Secretory activation in the mammary gland: it's not just about milk protein synthesis!. <i>Breast Cancer Research</i> , 2007, 9, 204.	2.2	325
3	Metabolic regulation in the lactating mammary gland: a lipid synthesizing machine. <i>Physiological Genomics</i> , 2007, 28, 323-336.	1.0	219
4	Functional Development of the Mammary Gland: Use of Expression Profiling and Trajectory Clustering to Reveal Changes in Gene Expression During Pregnancy, Lactation, and Involution. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2003, 8, 287-307.	1.0	185
5	Dermal Adipocyte Lipolysis and Myofibroblast Conversion Are Required for Efficient Skin Repair. <i>Cell Stem Cell</i> , 2020, 26, 880-895.e6.	5.2	154
6	Alterations in human milk leptin and insulin are associated with early changes in the infant intestinal microbiome. <i>American Journal of Clinical Nutrition</i> , 2016, 103, 1291-1300.	2.2	118
7	Lipid Synthesis in Lactation: Diet and the Fatty Acid Switch. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2007, 12, 269-281.	1.0	101
8	Sterol regulatory element binding protein and dietary lipid regulation of fatty acid synthesis in the mammary epithelium. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 299, E918-E927.	1.8	99
9	Adipocyte hypertrophy and lipid dynamics underlie mammary gland remodeling after lactation. <i>Nature Communications</i> , 2018, 9, 3592.	5.8	76
10	Early infant adipose deposition is positively associated with the n-6 to n-3 fatty acid ratio in human milk independent of maternal BMI. <i>International Journal of Obesity</i> , 2017, 41, 510-517.	1.6	75
11	Developmental Expression of Claudins in the Mammary Gland. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2017, 22, 141-157.	1.0	41
12	Prolactin-mediated regulation of lipid biosynthesis genes in vivo in the lactating mammary epithelial cell. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E1059-E1068.	1.8	39
13	Metformin Accumulation Correlates with Organic Cation Transporter 2 Protein Expression and Predicts Mammary Tumor Regression <i>in Vivo</i> . <i>Cancer Prevention Research</i> , 2017, 10, 198-207.	0.7	37
14	Maternal obesity during lactation may protect offspring from high fat diet-induced metabolic dysfunction. <i>Nutrition and Diabetes</i> , 2018, 8, 18.	1.5	36
15	Bioactive components in human milk are differentially associated with rates of lean and fat mass deposition in infants of mothers with normal vs. elevated BMI. <i>Pediatric Obesity</i> , 2018, 13, 598-606.	1.4	35
16	Thyroid hormone responsive protein Spot14 enhances catalysis of fatty acid synthase in lactating mammary epithelium. <i>Journal of Lipid Research</i> , 2014, 55, 1052-1065.	2.0	34
17	FGFR1 underlies obesity-associated progression of estrogen receptor <sup>+</sup> positive breast cancer after estrogen deprivation. <i>JCI Insight</i> , 2018, 3, .	2.3	34
18	Low Neonatal Plasma n-6/n-3 PUFA Ratios Regulate Offspring Adipogenic Potential and Condition Adult Obesity Resistance. <i>Diabetes</i> , 2018, 67, 651-661.	0.3	33

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19	Single Cell RNA Sequencing of Human Milk-Derived Cells Reveals Sub-Populations of Mammary Epithelial Cells with Molecular Signatures of Progenitor and Mature States: a Novel, Non-invasive Framework for Investigating Human Lactation Physiology. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2020, 25, 367-387.	1.0	33
20	Modulation of tumor fatty acids, through overexpression or loss of thyroid hormone responsive protein spot 14 is associated with altered growth and metastasis. <i>Breast Cancer Research</i> , 2014, 16, 481.	2.2	30
21	Impaired tight junction sealing and precocious involution in mammary glands of PKN1 transgenic mice. <i>Journal of Cell Science</i> , 2007, 120, 2272-2283.	1.2	28
22	Mammalian fatty acid synthase activity from crude tissue lysates tracing <sup>13</sup> C-labeled substrates using gas chromatography-mass spectrometry. <i>Analytical Biochemistry</i> , 2012, 428, 158-166.	1.1	21
23	Fatty acid and lipid profiles in primary human trophoblast over 90 h in culture. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2017, 121, 14-20.	1.0	20
24	PARP Inhibition Enhances Radiotherapy of SMAD4-Deficient Human Head and Neck Squamous Cell Carcinomas in Experimental Models. <i>Clinical Cancer Research</i> , 2020, 26, 3058-3070.	3.2	20
25	Adipose-Depleted Mammary Epithelial Cells and Organoids. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2009, 14, 381-386.	1.0	19
26	Constitutive expression of microRNA-150 in mammary epithelium suppresses secretory activation and impairs <i>de novo</i> lipogenesis. <i>Development (Cambridge)</i> , 2016, 143, 4236-4248.	1.2	19
27	High-fat diet-induced dysregulation of ovarian gene expression is restored with chronic omega-3 fatty acid supplementation. <i>Molecular and Cellular Endocrinology</i> , 2020, 499, 110615.	1.6	15
28	Cancer-Associated Fibroblasts Facilitate Squamous Cell Carcinoma Lung Metastasis in Mice by Providing TGF $\beta$ -Mediated Cancer Stem Cell Niche. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 668164.	1.8	14
29	Human Milk Fatty Acid Composition: Comparison of Novel Dried Milk Spot Versus Standard Liquid Extraction Methods. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2016, 21, 131-138.	1.0	12
30	Differential neurodegenerative phenotypes are associated with heterogeneous voiding dysfunction in a coronavirus-induced model of multiple sclerosis. <i>Scientific Reports</i> , 2019, 9, 10869.	1.6	11
31	Fat-1 Transgene Is Associated With Improved Reproductive Outcomes. <i>Endocrinology</i> , 2018, 159, 3981-3992.	1.4	9
32	Compensation for cold-induced thermogenesis during weight loss maintenance and regain. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E977-E986.	1.8	7
33	Oncogenic Integration of Nucleotide Metabolism via Fatty Acid Synthase in Non-Hodgkin Lymphoma. <i>Frontiers in Oncology</i> , 2021, 11, 725137.	1.3	7
34	Liver X receptor activation enhances cholesterol secretion in lactating mammary epithelium. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E1136-E1145.	1.8	6
35	Regular exercise potentiates energetically expensive hepatic <i>de novo</i> lipogenesis during early weight regain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R684-R695.	0.9	5
36	Short-Term Adaptations in Skeletal Muscle Mitochondrial Oxidative Capacity and Metabolic Pathways to Breaking up Sedentary Behaviors in Overweight or Obese Adults. <i>Nutrients</i> , 2022, 14, 454.	1.7	4

#	ARTICLE	IF	CITATIONS
37	Resolving Human Lactation Heterogeneity Using Single Milk-Derived Cells, a Resource at the Ready. Journal of Mammary Gland Biology and Neoplasia, 2021, 26, 3-8.	1.0	3
38	Human Milk Leptin, Insulin and N6/N3 Fatty Acids are associated with Early Differences in Gut Microbiome of Infants Born to Normal Weight and Obese Mothers. FASEB Journal, 2015, 29, 121.1.	0.2	1
39	2536. Journal of Clinical and Translational Science, 2017, 1, 11-11.	0.3	0