

Florian J Schweigert

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123
papers

2,935
citations

28
h-index

48
g-index

123
ext. papers

3,221
ext. citations

3.9
avg, IF

4.73
L-index

#	Paper	IF	Citations
123	Role of endocytosis in cellular uptake of sex steroids. <i>Cell</i> , 2005 , 122, 751-62	56.2	322
122	Determining the binding affinities of phenolic compounds to proteins by quenching of the intrinsic tryptophan fluorescence. <i>Molecular Nutrition and Food Research</i> , 2006 , 50, 705-13	5.9	113
121	Effect of the stage of lactation in humans on carotenoid levels in milk, blood plasma and plasma lipoprotein fractions. <i>European Journal of Nutrition</i> , 2004 , 43, 39-44	5.2	106
120	Evidence for oxytocin receptors in cultured bovine luteal cells. <i>Biology of Reproduction</i> , 1992 , 46, 1001-6	3.9	104
119	Changes in the concentration of carotenoids, vitamin A, alpha-tocopherol and total lipids in human milk throughout early lactation. <i>Annals of Nutrition and Metabolism</i> , 2001 , 45, 82-5	4.5	103
118	Use of C-reactive protein to predict outcome in dogs with systemic inflammatory response syndrome or sepsis. <i>Journal of Veterinary Emergency and Critical Care</i> , 2009 , 19, 450-8	1.7	94
117	Evidence that kidney function but not type 2 diabetes determines retinol-binding protein 4 serum levels. <i>Diabetes</i> , 2008 , 57, 3323-6	0.9	86
116	Relation between retinol, retinol-binding protein 4, transthyretin and carotid intima media thickness. <i>Atherosclerosis</i> , 2010 , 213, 549-51	3.1	71
115	Peptide and protein profiles in serum and follicular fluid of women undergoing IVF. <i>Human Reproduction</i> , 2006 , 21, 2960-8	5.7	71
114	Concentrations of carotenoids, retinol and alpha-tocopherol in plasma and follicular fluid of women undergoing IVF. <i>Human Reproduction</i> , 2003 , 18, 1259-64	5.7	71
113	Characterization of the microheterogeneity of transthyretin in plasma and urine using SELDI-TOF-MS immunoassay. <i>Proteome Science</i> , 2004 , 2, 5	2.6	66
112	The majority of vitamin A is transported as retinyl esters in the blood of most carnivores. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1990 , 95, 573-8		64
111	Inflammation-induced changes in the nutritional biomarkers serum retinol and carotenoids. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2001 , 4, 477-81	3.8	60
110	Stability and cellular uptake of lutein-loaded emulsions. <i>Journal of Functional Foods</i> , 2014 , 8, 118-127	5.1	55
109	Isoforms of retinol binding protein 4 (RBP4) are increased in chronic diseases of the kidney but not of the liver. <i>Lipids in Health and Disease</i> , 2008 , 7, 29	4.4	55
108	Microheterogeneity of transthyretin in serum and ascitic fluid of ovarian cancer patients. <i>BMC Cancer</i> , 2005 , 5, 133	4.8	52
107	Megalyn-mediated reuptake of retinol in the kidneys of mice is essential for vitamin A homeostasis. <i>Journal of Nutrition</i> , 2005 , 135, 2512-6	4.1	46

106	C-reactive protein concentration in dogs with primary immune-mediated hemolytic anemia. <i>Veterinary Clinical Pathology</i> , 2009 , 38, 421-5	1	44
105	The distribution of vitamin A and retinol-binding protein in the blood plasma, urine, liver and kidneys of carnivores. <i>Veterinary Research</i> , 2000 , 31, 541-51	3.8	44
104	Stability and bioavailability of lutein ester supplements from Tagetes flower prepared under food processing conditions. <i>Journal of Functional Foods</i> , 2012 , 4, 602-610	5.1	41
103	Minimal inflammation, acute phase response and avoidance of misclassification of vitamin A and iron status in infants--importance of a high-sensitivity C-reactive protein (CRP) assay. <i>International Journal for Vitamin and Nutrition Research</i> , 2003 , 73, 423-30	1.7	40
102	Retinoid- and carotenoid-enriched diets influence the ontogenesis of the immune system in mice. <i>Immunology</i> , 2003 , 110, 180-7	7.8	39
101	Carotenoids and their metabolites are naturally occurring activators of gene expression via the pregnane X receptor. <i>European Journal of Nutrition</i> , 2004 , 43, 336-43	5.2	38
100	Protein profiling of urine from dogs with renal disease using ProteinChip analysis. <i>Journal of Veterinary Diagnostic Investigation</i> , 2004 , 16, 271-7	1.5	36
99	Improved extraction procedure for carotenoids from human milk. <i>International Journal for Vitamin and Nutrition Research</i> , 2000 , 70, 79-83	1.7	32
98	The effect of tannins on Mediterranean ruminant ingestive behavior: the role of the oral cavity. <i>Molecules</i> , 2011 , 16, 2766-84	4.8	31
97	Application of phenylboronic acid modified hydrogel affinity chips for high-throughput mass spectrometric analysis of glycated proteins. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 1-6	2.2	31
96	Changes in faecal bacteria and metabolic parameters in foals during the first six weeks of life. <i>Veterinary Microbiology</i> , 2011 , 151, 321-8	3.3	28
95	Nutritional proteomics: methods and concepts for research in nutritional science. <i>Annals of Nutrition and Metabolism</i> , 2007 , 51, 99-107	4.5	28
94	Effects of energy mobilization during fasting and lactation on plasma metabolites in the grey seal (<i>Halichoerus grypus</i>). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1993 , 105, 347-52		27
93	Vitamin A in blood plasma and urine of dogs is affected by the dietary level of vitamin A. <i>International Journal for Vitamin and Nutrition Research</i> , 2000 , 70, 84-91	1.7	26
92	Exercise increases the plasma antioxidant capacity of adolescent athletes. <i>Annals of Nutrition and Metabolism</i> , 2008 , 53, 96-103	4.5	24
91	Effects of chronic renal disease on the transport of vitamin A in plasma and urine of dogs. <i>American Journal of Veterinary Research</i> , 2003 , 64, 874-9	1.1	24
90	Impact of vitamin A on clinical outcomes in haemodialysis patients. <i>Nephrology Dialysis Transplantation</i> , 2011 , 26, 4054-61	4.3	23
89	Inhibition of IgE-production by peroxisome proliferator-activated receptor ligands. <i>Journal of Investigative Dermatology</i> , 2003 , 121, 757-64	4.3	23

88	Alterations of retinol-binding protein 4 species in patients with different stages of chronic kidney disease and their relation to lipid parameters. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 393, 79-83	3.4	21
87	Influence of kidney function on urinary excretion of albumin and retinol-binding protein in dogs with naturally occurring renal disease. <i>American Journal of Veterinary Research</i> , 2010 , 71, 1387-94	1.1	21
86	Effect of leukoreduction treatment on vascular endothelial growth factor concentration in stored canine blood transfusion products. <i>American Journal of Veterinary Research</i> , 2012 , 73, 2001-6	1.1	20
85	Selective absorption of carotenoids in the common green iguana (<i>Iguana iguana</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002 , 132, 513-8	2.6	20
84	Vitamin A excreted in the urine of canines is associated with a Tamm-Horsfall like protein. <i>Veterinary Research</i> , 2002 , 33, 299-311	3.8	19
83	Factors that influence retinol-binding protein 4-transthyretin interaction are not altered in overweight subjects and overweight subjects with type 2 diabetes mellitus. <i>Metabolism: Clinical and Experimental</i> , 2009 , 58, 1386-92	12.7	18
82	Modulation of cytokine production by low and high retinoid diets in ovalbumin-sensitized mice. <i>International Journal for Vitamin and Nutrition Research</i> , 2004 , 74, 279-84	1.7	18
81	Cats absorb beta-carotene, but it is not converted to vitamin A. <i>Journal of Nutrition</i> , 2002 , 132, 1610S-2S	4.1	18
80	Fasting and lactation effect fat-soluble vitamin A and E levels in blood and their distribution in tissue of grey seals (<i>Halichoerus grypus</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002 , 131, 901-8	2.6	18
79	Plasma transport and tissue distribution of beta-carotene, vitamin A and retinol-binding protein in domestic cats. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2001 , 130, 849-56	2.6	18
78	Association of retinol binding protein 4 and transthyretin with triglyceride levels and insulin resistance in rural thais with high type 2 diabetes risk. <i>BMC Endocrine Disorders</i> , 2018 , 18, 26	3.3	17
77	Quantification of vitamin a in palm oil using a fast and simple portable device: method validation and comparison to high-performance liquid chromatography. <i>International Journal for Vitamin and Nutrition Research</i> , 2011 , 81, 335-42	1.7	17
76	Role of vitamin A elimination or supplementation diets during postnatal development on the allergic sensitisation in mice. <i>Molecular Nutrition and Food Research</i> , 2007 , 51, 1173-81	5.9	17
75	Physical activity, antioxidant status, and protein modification in adolescent athletes. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 1131-9	1.2	16
74	Age-associated and breed-associated variations in haematological and biochemical variables in young labrador retriever and miniature schnauzer dogs. <i>Veterinary Record Open</i> , 2016 , 3, e000166	1.4	15
73	Surface enhanced laser desorption/ionization-time of flight-mass spectrometry analysis in complex food and biological systems. <i>Molecular Nutrition and Food Research</i> , 2005 , 49, 1104-11	5.9	15
72	Effect of dietary beta-carotene on the accumulation of beta-carotene and vitamin A in plasma and tissues of gilts. <i>Reproduction, Nutrition, Development</i> , 2001 , 41, 47-55		15
71	Effects of fasting and lactation on blood chemistry and urine composition in the grey seal (<i>Halichoerus grypus</i>). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1993 , 105, 353-7		15

70	Post-translational modifications of transthyretin affect the triiodonine-binding potential. <i>Journal of Cellular and Molecular Medicine</i> , 2015 , 19, 359-70	5.6	14
69	Excretion of vitamin A in urine of women during normal pregnancy and pregnancy complications. <i>Annals of Nutrition and Metabolism</i> , 2004 , 48, 357-64	4.5	14
68	Retinol and retinyl ester responses in the blood plasma and urine of dogs after a single oral dose of vitamin A. <i>Journal of Nutrition</i> , 2002 , 132, 1673S-5S	4.1	14
67	First trimester concentrations of the TTR-RBP4-retinol complex components as early markers of insulin-treated gestational diabetes mellitus. <i>Clinical Chemistry and Laboratory Medicine</i> , 2015 , 53, 1643-51	5.9	13
66	Fatty acid composition of serum lipid classes in mice following allergic sensitisation with or without dietary docosahexaenoic acid-enriched fish oil substitution. <i>British Journal of Nutrition</i> , 2008 , 99, 1239-46	3.6	13
65	Regulation of expression of the retinoic acid metabolizing enzyme CYP26A1 in uteri of ovariectomized mice after treatment with ovarian steroid hormones. <i>Molecular Reproduction and Development</i> , 2007 , 74, 258-64	2.6	13
64	Distribution of vitamin A, retinol-binding protein, cellular retinoic acid-binding protein I, and retinoid X receptor beta in the porcine uterus during early gestation. <i>Biology of Reproduction</i> , 1999 , 61, 906-11	3.9	13
63	Vitamin E and fatty acids in the grey seal (<i>Halichoerus grypus</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1990 , 159, 649-654	2.2	13
62	C-reactive protein concentrations in serum of dogs with naturally occurring renal disease. <i>Journal of Veterinary Diagnostic Investigation</i> , 2011 , 23, 710-5	1.5	12
61	Accumulation of selected carotenoids, alpha-tocopherol and retinol in human ovarian carcinoma ascitic fluid. <i>Annals of Nutrition and Metabolism</i> , 2004 , 48, 241-5	4.5	12
60	Alteration of Transthyretin Microheterogeneity in Serum of Multiple Trauma Patients. <i>Biomarker Insights</i> , 2007 , 2, 117727190700200	3.5	11
59	Antioxidants modulate the IL-6 induced inhibition of negative acute-phase protein secretion in HepG2 cells. <i>Cell Biochemistry and Function</i> , 2008 , 26, 95-101	4.2	11
58	High-normal C-reactive protein levels do not affect the vitamin A transport complex in serum of children and adolescents with type 1 diabetes. <i>Pediatric Research</i> , 2007 , 62, 741-5	3.2	11
57	Regulation of expression of the retinoic acid-synthesising enzymes retinaldehyde dehydrogenases in the uteri of ovariectomised mice after treatment with oestrogen, gestagen and their combination. <i>Reproduction, Fertility and Development</i> , 2006 , 18, 339-45	1.8	11
56	Automated solid-phase extraction and liquid chromatographic method for retinoid determination in biological samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003 , 798, 309-16	3.2	11
55	Characterisation of protein microheterogeneity and protein complexes using on-chip immunoaffinity purification-mass spectrometry. <i>Briefings in Functional Genomics & Proteomics</i> , 2005 , 4, 7-15		11
54	Modulation of absorption of beta-carotene and tissue accumulation of beta-carotene and vitamin A by different surfactants in rats. <i>Annals of Nutrition and Metabolism</i> , 2002 , 46, 200-4	4.5	11
53	<i>Caenorhabditis elegans</i> as a model system to study post-translational modifications of human transthyretin. <i>Scientific Reports</i> , 2016 , 6, 37346	4.9	10

52	Association of Thr420Lys polymorphism in DBP gene with fat-soluble vitamins and low radial bone mineral density in postmenopausal Thai women. <i>Biomarkers in Medicine</i> , 2012 , 6, 103-8	2.3	10
51	Retinol binding protein 4 and retinol in steatotic and nonsteatotic rat livers in the setting of partial hepatectomy under ischemia/reperfusion. <i>Liver Transplantation</i> , 2012 , 18, 1198-208	4.5	10
50	Low plasma Tocopherol concentrations and adverse clinical outcomes in diabetic hemodialysis patients. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2013 , 8, 452-8	6.9	10
49	Serum carotenoids and atopy among children of different ethnic origin living in Germany. <i>Pediatric Allergy and Immunology</i> , 2010 , 21, 1072-5	4.2	10
48	The ferret as a model for vitamin A metabolism in carnivores. <i>Journal of Nutrition</i> , 2002 , 132, 1787S-9S	4.1	10
47	Vitamin A, carotenoid and vitamin E plasma concentrations in children from Laos in relation to sex and growth failure. <i>Nutrition Journal</i> , 2003 , 2, 17	4.3	10
46	Adolescent health in rural Ghana: A cross-sectional study on the co-occurrence of infectious diseases, malnutrition and cardio-metabolic risk factors. <i>PLoS ONE</i> , 2017 , 12, e0180436	3.7	10
45	Structural modifications of serum transthyretin in rats during protein-energy malnutrition. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3270-4	2.2	9
44	Characterisation of transthyretin and retinol-binding protein in plasma and cerebrospinal fluid of dogs. <i>Veterinary Journal</i> , 2006 , 171, 451-5	2.5	9
43	Vitamin A: potential misclassification of vitamin A status among patients with type 2 diabetes and hypertension in urban Ghana. <i>American Journal of Clinical Nutrition</i> , 2015 , 102, 207-14	7	8
42	Vitamin D-binding protein and its polymorphisms as a predictor for metabolic syndrome. <i>Biomarkers in Medicine</i> , 2018 , 12, 465-473	2.3	8
41	Validation of a new point-of-care assay for determination of β carotene concentration in bovine whole blood and plasma. <i>Veterinary Clinical Pathology</i> , 2012 , 41, 119-22	1	8
40	Relationship between urinary Tamm-Horsfall protein excretion and renal function in dogs with naturally occurring renal disease. <i>Veterinary Clinical Pathology</i> , 2014 , 43, 261-5	1	8
39	Effect of renal replacement therapy on retinol-binding protein 4 isoforms. <i>Clinica Chimica Acta</i> , 2009 , 401, 46-50	6.2	8
38	Safety evaluation of vitamin A in growing dogs. <i>British Journal of Nutrition</i> , 2012 , 108, 1800-9	3.6	8
37	Great apes show highly selective plasma carotenoids and have physiologically high plasma retinyl esters compared to humans. <i>American Journal of Physical Anthropology</i> , 2006 , 131, 236-42	2.5	8
36	Identification of 14-hydroxy-retro-retinol and 4-hydroxy-retinol as endogenous retinoids in rats throughout neonatal development. <i>Life Sciences</i> , 2005 , 76, 1613-22	6.8	8
35	Impact of Increasing Dietary Calcium Levels on Calcium Excretion and Vitamin D Metabolites in the Blood of Healthy Adult Cats. <i>PLoS ONE</i> , 2016 , 11, e0149190	3.7	8

34	Lutein Specific Relationships among Some Spectrophotometric and Colorimetric Parameters of Chicken Egg Yolk. <i>Journal of Poultry Science</i> , 2017 , 54, 271-277	1.6	7
33	Does N-acetylcysteine modulate post-translational modifications of transthyretin in hemodialysis patients?. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 1166-72	8.4	7
32	Transthyretin predicts cardiovascular outcome in hemodialysis patients with type 2 diabetes. <i>Diabetes Care</i> , 2012 , 35, 2365-72	14.6	7
31	Distribution of endogenous retinoids, retinoid binding proteins (RBP, CRABPI) and nuclear retinoid X receptor beta (RXRbeta) in the porcine embryo. <i>Reproduction, Nutrition, Development</i> , 2002 , 42, 285-94		7
30	Retinoid concentrations in the mouse during postnatal development and after maternal vitamin A supplementation. <i>Annals of Nutrition and Metabolism</i> , 2005 , 49, 333-41	4.5	7
29	Effect of vitamin A supplementation on the urinary retinol excretion in very low birth weight infants. <i>European Journal of Pediatrics</i> , 2016 , 175, 365-72	4.1	6
28	Urinary vitamin A excretion in very low birth weight infants. <i>Pediatric Nephrology</i> , 2009 , 24, 61-6	3.2	6
27	Genetic differences in the serum proteome of horses, donkeys and mules are detectable by protein profiling. <i>British Journal of Nutrition</i> , 2011 , 106 Suppl 1, S170-3	3.6	6
26	Transfer of fat-soluble vitamins and PCBs from mother to pups in grey seals (<i>Halichoerus grypus</i>). <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1994 , 109, 111-117		6
25	The relative dose response test based on retinol-binding protein 4 is not suitable to assess vitamin A status in very low birth weight infants. <i>Neonatology</i> , 2014 , 105, 155-60	4	5
24	Influence of hormone replacement therapy on proteomic pattern in serum of postmenopausal women. <i>Maturitas</i> , 2005 , 51, 334-42	5	5
23	Validation of blood vitamin A concentrations in cattle: comparison of a new cow-side test (iCheck [®] FLUORO) with high-performance liquid chromatography (HPLC). <i>BMC Veterinary Research</i> , 2017 , 13, 126 ²⁻⁷		4
22	Vitamin A metabolism is changed in donors after living-kidney transplantation: an observational study. <i>Lipids in Health and Disease</i> , 2011 , 10, 231	4.4	4
21	CYP26A1-specific antagonist influence on embryonic implantation, gene expression and endogenous retinoid concentration in rats. <i>Reproductive Toxicology</i> , 2010 , 30, 446-51	3.4	4
20	Alteration of transthyretin microheterogeneity in serum of multiple trauma patients. <i>Biomarker Insights</i> , 2007 , 2, 299-306	3.5	4
19	Physical and Chemical Quality of Eggs from Commercial Chickens in Bangladesh. <i>International Journal of Poultry Science</i> , 2017 , 16, 221-227	0.3	4
18	Low breastmilk vitamin A concentration is prevalent in rural Ethiopia. <i>European Journal of Clinical Nutrition</i> , 2019 , 73, 1110-1116	5.2	4
17	Technical note: Rapid field test for the quantification of vitamin E, β -carotene, and vitamin A in whole blood and plasma of dairy cattle. <i>Journal of Dairy Science</i> , 2019 , 102, 11744-11750	4	3

16	Energy intake, growth rate and body composition of young Labrador Retrievers and Miniature Schnauzers fed different dietary levels of vitamin A. <i>British Journal of Nutrition</i> , 2014 , 111, 2104-11	3.6	3
15	Plasma concentration of β -tocopherol in different free-ranging birds of prey. <i>European Journal of Wildlife Research</i> , 2011 , 57, 1043-1049	2	3
14	Analyses of the correlation between dermal and blood carotenoids in female cattle by optical methods. <i>Journal of Biomedical Optics</i> , 2012 , 18, 061219	3.5	3
13	First trimester TTR-RBP4-ROH complex and angiogenic factors in the prediction of small for gestational age infant outcome. <i>Archives of Gynecology and Obstetrics</i> , 2017 , 295, 1157-1165	2.5	2
12	Increased antioxidant capacity in the plasma of dogs after a single oral dosage of tocotrienols. <i>British Journal of Nutrition</i> , 2011 , 106 Suppl 1, S116-9	3.6	2
11	Proteomic distinction between humans and great apes based on plasma transthyretin microheterogeneity. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2007 , 2, 144-9	2	2
10	Concentration of carotenoids, retinol and alpha-tocopherol in plasma of six microchiroptera species. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2007 , 147, 492-7	2.3	2
9	Mechanisms involved in the intestinal digestion and absorption of dietary vitamin A. <i>Journal of Nutrition</i> , 2002 , 132, 324-5	4.1	2
8	Influence of hepatic load from far-off dry period to early postpartum period on the first postpartum ovulation and accompanying subsequent fertility in dairy cows. <i>Journal of Reproduction and Development</i> , 2016 , 62, 289-95	2.1	2
7	Urinary protein profiling with surface-enhanced laser desorption/ionization time-of-flight mass spectrometry in ETB receptor-deficient rats. <i>Canadian Journal of Physiology and Pharmacology</i> , 2008 , 86, 566-70	2.4	1
6	Modification of aluminum chips for LDI mass spectrometry of proteins. <i>Journal of Mass Spectrometry</i> , 2007 , 42, 1504-13	2.2	1
5	Zinc protoporphyrin levels in COVID-19 are indicative of iron deficiency and potential predictor of disease severity. <i>PLoS ONE</i> , 2022 , 17, e0262487	3.7	1
4	Determination of lipid profiles in serum of obese ponies before and after weight reduction by using multi-one-dimensional thin-layer chromatography. <i>Research in Veterinary Science</i> , 2018 , 117, 111-117	2.5	1
3	Inadequate Attempts to Measure the Microheterogeneity of Transthyretin by Low-Resolution Mass Spectrometry - Reply. <i>Clinical Chemistry</i> , 2005 , 51, 1300-1301	5.5	0
2	Entzündungen führen infolge der Akute-Phase-Reaktion zu einem funktionellen Mangel an Retinol, β -Tocopherol und Carotinoiden. <i>Ernährung & Medizin</i> , 2006 , 21, 77-81	0	
1	Carotenoid Status of Poultry Egg under Different Feeding System in Bangladesh. <i>International Journal of Poultry Science</i> , 2017 , 16, 228-232	0.3	