Josef Khrle

List of Publications by Year in Descending Order

263 papers	12,415 citations	60 h-index	99 g-index
324 ext. papers	13,822 ext. citations	5.1 avg, IF	6.42 L-index

#	Paper	IF	Citations
263	Tentative Application of a Streamlined Protocol to Determine Organ-Specific Regulations of Deiodinase 1 and Dehalogenase Activities as Readouts of the Hypothalamus-Pituitary-Thyroid-Periphery-Axis.. *Frontiers in Toxicology*, **2022**, 4, 822993	1.6	
262	Changes in Thyroid Metabolites after Liothyronine Administration: A Secondary Analysis of Two Clinical Trials That Incorporated Pharmacokinetic Data. *Metabolites*, **2022**, 12, 476	5.6	
261	Selenium in Endocrinology-Selenoprotein-Related Diseases, Population Studies, and Epidemiological Evidence. *Endocrinology*, **2021**, 162,	4.8	7
260	Perinatal exposure to the thyroperoxidase inhibitors methimazole and amitrole perturbs thyroid hormone system signaling and alters motor activity in rat offspring. *Toxicology Letters*, **2021**, 354, 44-55	4.4	2
259	Obesity and Pregnancy. Guideline of the German Society of Gynecology and Obstetrics (S3-Level, AWMF Registry No. 015-081, June 2019). *Geburtshilfe Und Frauenheilkunde*, **2021**, 81, 279-303	2	2
258	Comparative Analysis of the Effects of Long-Term 3,5-diiodothyronine Treatment on the Murine Hepatic Proteome and Transcriptome Under Conditions of Normal Diet and High-Fat Diet. *Thyroid*, **2021**, 31, 1135-1146	6.2	3
257	Thyroid hormone system disrupting chemicals. *Best Practice and Research in Clinical Endocrinology and Metabolism*, **2021**, 35, 101562	6.5	5
256	Testing for heterotopia formation in rats after developmental exposure to selected in vitro inhibitors of thyroperoxidase. *Environmental Pollution*, **2021**, 283, 117135	9.3	4
255	Disruption of BMP Signaling Prevents Hyperthyroidism-Induced Bone Loss in Male Mice. *Journal of Bone and Mineral Research*, **2020**, 35, 2058-2069	6.3	4
254	Mass Spectrometry-Based Determination of Thyroid Hormones and Their Metabolites in Endocrine Diagnostics and Biomedical Research - Implications for Human Serum Diagnostics. *Experimental and Clinical Endocrinology and Diabetes*, **2020**, 128, 358-374	2.3	2
253	CD5L Constitutes a Novel Biomarker for Integrated Hepatic Thyroid Hormone Action. *Thyroid*, **2020**, 30, 908-923	6.2	3
252	Endocrine, Metabolic and Pharmacological Effects of Thyronamines (TAM), Thyroacetic Acids (TA) and Thyroid Hormone Metabolites (THM) - Evidence from in vitro, Cellular, Experimental Animal and Human Studies. *Experimental and Clinical Endocrinology and Diabetes*, **2020**, 128, 401-413	2.3	4
251	Removing Critical Gaps in Chemical Test Methods by Developing New Assays for the Identification of Thyroid Hormone System-Disrupting Chemicals-The ATHENA Project. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	17
250	Adversity Considerations for Thyroid Follicular Cell Hypertrophy and Hyperplasia in Nonclinical Toxicity Studies: Results From the 6th ESTP International Expert Workshop. *Toxicologic Pathology*, **2020**, 48, 920-938	2.1	5
249	Lack of the Thyroid Hormone Transporter Mct8 in Osteoblast and Osteoclast Progenitors Increases Trabecular Bone in Male Mice. *Thyroid*, **2020**, 30, 329-342	6.2	2
248	The Colorful Diversity of Thyroid Hormone Metabolites. *European Thyroid Journal*, **2019**, 8, 115-129	4.2	34
247	A combined LC-MS/MS and LC-MS multi-method for the quantification of iodothyronines in human blood serum. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 5605-5616	4.4	11

246	3-Iodothyronamine-A Thyroid Hormone Metabolite With Distinct Target Profiles and Mode of Action. *Endocrine Reviews*, **2019**, 40, 602-630	27.2	24
245	The isoflavones genistein and daidzein increase hepatic concentration of thyroid hormones and affect cholesterol metabolism in middle-aged male rats. *Journal of Steroid Biochemistry and Molecular Biology*, **2019**, 190, 1-10	5.1	25
244	The Role of Dickkopf-1 in Thyroid Hormone-Induced Changes of Bone Remodeling in Male Mice. *Endocrinology*, **2019**, 160, 664-674	4.8	6
243	Association Between 3-Iodothyronamine (T1am) Concentrations and Left Ventricular Function in Chronic Heart Failure. *Journal of Clinical Endocrinology and Metabolism*, **2019**, 104, 1232-1238	5.6	7
242	3,5-T2-A Janus-Faced Thyroid Hormone Metabolite Exerts Both Canonical T3-Mimetic Endocrine and Intracrine Hepatic Action. *Frontiers in Endocrinology*, **2019**, 10, 787	5.7	9
241	Endocrine Disruptors and Thyroid Function **2019**, 787-792		
240	A Thyroid Hormone-Independent Molecular Fingerprint of 3,5-Diiodothyronine Suggests a Strong Relationship with Coffee Metabolism in Humans. *Thyroid*, **2019**, 29, 1743-1754	6.2	5
239	A combined LC-MS/MS and LC-MS3 multi-method for the quantification of iodothyronines in human blood serum **2019**, 411, 5605		1
238	A combined LC-MS/MS and LC-MS3 multi-method for the quantification of iodothyronines in human blood serum **2019**, 411, 5605		1
237	Aging Alters Phenotypic Traits of Thyroid Dysfunction in Male Mice With Divergent Effects on Complex Systems but Preserved Thyroid Hormone Action in Target Organs. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2019**, 74, 1162-1169	6.4	5
236	In vivo Effects of Repeated Thyronamine Administration in Male C57BL/6J Mice. *European Thyroid Journal*, **2018**, 7, 3-12	4.2	10
235	Micronutrient status assessment in humans: Current methods of analysis and future trends. *TrAC - Trends in Analytical Chemistry*, **2018**, 102, 110-122	14.6	21
234	3-Iodothyronamine reduces insulin secretion in vitro via a mitochondrial mechanism. *Molecular and Cellular Endocrinology*, **2018**, 460, 219-228	4.4	11
233	Canonical TSH Regulation of Cathepsin-Mediated Thyroglobulin Processing in the Thyroid Gland of Male Mice Requires Taar1 Expression. *Frontiers in Pharmacology*, **2018**, 9, 221	5.6	17
232	Effects of isoflavones on breast tissue and the thyroid hormone system in humans: a comprehensive safety evaluation. *Archives of Toxicology*, **2018**, 92, 2703-2748	5.8	37
231	Thyroid Hormones and Derivatives: Endogenous Thyroid Hormones and Their Targets. *Methods in Molecular Biology*, **2018**, 1801, 85-104	1.4	22
230	Relaxin-2 connecting peptide (pro-RLX2) levels in second trimester serum samples to predict preeclampsia. *Pregnancy Hypertension*, **2018**, 11, 124-128	2.6	4
229	The Effect of High Dose Isoflavone Supplementation on Serum Reverse T in Euthyroid Men With Type 2 Diabetes and Post-menopausal Women. *Frontiers in Endocrinology*, **2018**, 9, 698	5.7	7

228	Thyroid Hormone Metabolism **2018**, 420-428		
227	Vascular Endothelial Growth Factor (VEGF) Induced Downstream Responses to Transient Receptor Potential Vanilloid 1 (TRPV1) and 3-Iodothyronamine (3-TAM) in Human Corneal Keratocytes. *Frontiers in Endocrinology*, **2018**, 9, 670	5.7	8
226	TRPM8 Activation via 3-Iodothyronamine Blunts VEGF-Induced Transactivation of TRPV1 in Human Uveal Melanoma Cells. *Frontiers in Pharmacology*, **2018**, 9, 1234	5.6	7
225	Molecular features of the L-type amino acid transporter 2 determine different import and export profiles for thyroid hormones and amino acids. *Molecular and Cellular Endocrinology*, **2017**, 443, 163-174	4.4	9
224	Sex-specific and inter-individual differences in biomarkers of selenium status identified by a calibrated ELISA for selenoprotein P. *Redox Biology*, **2017**, 11, 403-414	11.3	58
223	Avoiding the pitfalls when quantifying thyroid hormones and their metabolites using mass spectrometric methods: The role of quality assurance. *Molecular and Cellular Endocrinology*, **2017**, 458, 44-56	4.4	19
222	Quantification of Relaxin-2 Connecting Peptide (Pro-RLX2) in Human Blood Samples. *journal of applied laboratory medicine, The*, **2017**, 2, 322-334	2	1
221	A validated LC-MS/MS method for cellular thyroid hormone metabolism: Uptake and turnover of mono-iodinated thyroid hormone metabolites by PCCL3 thyrocytes. *PLoS ONE*, **2017**, 12, e0183482	3.7	11
220	Sex-specific phenotypes of hyperthyroidism and hypothyroidism in aged mice. *Biology of Sex Differences*, **2017**, 8, 38	9.3	14
219	Sclerostin Blockade and Zoledronic Acid Improve Bone Mass and Strength in Male Mice With Exogenous Hyperthyroidism. *Endocrinology*, **2017**, 158, 3765-3777	4.8	10
218	BMPs as new insulin sensitizers: enhanced glucose uptake in mature 3T3-L1 adipocytes via PPAR and GLUT4 upregulation. *Scientific Reports*, **2017**, 7, 17192	4.9	26
217	Noncanonical thyroid hormone signaling mediates cardiometabolic effects in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E11323-E11332	11.5	53
216	Aminoglycoside-driven biosynthesis of selenium-deficient Selenoprotein P. *Scientific Reports*, **2017**, 7, 4391	4.9	13
215	3-Iodothyronamine Decreases Expression of Genes Involved in Iodide Metabolism in Mouse Thyroids and Inhibits Iodide Uptake in PCCL3 Thyrocytes. *Thyroid*, **2017**, 27, 11-22	6.2	18
214	Restoration of type 1 iodothyronine deiodinase expression in renal cancer cells downregulates oncoproteins and affects key metabolic pathways as well as anti-oxidative system. *PLoS ONE*, **2017**, 12, e0190179	3.7	14
213	Selenium and Endocrine Tissues **2016**, 389-400		2
212	High Variability of Insulin Sensitivity in Closely Related Obese Mouse Inbred Strains. *Experimental and Clinical Endocrinology and Diabetes*, **2016**, 124, 519-528	2.3	3
211	Selenoprotein Gene Nomenclature. *Journal of Biological Chemistry*, **2016**, 291, 24036-24040	5.4	147

210	Thyroid hormone and its metabolites in relation to quality of life in patients treated for differentiated thyroid cancer. *Clinical Endocrinology*, **2016**, 85, 781-788	3.4	28
209	High levels of thyroid-stimulating hormone are associated with aortic wall thickness in the general population. *European Radiology*, **2016**, 26, 4490-4496	8	5
208	3,5-T2 alters murine genes relevant for xenobiotic, steroid, and thyroid hormone metabolism. *Journal of Molecular Endocrinology*, **2016**, 56, 311-23	4.5	23
207	3-Iodothyronamine increases transient receptor potential melastatin channel 8 (TRPM8) activity in immortalized human corneal epithelial cells. *Cellular Signalling*, **2016**, 28, 136-147	4.9	25
206	Selenoprotein P and Selenium Distribution in Mammals **2016**, 261-274		7
205	Differential Modulation of Adrenergic Receptor Signaling by Octopamine, Tyramine, Phenylethylamine, and 3-Iodothyronamine **2016**, 63-81		1
204	Few Amino Acid Exchanges Expand the Substrate Spectrum of Monocarboxylate Transporter 10. *Molecular Endocrinology*, **2016**, 30, 796-808		14
203	A Nonradioactive DEHAL Assay for Testing Substrates, Inhibitors, and Monitoring Endogenous Activity. *Endocrinology*, **2016**, 157, 4516-4525	4.8	9
202	Minireview: Insights Into the Structural and Molecular Consequences of the TSH-Mutation C105Vfs114X. *Molecular Endocrinology*, **2016**, 30, 954-64		8
201	Sex-specific phenotypes of hyperthyroidism and hypothyroidism in mice. *Biology of Sex Differences*, **2016**, 7, 36	9.3	22
200	Thyroid hormone status defines brown adipose tissue activity and browning of white adipose tissues in mice. *Scientific Reports*, **2016**, 6, 38124	4.9	48
199	Silychristin, a Flavonolignan Derived From the Milk Thistle, Is a Potent Inhibitor of the Thyroid Hormone Transporter MCT8. *Endocrinology*, **2016**, 157, 1694-701	4.8	32
198	Factors impacting the aminoglycoside-induced UGA stop codon readthrough in selenoprotein translation. *Journal of Trace Elements in Medicine and Biology*, **2016**, 37, 104-110	4.1	10
197	Thyronamines and Derivatives: Physiological Relevance, Pharmacological Actions, and Future Research Directions. *Thyroid*, **2016**, 26, 1656-1673	6.2	56
196	Circulating 3-T1AM and 3,5-T2 in Critically Ill Patients: A Cross-Sectional Observational Study. *Thyroid*, **2016**, 26, 1674-1680	6.2	20
195	Chemical Hybridization of Glucagon and Thyroid Hormone Optimizes Therapeutic Impact for Metabolic Disease. *Cell*, **2016**, 167, 843-857.e14	56.2	114
194	Efficacy of protocols for induction of chronic hyperthyroidism in male and female mice. *Endocrine*, **2016**, 54, 47-54	4	12
193	Structural insights into thyroid hormone transport mechanisms of the L-type amino acid transporter 2. *Molecular Endocrinology*, **2015**, 29, 933-42		18

192	The Effects of Thyroid Hormones on Gene Expression of Acyl-Coenzyme A Thioesterases in Adipose Tissue and Liver of Mice. *European Thyroid Journal*, **2015**, 4, 59-66	4.2	8
191	Hyperthyroidism and Hypothyroidism in Male Mice and Their Effects on Bone Mass, Bone Turnover, and the Wnt Inhibitors Sclerostin and Dickkopf-1. *Endocrinology*, **2015**, 156, 3517-27	4.8	37
190	Biosynthesis of 3-Iodothyronamine From T4 in Murine Intestinal Tissue. *Endocrinology*, **2015**, 156, 4356-64	4.8	52
189	Chronic Kidney Disease Distinctly Affects Relationship Between Selenoprotein P Status and Serum Thyroid Hormone Parameters. *Thyroid*, **2015**, 25, 1091-6	6.2	13
188	An Improved Nonradioactive Screening Method Identifies Genistein and Xanthohumol as Potent Inhibitors of Iodothyronine Deiodinases. *Thyroid*, **2015**, 25, 962-8	6.2	39
187	Thyronamine induces TRPM8 channel activation in human conjunctival epithelial cells. *Cellular Signalling*, **2015**, 27, 315-25	4.9	30
186	Establishment of an Effective Radioiodide Thyroid Ablation Protocol in Mice. *European Thyroid Journal*, **2015**, 4, 74-80	4.2	8
185	Differences in Mouse Hepatic Thyroid Hormone Transporter Expression with Age and Hyperthyroidism. *European Thyroid Journal*, **2015**, 4, 81-6	4.2	18
184	Serum Thyrotropin Concentrations Are Not Associated with the Ankle-Brachial Index: Results from Three Population-Based Studies. *European Thyroid Journal*, **2015**, 4, 101-7	4.2	2
183	Involvement of the L-Type Amino Acid Transporter Lat2 in the Transport of 3,3RDiiodothyronine across the Plasma Membrane. *European Thyroid Journal*, **2015**, 4, 42-50	4.2	16
182	The Multitarget Ligand 3-Iodothyronamine Modulates Adrenergic Receptor 2 Signaling. *European Thyroid Journal*, **2015**, 4, 21-9	4.2	23
181	Lokalisation und Verteilung von Selenoprotein P im humanen Gehirn. *Perspectives in Science*, **2015**, 3, 9-11	0.8	
180	Establishment and characterization of a new ELISA for selenoprotein P. *Perspectives in Science*, **2015**, 3, 23-24	0.8	4
179	Selenium and the thyroid. *Current Opinion in Endocrinology, Diabetes and Obesity*, **2015**, 22, 392-401	4	75
178	A Nonradioactive Uptake Assay for Rapid Analysis of Thyroid Hormone Transporter Function. *Endocrinology*, **2015**, 156, 2739-45	4.8	17
177	3-iodothyronamine differentially modulates 2A-adrenergic receptor-mediated signaling. *Journal of Molecular Endocrinology*, **2015**, 54, 205-16	4.5	43
176	Quantitative Analysis of Thyroid Hormone Metabolites in Cell Culture Samples Using LC-MS/MS. *European Thyroid Journal*, **2015**, 4, 51-8	4.2	25
175	Testosterone and estradiol treatments differently affect pituitary-thyroid axis and liver deiodinase 1 activity in orchidectomized middle-aged rats. *Experimental Gerontology*, **2015**, 72, 85-98	4.5	19

174	Trace Amine-Associated Receptor 1 Localization at the Apical Plasma Membrane Domain of Fisher Rat Thyroid Epithelial Cells Is Confined to Cilia. *European Thyroid Journal*, **2015**, 4, 30-41	4.2	25
173	Urine Metabolomics by (1)H-NMR Spectroscopy Indicates Associations between Serum 3,5-T2 Concentrations and Intermediary Metabolism in Euthyroid Humans. *European Thyroid Journal*, **2015**, 4, 92-100	4.2	26
172	Nonthyroidal Illness Syndrome in Cardiac Illness Involves Elevated Concentrations of 3,5-Diiodothyronine and Correlates with Atrial Remodeling. *European Thyroid Journal*, **2015**, 4, 129-37	4.2	52
171	High T3, Low T4 Serum Levels in Mct8 Deficiency Are Not Caused by Increased Hepatic Conversion through Type I Deiodinase. *European Thyroid Journal*, **2015**, 4, 87-91	4.2	9
170	3,5-Diiodo-L-thyronine (3,5-t2) exerts thyromimetic effects on hypothalamus-pituitary-thyroid axis, body composition, and energy metabolism in male diet-induced obese mice. *Endocrinology*, **2015**, 156, 389-99	4.8	78
169	Translating pharmacological findings from hypothyroid rodents to euthyroid humans: is there a functional role of endogenous 3,5-T2?. *Thyroid*, **2015**, 25, 188-97	6.2	30
168	Inverse agonistic action of 3-iodothyronamine at the human trace amine-associated receptor 5. *PLoS ONE*, **2015**, 10, e0117774	3.7	53
167	Detection of 3,5-diiodothyronine in sera of patients with altered thyroid status using a new monoclonal antibody-based chemiluminescence immunoassay. *Thyroid*, **2014**, 24, 1350-60	6.2	55
166	Hepatic metabolite profiles in mice with a suboptimal selenium status. *Journal of Nutritional Biochemistry*, **2014**, 25, 914-22	6.3	13
165	Soy isoflavones interfere with thyroid hormone homeostasis in orchidectomized middle-aged rats. *Toxicology and Applied Pharmacology*, **2014**, 278, 124-34	4.6	23
164	Analysis of human TAAR8 and murine Taar8b mediated signaling pathways and expression profile. *International Journal of Molecular Sciences*, **2014**, 15, 20638-55	6.3	18
163	Thyroxine: beneficial for mutated TR receptors thwarting thyroid hormone action?. *Lancet Diabetes and Endocrinology,the*, **2014**, 2, 602-3	18.1	1
162	Selenium status in patients with autoimmune and non-autoimmune thyroid diseases from four European countries. *Expert Review of Endocrinology and Metabolism*, **2014**, 9, 685-692	4.1	6
161	Crystal structure of mammalian selenocysteine-dependent iodothyronine deiodinase suggests a peroxiredoxin-like catalytic mechanism. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10526-31	11.5	74
160	High serum thyrotropin levels are associated with retinal arteriolar narrowing in the general population. *Thyroid*, **2014**, 24, 1473-8	6.2	13
159	Transport of thyroid hormone in brain. *Frontiers in Endocrinology*, **2014**, 5, 98	5.7	55
158	Supplementieren oder nicht? Das Spurenelement Selen. *Perspectives in Medicine*, **2014**, 2, 72-78		
157	Selenite supplementation in euthyroid subjects with thyroid peroxidase antibodies. *Clinical Endocrinology*, **2014**, 80, 444-51	3.4	38

156	Function of thyroid hormone transporters in the central nervous system. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 3965-73	4	38
155	Mechanism-based testing strategy using in vitro approaches for identification of thyroid hormone disrupting chemicals. *Toxicology in Vitro*, **2013**, 27, 1320-46	3.6	143
154	Serum selenium is low in newly diagnosed GravesRdisease: a population-based study. *Clinical Endocrinology*, **2013**, 79, 584-90	3.4	57
153	Autoantibodies to the IGF1 receptor in GravesRorbitopathy. *Journal of Clinical Endocrinology and Metabolism*, **2013**, 98, 752-60	5.6	59
152	Evaluation of the association between persistent organic pollutants (POPs) and diabetes in epidemiological studies: a national toxicology program workshop review. *Environmental Health Perspectives*, **2013**, 121, 774-83	8.4	235
151	Selenium and the thyroid. *Current Opinion in Endocrinology, Diabetes and Obesity*, **2013**, 20, 441-8	4	50
150	Serum 25-hydroxyvitamin d and cancer risk in older adults: results from a large German prospective cohort study. *Cancer Epidemiology Biomarkers and Prevention*, **2013**, 22, 905-16	4	56
149	Se- and s-based thiouracil and methimazole analogues exert different inhibitory mechanisms on type 1 and type 2 deiodinases. *European Thyroid Journal*, **2013**, 2, 252-8	4.2	16
148	Strong associations of 25-hydroxyvitamin D concentrations with all-cause, cardiovascular, cancer, and respiratory disease mortality in a large cohort study. *American Journal of Clinical Nutrition*, **2013**, 97, 782-93	7	188
147	Does the aromatic L-amino acid decarboxylase contribute to thyronamine biosynthesis?. *Molecular and Cellular Endocrinology*, **2012**, 349, 195-201	4.4	34
146	Bone turnover and bone mineral density are independently related to selenium status in healthy euthyroid postmenopausal women. *Journal of Clinical Endocrinology and Metabolism*, **2012**, 97, 4061-70	5.6	64
145	Standardization of misleading immunoassay based 25-hydroxyvitamin D levels with liquid chromatography tandem-mass spectrometry in a large cohort study. *PLoS ONE*, **2012**, 7, e48774	3.7	38
144	Inhibition of xanthine oxidase reduces wasting and improves outcome in a rat model of cancer cachexia. *International Journal of Cancer*, **2012**, 131, 2187-96	7.5	42
143	Orchidectomy of middle-aged rats decreases liver deiodinase 1 and pituitary deiodinase 2 activity. *Journal of Endocrinology*, **2012**, 215, 247-56	4.7	19
142	Tyrosine kinase inhibitors noncompetitively inhibit MCT8-mediated iodothyronine transport. *Journal of Clinical Endocrinology and Metabolism*, **2012**, 97, E100-5	5.6	67
141	Identification of iopanoic acid as substrate of type 1 deiodinase by a novel nonradioactive iodide-release assay. *Endocrinology*, **2012**, 153, 2506-13	4.8	47
140	Thyroid function is maintained despite increased oxidative stress in mice lacking selenoprotein biosynthesis in thyroid epithelial cells. *Antioxidants and Redox Signaling*, **2012**, 17, 902-13	8.4	31
139	LC-MS/MS detection of thyroid hormone metabolites in tissue samples. *Expert Review of Endocrinology and Metabolism*, **2012**, 7, 511-513	4.1	2

138	Plasma bile acids are associated with energy expenditure and thyroid function in humans. *Journal of Clinical Endocrinology and Metabolism*, **2012**, 97, 535-42	5.6	49
137	Differential modulation of Beta-adrenergic receptor signaling by trace amine-associated receptor 1 agonists. *PLoS ONE*, **2011**, 6, e27073	3.7	42
136	Circulating levels of peroxiredoxin 4 as a novel biomarker of oxidative stress in patients with sepsis. *Shock*, **2011**, 35, 460-5	3.4	34
135	Aminoaciduria, but normal thyroid hormone levels and signalling, in mice lacking the amino acid and thyroid hormone transporter Slc7a8. *Biochemical Journal*, **2011**, 439, 249-55	3.8	50
134	Copeptin and peroxiredoxin-4 independently predict mortality in patients with nonspecific complaints presenting to the emergency department. *Academic Emergency Medicine*, **2011**, 18, 851-9	3.4	32
133	Comparison of different selenocompounds with respect to nutritional value vs. toxicity using liver cells in culture. *Journal of Nutritional Biochemistry*, **2011**, 22, 945-55	6.3	92
132	Selenium Transport in Mammals: Selenoprotein P and Its Receptors **2011**, 205-219		2
131	Insights into molecular properties of the human monocarboxylate transporter 8 by combining functional with structural information. *Thyroid Research*, **2011**, 4 Suppl 1, S4	2.4	21
130	Developmental and cell type-specific expression of thyroid hormone transporters in the mouse brain and in primary brain cells. *Glia*, **2011**, 59, 463-71	9	88
129	Evidence for extrathyroidal formation of 3-iodothyronamine in humans as provided by a novel monoclonal antibody-based chemiluminescent serum immunoassay. *Journal of Clinical Endocrinology and Metabolism*, **2011**, 96, 1864-72	5.6	74
128	Monocarboxylate transporter 8 deficiency: altered thyroid morphology and persistent high triiodothyronine/thyroxine ratio after thyroidectomy. *European Journal of Endocrinology*, **2011**, 165, 555-61	6.5	37
127	Thyronamines--past, present, and future. *Endocrine Reviews*, **2011**, 32, 64-80	27.2	100
126	Selenium status, thyroid volume, and multiple nodule formation in an area with mild iodine deficiency. *European Journal of Endocrinology*, **2011**, 164, 585-90	6.5	77
125	Increased risk of thyroid pathology in patients with thyroid hemiagenesis: results of a large cohort case-control study. *European Journal of Endocrinology*, **2010**, 162, 153-60	6.5	40
124	Essential molecular determinants for thyroid hormone transport and first structural implications for monocarboxylate transporter 8. *Journal of Biological Chemistry*, **2010**, 285, 28054-63	5.4	78
123	Effect of mutations of the human serpin protein corticosteroid-binding globulin on cortisol-binding, thermal and protease sensitivity. *Journal of Steroid Biochemistry and Molecular Biology*, **2010**, 120, 30-7	5.1	7
122	Proteomic approach reveals novel targets for retinoic acid-mediated therapy of thyroid carcinoma. *Molecular and Cellular Endocrinology*, **2010**, 325, 110-7	4.4	21
121	Immunoluminometric assay for quantification of peroxiredoxin 4 in human serum. *Clinica Chimica Acta*, **2010**, 411, 1258-63	6.2	19

120	Neuronal selenoprotein expression is required for interneuron development and prevents seizures and neurodegeneration. *FASEB Journal*, **2010**, 24, 844-52	0.9	154
119	Mutation of megalin leads to urinary loss of selenoprotein P and selenium deficiency in serum, liver, kidneys and brain. *Biochemical Journal*, **2010**, 431, 103-11	3.8	60
118	Midregional Proenkephalin A and N-terminal Protachykinin A are decreased in the cerebrospinal fluid of patients with dementia disorders and acute neuroinflammation. *Journal of Neuroimmunology*, **2010**, 221, 62-7	3.5	13
117	Xanthohumol, a prenylated chalcone from hops, modulates hepatic expression of genes involved in thyroid hormone distribution and metabolism. *Molecular Nutrition and Food Research*, **2010**, 54 Suppl 2, S225-35	5.9	22
116	Selenium supplementation fails to correct the selenoprotein synthesis defect in subjects with SBP2 gene mutations. *Thyroid*, **2009**, 19, 277-81	6.2	60
115	Retinoic acid-mediated down-regulation of ENO1/MBP-1 gene products caused decreased invasiveness of the follicular thyroid carcinoma cell lines. *Journal of Molecular Endocrinology*, **2009**, 42, 249-60	4.5	31
114	Neuronal 3,3,5-triiodothyronine (T3) uptake and behavioral phenotype of mice deficient in Mct8, the neuronal T3 transporter mutated in Allan-Herndon-Dudley syndrome. *Journal of Neuroscience*, **2009**, 29, 9439-49	6.6	143
113	Reduced serum selenoprotein P concentrations in German prostate cancer patients. *Cancer Epidemiology Biomarkers and Prevention*, **2009**, 18, 2386-90	4	23
112	Interference of endocrine disrupters with thyroid hormone receptor-dependent transactivation. *Toxicological Sciences*, **2009**, 110, 125-37	4.4	71
111	Surface translocation and tri-iodothyronine uptake of mutant MCT8 proteins are cell type-dependent. *Journal of Molecular Endocrinology*, **2009**, 43, 263-71	4.5	47
110	Down-regulation of the hepatic selenoprotein biosynthesis machinery impairs selenium metabolism during the acute phase response in mice. *FASEB Journal*, **2009**, 23, 1758-65	0.9	106
109	Selenium and thyroid. *Best Practice and Research in Clinical Endocrinology and Metabolism*, **2009**, 23, 815-27	4.5	136
108	Binding of Thyroxine to Pig Transthyretin, its cDNA Structure, and Other Properties. *FEBS Journal*, **2008**, 230, 977-986		1
107	Peroxides and peroxide-degrading enzymes in the thyroid. *Antioxidants and Redox Signaling*, **2008**, 10, 1577-92	8.4	55
106	Detection of stable N-terminal protachykinin A immunoreactivity in human plasma and cerebrospinal fluid. *Peptides*, **2008**, 29, 1201-6	3.8	12
105	Environment and endocrinology: the case of thyroidology. *Annales D'Endocrinologie*, **2008**, 69, 116-22	1.7	43
104	Thyronamines are isozyme-specific substrates of deiodinases. *Endocrinology*, **2008**, 149, 3037-45	4.8	65
103	V2 vasopressin receptor deficiency causes changes in expression and function of renal and hypothalamic components involved in electrolyte and water homeostasis. *American Journal of Physiology - Renal Physiology*, **2008**, 295, F1177-90	4.3	18

102	Hepatic selenoprotein P (SePP) expression restores selenium transport and prevents infertility and motor-incoordination in Sepp-knockout mice. *Biochemical Journal*, **2008**, 409, 741-9	3.8	117
101	Welcome to thyroid research. *Thyroid Research*, **2008**, 1, 1	2.4	3
100	Development of a validated liquid chromatography/tandem mass spectrometry method for the distinction of thyronine and thyronamine constitutional isomers and for the identification of new deiodinase substrates. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 3286-96	2.2	46
99	On the importance of selenium and iodine metabolism for thyroid hormone biosynthesis and human health. *Molecular Nutrition and Food Research*, **2008**, 52, 1235-46	5.9	164
98	New assay for the measurement of selenoprotein P as a sepsis biomarker from serum. *Journal of Trace Elements in Medicine and Biology*, **2008**, 22, 24-32	4.1	100
97	Development of a validated liquid chromatography/tandem mass spectrometry method for the distinction of thyronine and thyronamine constitutional isomers and for the identification of new deiodinase substrates **2008**, 22, 3286		1
96	Selenoproteins of the thyroid gland: expression, localization and possible function of glutathione peroxidase 3. *Biological Chemistry*, **2007**, 388, 1053-9	4.5	80
95	Thyroid hormone transporters in health and disease: advances in thyroid hormone deiodination. *Best Practice and Research in Clinical Endocrinology and Metabolism*, **2007**, 21, 173-91	6.5	50
94	Endocrine disruptors and the thyroid gland--a combined in vitro and in vivo analysis of potential new biomarkers. *Environmental Health Perspectives*, **2007**, 115 Suppl 1, 77-83	8.4	101
93	Effects of a 5-day treatment with the UV-filter octyl-methoxycinnamate (OMC) on the function of the hypothalamo-pituitary-thyroid function in rats. *Toxicology*, **2007**, 238, 192-9	4.4	70
92	Procalcitonin is elevated in the cerebrospinal fluid of patients with dementia and acute neuroinflammation. *Journal of Neuroimmunology*, **2007**, 189, 169-74	3.5	12
91	Neuronal and ependymal expression of selenoprotein P in the human brain. *Journal of Neural Transmission*, **2007**, 114, 877-84	4.3	70
90	The ultraviolet filter benzophenone 2 interferes with the thyroid hormone axis in rats and is a potent in vitro inhibitor of human recombinant thyroid peroxidase. *Endocrinology*, **2007**, 148, 2835-44	4.8	82
89	Hypothalamisch-hypophysäres System und Zielgewebe **2007**, 841-892		
88	Synthesis and metabolism of thyroid hormones is preferentially maintained in selenium-deficient transgenic mice. *Endocrinology*, **2006**, 147, 1306-13	4.8	65
87	Selenium and goiter prevalence in borderline iodine sufficiency. *European Journal of Endocrinology*, **2006**, 155, 807-12	6.5	34
86	Effects of isoflavonoids and other plant-derived compounds on the hypothalamus–pituitary–thyroid hormone axis. *Maturitas*, **2006**, 55, S14-S25	5	22
85	Proenkephalin A 119-159, a stable proenkephalin A precursor fragment identified in human circulation. *Peptides*, **2006**, 27, 1835-40	3.8	42

84	Genistein and other soya isoflavones are potent ligands for transthyretin in serum and cerebrospinal fluid. *British Journal of Nutrition*, **2006**, 95, 1171-6	3.6	50
83	Selenium-dependent pre- and posttranscriptional mechanisms are responsible for sexual dimorphic expression of selenoproteins in murine tissues. *Endocrinology*, **2006**, 147, 5883-92	4.8	105
82	Grundlagen der parakrinen, autokrinen und intrakrinen Regulation endokriner Organe **2006**, 3-24		
81	Selenoprotein expression in H□thle cell carcinomas and in the human H□thle cell carcinoma line XTC.UC1. *Thyroid*, **2005**, 15, 405-16	6.2	10
80	Selenium, the thyroid, and the endocrine system. *Endocrine Reviews*, **2005**, 26, 944-84	27.2	366
79	Hepatic deiodinase activity is dispensable for the maintenance of normal circulating thyroid hormone levels in mice. *Biochemical and Biophysical Research Communications*, **2005**, 337, 739-45	3.4	38
78	Selenium and the control of thyroid hormone metabolism. *Thyroid*, **2005**, 15, 841-53	6.2	110
77	Hepatically derived selenoprotein P is a key factor for kidney but not for brain selenium supply. *Biochemical Journal*, **2005**, 386, 221-6	3.8	163
76	Free-flow isoelectric focusing of proteins remaining in cell fragments following sonication of thyroid carcinoma cells. *Electrophoresis*, **2005**, 26, 2109-16	3.6	37
75	Xanthohumol stimulates iodide uptake in rat thyroid-derived FRTL-5 cells. *Molecular Nutrition and Food Research*, **2005**, 49, 832-6	5.9	16
74	Developmentally regulated thyroid hormone distributor proteins in marsupials, a reptile, and fish. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 288, R1264-72	3.2	36
73	Letter Re: Id1 gene expression in hyperplastic and neoplastic thyroid tissues. *Journal of Clinical Endocrinology and Metabolism*, **2005**, 90, 5906	5.6	9
72	Thyroid Hormone Metabolism **2004**, 480-489		
71	Contributions **2004**, 37-278		
70	Contribution of interleukin-12 to the pathogenesis of non-thyroidal illness. *Hormone and Metabolic Research*, **2004**, 36, 101-6	3.1	27
69	Human thyroid carcinoma cell lines show different retinoic acid receptor repertoires and retinoid responses. *European Journal of Endocrinology*, **2004**, 150, 547-56	6.5	32
68	Expression profiling and genetic alterations of the selenoproteins GI-GPx and SePP in colorectal carcinogenesis. *Nutrition and Cancer*, **2004**, 48, 6-14	2.8	99
67	Interleukin-18, a proinflammatory cytokine, contributes to the pathogenesis of non-thyroidal illness mainly via the central part of the hypothalamus-pituitary-thyroid axis. *European Journal of Endocrinology*, **2004**, 151, 497-502	6.5	24

66	CD82, and CD63 in thyroid cancer.. *International Journal of Molecular Medicine*, **2004**, 14, 517	4.4	0
65	Endocrine active compounds affect thyrotropin and thyroid hormone levels in serum as well as endpoints of thyroid hormone action in liver, heart and kidney. *Toxicology*, **2004**, 205, 95-102	4.4	124
64	Selenium and brain function: a poorly recognized liaison. *Brain Research Reviews*, **2004**, 45, 164-78		237
63	Association between mutations in a thyroid hormone transporter and severe X-linked psychomotor retardation. *Lancet, The*, **2004**, 364, 1435-7	40	517
62	Efficient selenium transfer from mother to offspring in selenoprotein-P-deficient mice enables dose-dependent rescue of phenotypes associated with selenium deficiency. *Biochemical Journal*, **2004**, 378, 21-6	3.8	88
61	Glutathione peroxidase isoforms as part of the local antioxidative defense system in normal and Barrett℞ esophagus. *International Journal of Cancer*, **2003**, 105, 300-4	7.5	46
60	Gene disruption discloses role of selenoprotein P in selenium delivery to target tissues. *Biochemical Journal*, **2003**, 370, 397-402	3.8	334
59	Selenium supplementation enhances low selenium levels and stimulates glutathione peroxidase activity in peripheral blood and distal colon mucosa in past and present carriers of colon adenomas. *Nutrition and Cancer*, **2003**, 46, 125-30	2.8	25
58	Clinical impact of retinoids in redifferentiation therapy of advanced thyroid cancer: final results of a pilot study. *European Journal of Nuclear Medicine and Molecular Imaging*, **2002**, 29, 775-82	8.8	136
57	A complex DNA-repeat structure within the Selenoprotein P promoter contains a functionally relevant polymorphism and is genetically unstable under conditions of mismatch repair deficiency. *European Journal of Human Genetics*, **2002**, 10, 499-504	5.3	39
56	Expression of telomerase genes in thyroid carcinoma **2002**, 21, 265		2
55	Thyroid hormone receptors and type I iodothyronine 5℞deiodinase activity of human thyroid toxic adenomas and benign cold nodules. *Experimental and Clinical Endocrinology and Diabetes*, **2002**, 110, 166-70	2.3	18
54	Proinflammatory cytokines inhibit the expression and function of human type I 5℞deiodinase in HepG2 hepatocarcinoma cells. *European Journal of Endocrinology*, **2002**, 146, 559-66	6.5	50
53	Iodothyronine deiodinases. *Methods in Enzymology*, **2002**, 347, 125-67	1.7	132
52	The impact of iron and selenium deficiencies on iodine and thyroid metabolism: biochemistry and relevance to public health. *Thyroid*, **2002**, 12, 867-78	6.2	216
51	Spectral karyotype analysis of colon cancer cell lines of the tumor suppressor and mutator pathway. *Cytogenetic and Genome Research*, **2002**, 98, 22-8	1.9	27
50	The promoter of the human sodium/iodide-symporter gene responds to retinoic acid. *Molecular and Cellular Endocrinology*, **2002**, 189, 145-55	4.4	41
49	Vitamine, Spurenelemente und Mineralstoffe **2002**,		3

48	Identification of an element within the promoter of human selenoprotein P responsive to transforming growth factor-beta. *FEBS Journal*, **2001**, 268, 6176-81		26
47	Modulation of selenoprotein P expression by TGF-beta(1) is mediated by Smad proteins. *BioFactors*, **2001**, 14, 135-42	6.1	20
46	Innovative strategies for the treatment of thyroid cancer. *European Journal of Endocrinology*, **2000**, 143, 15-24	6.5	47
45	Retinoic acid redifferentiation therapy for thyroid cancer. *Thyroid*, **2000**, 10, 393-406	6.2	115
44	Selenium in biology: facts and medical perspectives. *Biological Chemistry*, **2000**, 381, 849-64	4.5	204
43	Effects of proinflammatory cytokines on anterior pituitary 5Rdeiodinase type I and type II. *Journal of Endocrinology*, **2000**, 167, 505-15	4.7	54
42	Inverse mRNA expression of the selenocysteine-containing proteins GI-GPx and SeP in colorectal adenomas compared with adjacent normal mucosa. *Nutrition and Cancer*, **2000**, 37, 108-16	2.8	60
41	Regulation of CD97 protein in thyroid carcinoma. *Journal of Clinical Endocrinology and Metabolism*, **1999**, 84, 1104-9	5.6	49
40	Type 1 deiodinase is stimulated by iodothyronines and involved in thyroid hormone metabolism in human somatomammotroph GX cells. *European Journal of Endocrinology*, **1999**, 140, 367-70	6.5	8
39	The selenoprotein thioredoxin reductase is expressed in peripheral blood monocytes and THP1 human myeloid leukemia cells--regulation by 1,25-dihydroxyvitamin D3 and selenite. *BioFactors*, **1999**, 10, 329-38	6.1	30
38	The trace element selenium and the thyroid gland. *Biochimie*, **1999**, 81, 527-33	4.6	120
37	Local activation and inactivation of thyroid hormones: the deiodinase family. *Molecular and Cellular Endocrinology*, **1999**, 151, 103-19	4.4	279
36	Transforming growth factor-beta1 inhibits expression of selenoprotein P in cultured human liver cells. *FEBS Letters*, **1999**, 460, 23-6	3.8	28
35	Increased I-131 uptake in local recurrence and distant metastases after second treatment with retinoic acid. *Clinical Nuclear Medicine*, **1999**, 24, 849-51	1.7	6
34	Functional retinoid and thyroid hormone receptors in human thyroid-carcinoma cell lines and tissues. *International Journal of Cancer*, **1998**, 76, 368-76	7.5	26
33	Redifferentiation therapy with retinoids: therapeutic option for advanced follicular and papillary thyroid carcinoma. *World Journal of Surgery*, **1998**, 22, 569-74	3.3	111
32	Selenoproteins are expressed in fetal human osteoblast-like cells. *Biochemical and Biophysical Research Communications*, **1998**, 245, 101-7	3.4	64
31	Reverse transcriptase-polymerase chain reaction analysis of thyrocyte-relevant genes in fine-needle aspiration biopsies of the human thyroid. *Thyroid*, **1998**, 8, 981-7	6.2	24

30	Expression pattern of gastrointestinal selenoproteins--targets for selenium supplementation. *Nutrition and Cancer*, **1998**, 32, 64-70	2.8	35
29	Functional retinoid and thyroid hormone receptors in human thyroid-carcinoma cell lines and tissues **1998**, 76, 368		1
28	Cloning and characterization of the human selenoprotein P promoter. Response of selenoprotein P expression to cytokines in liver cells. *Journal of Biological Chemistry*, **1997**, 272, 29364-71	5.4	86
27	Consensus statement on lung cancer. Lung Cancer Panel. *European Journal of Cancer Prevention*, **1997**, 6, 316-22	2	6
26	Retinoic acid increases sodium/iodide symporter mRNA levels in human thyroid cancer cell lines and suppresses expression of functional symporter in nontransformed FRTL-5 rat thyroid cells. *Biochemical and Biophysical Research Communications*, **1997**, 240, 832-8	3.4	166
25	Structure of the human type I iodothyronine 5Rdeiodinase gene and localization to chromosome 1p32-p33. *Genomics*, **1997**, 42, 361-3	4.3	35
24	Local estradiol metabolism in osteoblast- and osteoclast-like cells. *Journal of Steroid Biochemistry and Molecular Biology*, **1997**, 61, 167-174	5.1	56
23	The promoter of the human type I 5Rdeiodinase gene--mapping of the transcription start site and identification of a DR+4 thyroid-hormone-responsive element. *FEBS Journal*, **1997**, 247, 288-97		57
22	Selected novel flavones inhibit the DNA binding or the DNA religation step of eukaryotic topoisomerase I. *Journal of Biological Chemistry*, **1996**, 271, 2262-70	5.4	170
21	Rapid stimulation of type I 5Rdeiodinase in rat pituitaries by 3,3R,5-triiodo-L-thyronine. *Molecular and Cellular Endocrinology*, **1995**, 108, 17-21	4.4	46
20	Expression and regulation of aromatase cytochrome P450 in THP 1 human myeloid leukaemia cells. *Molecular and Cellular Endocrinology*, **1995**, 110, 27-33	4.4	28
19	Binding of thyroxine to pig transthyretin, its cDNA structure, and other properties. *FEBS Journal*, **1995**, 230, 977-86		23
18	Topoisomerase I-inhibition enhances vitamin D-responsive expression of the receptor for lipopolysaccharide binding protein CD 14. *Biochemical and Biophysical Research Communications*, **1994**, 199, 531-9	3.4	11
17	Early adaptation of thyrotropin and thyroglobulin secretion to experimentally decreased iodine supply in man. *Metabolism: Clinical and Experimental*, **1992**, 41, 1093-6	12.7	69
16	Human thyrotropin receptor gene: expression in thyroid tumors and correlation to markers of thyroid differentiation and dedifferentiation. *Molecular and Cellular Endocrinology*, **1991**, 82, R7-12	4.4	109
15	Effect of biological alterations of type I 5Rdeiodinase activity on affinity labeled membrane proteins in rat liver and kidney. *Endocrinology*, **1990**, 126, 826-31	4.8	22
14	5RDeiodination in rat hepatocytes: effects of specific flavonoid inhibitors. *Endocrinology*, **1990**, 126, 1660-7	4.8	18
13	Flavonoid administration immediately displaces thyroxine (T4) from serum transthyretin, increases serum free T4, and decreases serum thyrotropin in the rat. *Endocrinology*, **1990**, 126, 2890-5	4.8	46

12	Identification of type I iodothyronine 5Rdeiodinase as a selenoenzyme. *Biochemical and Biophysical Research Communications*, **1990**, 173, 1143-9	3.4	317
11	Rapid effects of the flavonoid EMD 21388 on serum thyroid hormone binding and thyrotropin regulation in the rat. *Endocrinology*, **1989**, 125, 532-7	4.8	52
10	Thyroid hormone effect on rat heart mitochondrial proteins and affinity labeling with N-bromoacetyl-3,3R,5-triiodo-L-thyronine. Lack of direct effect on the adenine nucleotide translocase. *FEBS Letters*, **1989**, 255, 385-90	3.8	21
9	Circadian and pulsatile thyrotropin secretion in euthyroid man under the influence of thyroid hormone and glucocorticoid administration. *Journal of Clinical Endocrinology and Metabolism*, **1987**, 65, 83-8	5.6	149
8	Crystal structure of phlorizin and the iodothyronine deiodinase inhibitory activity of phloretin analogues. *Biochemical Pharmacology*, **1986**, 35, 2221-7	6	19
7	Subcellular localization of thyroxine-5-deiodinase in rat liver. *Journal of Endocrinological Investigation*, **1980**, 3, 73-6	5.2	9
6	Conversion of T3 and rT3 to 3,3RT2: pH dependency. *Clinica Chimica Acta*, **1978**, 90, 45-51	6.2	6
5	Darstellung von [14C]-P1,P5-Di(adenosin-5?-)pentaphosphat durch direkte Umsetzung von [14C]-Adenosin-5?-diphosphat mit aktiviertem Adenosin-?-triphosphat. *Justus Liebigs Annalen Der Chemie*, **1977**, 1977, 1160-1166		2
4	P1, P5-Bis-(5Radenosyl)pentaphosphate: is this adenylate kinase inhibitor substrate for mitochondrial processes?. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **1977**, 32, 786-91	1.7	2
3	3,5-Diiodo-l-Thyronine Stimulates Type 1 5?Deiodinase Activity in Rat Anterior Pituitaries in Vivo and in Reaggregate Cultures and GH3 Cells in Vitro		11
2	3,5-Diiodo-L-Thyronine (3,5-T2) Exerts Thyromimetic Effects on Hypothalamus-Pituitary-Thyroid Axis, Body Composition, and Energy Metabolism in Male Diet-Induced Obese Mice		1
1	Selen243-286		