Wolfgang Bernhard

List of Publications by Citations

59 papers	1,577 citations	24 h-index	38 g-index
60 ext. papers	1,785 ext. citations	4.7 avg, IF	4.62 L-index

#	Paper	IF	Citations
59	Commercial versus native surfactants. Surface activity, molecular components, and the effect of calcium. *American Journal of Respiratory and Critical Care Medicine*, **2000**, 162, 1524-33	10.2	169
58	Conductive airway surfactant: surface-tension function, biochemical composition, and possible alveolar origin. *American Journal of Respiratory Cell and Molecular Biology*, **1997**, 17, 41-50	5.7	98
57	Specificity and rate of human and mouse liver and plasma phosphatidylcholine synthesis analyzed in vivo. *Journal of Lipid Research*, **2011**, 52, 399-407	6.3	97
56	Phosphatidylcholine molecular species in lung surfactant: composition in relation to respiratory rate and lung development. *American Journal of Respiratory Cell and Molecular Biology*, **2001**, 25, 725-31	5.7	95
55	Dipalmitoylphosphatidylcholine is not the major surfactant phospholipid species in all mammals. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 289, R1426-39	3.2	75
54	Pulmonary surfactant in birds: coping with surface tension in a tubular lung. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2001**, 281, R327-37	3.2	59
53	Lung surfactant: Function and composition in the context of development and respiratory physiology. *Annals of Anatomy*, **2016**, 208, 146-150	2.9	59
52	Composition of phospholipid classes and phosphatidylcholine molecular species of gastric mucosa and mucus. *Lipids and Lipid Metabolism*, **1995**, 1255, 99-104		54
51	Altered phospholipid composition and aggregate structure of lung surfactant is associated with impaired lung function in young children with respiratory infections. *American Journal of Respiratory Cell and Molecular Biology*, **2002**, 27, 714-21	5.7	53
50	Mass spectrometric analysis of surfactant metabolism in human volunteers using deuteriated choline. *American Journal of Respiratory and Critical Care Medicine*, **2004**, 170, 54-8	10.2	52
49	Lipidomics of cellular and secreted phospholipids from differentiated human fetal type II alveolar epithelial cells. *Journal of Lipid Research*, **2006**, 47, 1322-31	6.3	46
48	Surfactant in newborn compared with adolescent pigs: adaptation to neonatal respiration. *American Journal of Respiratory Cell and Molecular Biology*, **2004**, 30, 694-701	5.7	42
47	From birds to humans: new concepts on airways relative to alveolar surfactant. *American Journal of Respiratory Cell and Molecular Biology*, **2004**, 30, 6-11	5.7	42
46	Early feeding of fortified breast milk and in-hospital-growth in very premature infants: a retrospective cohort analysis. *BMC Pediatrics*, **2013**, 13, 178	2.6	36
45	Effect of Increased Enteral Protein Intake on Growth in Human Milk-Fed Preterm Infants: A Randomized Clinical Trial. *JAMA Pediatrics*, **2017**, 171, 16-22	8.3	35
44	Differential effect of surfactant and its saturated phosphatidylcholines on human blood macrophages. *Journal of Lipid Research*, **2007**, 48, 307-17	6.3	34
43	Plasma phosphatidylcholine alterations in cystic fibrosis patients: impaired metabolism and correlation with lung function and inflammation. *Cellular Physiology and Biochemistry*, **2015**, 35, 1437-53	3.9	33

42	The anatomy, physics, and physiology of gas exchange surfaces: is there a universal function for pulmonary surfactant in animal respiratory structures?. *Integrative and Comparative Biology*, **2007**, 47, 610-27	2.8	33
41	Molecular species compositions of lung and pancreas phospholipids in the cftr(tm1HGU/tm1HGU) cystic fibrosis mouse. *Pediatric Research*, **2003**, 53, 447-54	3.2	31
40	Choline and polyunsaturated fatty acids in preterm infantsTmaternal milk. *European Journal of Nutrition*, **2017**, 56, 1733-1742	5.2	30
39	Surfactant from diving aquatic mammals. *Journal of Applied Physiology*, **2004**, 96, 1626-32	3.7	30
38	Developmental changes in polyunsaturated fetal plasma phospholipids and feto-maternal plasma phospholipid ratios and their association with bronchopulmonary dysplasia. *European Journal of Nutrition*, **2016**, 55, 2265-74	5.2	25
37	Choline concentrations are lower in postnatal plasma of preterm infants than in cord plasma. *European Journal of Nutrition*, **2015**, 54, 733-41	5.2	24
36	Developmental changes in rat surfactant lipidomics in the context of species variability. *Pediatric Pulmonology*, **2007**, 42, 794-804	3.5	24
35	Pulmonary and gastric surfactants. A comparison of the effect of surface requirements on function and phospholipid composition. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2001**, 129, 173-82	2.6	24
34	Choline and choline-related nutrients in regular and preterm infant growth. *European Journal of Nutrition*, **2019**, 58, 931-945	5.2	24
33	Choline supply of preterm infants: assessment of dietary intake and pathophysiological considerations. *European Journal of Nutrition*, **2013**, 52, 1269-78	5.2	23
32	Plasma phospholipids indicate impaired fatty acid homeostasis in preterm infants. *European Journal of Nutrition*, **2014**, 53, 1533-47	5.2	22
31	Myristate is selectively incorporated into surfactant and decreases dipalmitoylphosphatidylcholine without functional impairment. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 299, R1306-16	3.2	18
30	Distribution of intracellular and secreted surfactant during postnatal rat lung development. *Pediatric Pulmonology*, **2007**, 42, 548-62	3.5	17
29	Combined choline and DHA supplementation: a randomized controlled trial. *European Journal of Nutrition*, **2020**, 59, 729-739	5.2	17
28	Molecular and functional changes of pulmonary surfactant in response to hyperoxia. *Pediatric Pulmonology*, **2006**, 41, 1025-39	3.5	16
27	rhKGF stimulates lung surfactant production in neonatal rats in vivo. *Pediatric Pulmonology*, **2011**, 46, 882-95	3.5	15
26	Metabolism of surfactant phosphatidylcholine molecular species in cftr(tm1HGU/tm1HGU) mice compared to MF-1 mice. *Experimental Lung Research*, **2001**, 27, 349-66	2.3	14
25	Effect of increased enteral protein intake on plasma and urinary urea concentrations in preterm infants born at . *BMC Pediatrics*, **2018**, 18, 154	2.6	11

24	Effects of recombinant human keratinocyte growth factor on surfactant, plasma, and liver phospholipid homeostasis in hyperoxic neonatal rats. *Journal of Applied Physiology*, **2012**, 112, 1317-28	3.7	11
23	Phosphatidylcholine metabolism of rat trachea in relation to lung parenchyma and surfactant. *Journal of Applied Physiology*, **2003**, 95, 1145-52	3.7	11
22	The Effects of Lung Protective Ventilation or Hypercapnic Acidosis on Gas Exchange and Lung Injury in Surfactant Deficient Rabbits. *PLoS ONE*, **2016**, 11, e0147807	3.7	10
21	Transport of long-chain polyunsaturated fatty acids in preterm infant plasma is dominated by phosphatidylcholine. *European Journal of Nutrition*, **2018**, 57, 2105-2112	5.2	9
20	Increased palmitoyl-myristoyl-phosphatidylcholine in neonatal rat surfactant is lung specific and correlates with oral myristic acid supply. *Journal of Applied Physiology*, **2011**, 111, 449-57	3.7	8
19	Choline Supplementation in Cystic Fibrosis-The Metabolic and Clinical Impact. *Nutrients*, **2019**, 11,	6.7	7
18	Phosphatidylcholine kinetics in neonatal rat lungs and the effects of rhuKGF and betamethasone. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2016**, 310, L955-63	5.8	7
17	Choline in cystic fibrosis: relations to pancreas insufficiency, enterohepatic cycle, PEMT and intestinal microbiota. *European Journal of Nutrition*, **2021**, 60, 1737-1759	5.2	7
16	Choline Content of Term and Preterm Infant Formulae Compared to Expressed Breast Milk-How Do We Justify the Discrepancies?. *Nutrients*, **2020**, 12,	6.7	6
15	Calculating Protein Content of Expressed Breast Milk to Optimize Protein Supplementation in Very Low Birth Weight Infants with Minimal Effort-A Secondary Analysis. *Nutrients*, **2020**, 12,	6.7	4
14	Surfactant metabolism and anti-oxidative capacity in hyperoxic neonatal rat lungs: effects of keratinocyte growth factor on gene expression in vivo. *Histochemistry and Cell Biology*, **2013**, 139, 461-72	2.4	4
13	Surface tension of airway aspirates withdrawn during neonatal resuscitation reflects lung maturity. *Pediatric Pulmonology*, **2014**, 49, 751-6	3.5	4
12	Dietary Carbohydrates and Fat Induce Distinct Surfactant Alterations in Mice. *American Journal of Respiratory Cell and Molecular Biology*, **2021**, 64, 379-390	5.7	3
11	Regulation of Surfactant-Associated Phospholipid Synthesis and Secretion **2017**, 813-824.e6		2
10	Therapeutic lung surfactants as carriers for other therapeutics--a matter of vision, courage and determination. *Pediatric Pulmonology*, **2009**, 44, 1157-8	3.5	2
9	Retrospective cohort analysis on pancreatic enzyme substitution in very low birthweight infants with postnatal growth failure. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, **2018**, 103, F485-F489	4.7	2
8	Optimizing Early Neonatal Nutrition and Dietary Pattern in Premature Infants. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	2
7	Effects on Fatty Acid Metabolism of a New Powdered Human Milk Fortifier Containing Medium-Chain Triacylglycerols and Docosahexaenoic Acid in Preterm Infants. *Nutrients*, **2019**, 11,	6.7	1

6	Parenteral nutrition for preterm infants: correcting for arachidonic and docosahexaenoic acid may not suffice. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, **2021**, 106, 683	4.7	0
5	Differential metabolism of choline supplements in adult volunteers. *European Journal of Nutrition*, **2021**, 1	5.2	0
4	Resolution of severe hepatosteatosis in a cystic fibrosis patient with multifactorial choline deficiency: A case report. *Nutrition*, **2021**, 89, 111348	4.8	0
3	Supplementing Essential Polyunsaturated Fatty Acids-A Matter of Respecting Fetal Development. *JAMA Pediatrics*, **2019**, 173, 499-500	8.3	
2	Body Composition of Preterm Infants following Rapid Transition to Enteral Feeding.. *Neonatology*, **2022**, 1-9	4	
1	Lung Surfactant Phospholipid Molecular Species in Health and Disease. *Lung Biology in Health and Disease*, **2005**, 3-15		