

List of Publications

328. D. Auguin, J. Robert-Paganin, S. Réty, C. Kikuti, A. David, G. Theumer, A. W. Schmidt, H.-J. Knölker, A. Houdusse, *Nat. Commun.* **2024**, *15*, 4885: Omecamtiv Mecarbil and Mavacamten Target the Same Myosin Pocket Despite Opposite Effects in Heart Contraction.
327. R. Thoran, F. Puls, H.-J. Knölker, *Chem. Eur. J.* **2024**, *30*, e202303794: Synthesis of 1,1'-Bicarbazoles by Sequential Iron(III)- and Palladium(II)-Catalyzed Oxidative Coupling Reactions.
326. G. P. Lobo, R. Radhakrishnan, M. Leung, A. Gruesen, H.-J. Knölker, F. J. van Kuijk, S. R. Montezuma, *Adv. Exp. Med. Biol.* **2023**, *1415*, 499–505: In Silico Prediction of MYO1C-Rhodopsin Interactions and Its Significance in Protein Localization and Visual Function.
325. R. Thoran, T. Schuh, P. Holling, F. Puls, O. Kataeva, H.-J. Knölker, *Eur. J. Org. Chem.* **2023**, *26*, e202300591: Transition Metals in Organic Synthesis, Part 154. 2,2'-Bis(arylamino)-1,1'-biaryls as Building Blocks for the Synthesis of Dibenzo[*d,f*][1,3]diazepines, Dibenzo[*d,f*][1,3]diazepinones, and Dibenzo[*c,e*][1,2,7]thiadiazepine 6-oxides.
324. A. P. Gómez-Escribano, C. Mora-Martínez, M. Roca, D. S. Walker, J. Panadero, M. D. Sequedo, R. Saini, H.-J. Knölker, J. Blanca, J. Burguera, A. Lahoz, J. Cañizares, J. M. Millán, N. O. Burton, W. R. Schafer, R. P. Vázquez-Manrique, *EMBO Reports* **2023**, *24*, e55556: Changes in Lipid Metabolism Driven by Steroid Signalling Modulate Proteostasis in *C. elegans*.
323. T. Schuh, O. Kataeva, H.-J. Knölker, *Chem. Sci.* **2023**, *14*, 257–265: Transition Metals in Organic Synthesis, Part 153. μ -Oxo-bis[(octacosafuoro-*meso*-tetraphenylporphyrinato)iron(III)] – Synthesis, Crystal Structure, and Catalytic Activity in Oxidation Reactions.
322. R. F. Fritsche, T. Schuh, O. Kataeva, H.-J. Knölker, *Chem. Eur. J.* **2023**, *29*, e202203269: Transition Metals in Organic Synthesis, Part 152. Atroposelective Synthesis of 2,2'-Bis(arylamino)-1,1'-biaryls by Oxidative Iron(III)- and Phosphoric Acid-Catalyzed C–C Coupling of Diarylamines.
321. M. P. Rahelivao, I. Bauer, T. Lübken, O. Kataeva, A. Vehlow, N. Cordes, H.-J. Knölker, *Eur. J. Org. Chem.* **2022**, e202200809: First Synthesis, Confirmation of Stereochemistry, and Cytotoxic Activity of Oxyfungiformin.
320. G. Theumer, I. Bauer, A. Jäger, L. Schwark, H.-J. Knölker, *Eur. J. Org. Chem.* **2022**, e202200456: Transition Metals in Organic Synthesis, Part 151. Palladium-Catalyzed Synthesis of Alkylcarbazoles and Their Identification in Petroleum and Source Rocks.
319. R. Radhakrishnan, V. R. Dronamraju, M. Leung, A. Gruesen, A. K. Solanki, S. Walterhouse, H. Roehrich, G. Song, R. da Costa Monsanto, S. Cureoglu, R. Martin, A. A. Kondkar, F. J. van Kuijk, S. R. Montezuma, H.-J. Knölker, R. B. Hufnagel, G. P. Lobo, *Ophthalmic Genet.* **2022**, *43*, 285–300: The Role of Motor Proteins in Photoreceptor Protein Transport and Visual Function.
318. A. Purtsas, M. Rosenkranz, E. Dmitrieva, O. Kataeva, H.-J. Knölker, *Chem. Eur. J.* **2022**, *28*, e202104292: Transition Metals in Organic Synthesis, Part 150. Iron-Catalyzed Oxidative C–O and C–N Coupling Reactions Using Air as Sole Oxidant.
317. F. Puls, F. Seewald, V. Grinenko, H.-H. Klauß, H.-J. Knölker, *Chem. Eur. J.* **2021**, *27*, 16776–16787: Transition Metals in Organic Synthesis, Part 149. Mechanistic Studies on the Hexadecafluorophthalocyanine–Iron-Catalyzed Wacker-Type Oxidation of Olefins to Ketones.

316. D. Mishig, M. Gruner, T. Lübken, C. Ganbaatar, D. Regdel, H.-J. Knölker, *Sci. Rep.* **2021**, *11*, 13740: Isolation and Structure Elucidation of Pyridine Alkaloids from the Aerial Parts of the Mongolian Medicinal Plant *Caryopteris mongolica* Bunge.
315. A. K. Solanki, M. R. Biswal, S. Walterhouse, R. Martin, A. A. Kondkar, H.-J. Knölker, B. Rahman, E. Arif, S. Husain, S. R. Montezuma, D. Nihalani, G. P. Lobo, *Cells* **2021**, *10*, 1322: Loss of Motor Protein MYO1C Causes Rhodopsin Mislocation and Results in Impaired Visual Function.
314. A. Åslund, M. H. Bokhari, E. Wetterdal, R. Martin, H.-J. Knölker, T. Bengtsson, *Mol. Metab.* **2021**, *53*, 101247: Myosin 1c: A Novel Regulator of Glucose Uptake in Brown Adipocytes.
313. F. Puls, P. Linke, O. Kataeva, H.-J. Knölker, *Angew. Chem.* **2021**, *133*, 14202–14209; *Angew. Chem. Int. Ed.* **2021**, *60*, 14083–14090: Transition Metals in Organic Synthesis, Part 148. Iron-Catalyzed Wacker-type Oxidation of Olefins at Room Temperature with 1,3-Diketones or Neocuproine as Ligands.
312. M. Witting, U. Schmidt, H.-J. Knölker, *Anal. Bioanal. Chem.* **2021**, *413*, 2091–2102: UHPLC-IM-Q-ToFMS Analysis of Maradolipids, Found Exclusively in *Caenorhabditis elegans* Dauer Larvae.
311. H.-J. Knölker, *Sitzungsberichte der Sächsischen Akademie der Wissenschaften zu Leipzig – Mathematisch-naturwissenschaftliche Klasse*, S. Hirzel, Stuttgart/Leipzig, **2021**, Band 133, Heft 4, S. 1–30: Katalyse – Eine Renaissance der „Eisenzeit“?
310. S. Vellino, C. Oddou, P. Rivier, C. Boyault, E. Hiriart-Bryant, A. Kraut, R. Martin, Y. Coute, H.-J. Knölker, M. A. Valverde, C. Albigès-Rizo, O. Destaing, *J. Cell Biol.* **2021**, *220*, e201910079: Cross-Talk Between the Calcium Channel TRPV4 and Reactive Oxygen Species Interlocks Adhesive and Degradative Functions of Invadosomes.
309. S. Richter, R. Martin, H. O. Gutzeit, H.-J. Knölker, *Bioorg. Med. Chem.* **2021**, *30*, 115928: *In Vitro* and *In Vivo* Effects of Inhibitors on Actin and Myosin.
308. V. Lösle, O. Kataeva, H.-J. Knölker, *Synthesis* **2021**, *53*, 359–364: Transition Metals in Organic Synthesis, Part 147. First Total Synthesis and Investigation of the X-ray Crystal Structure of the Pyrano[3,2-*a*]carbazole Alkaloid Clausenalansine A.
307. V. Lösle, H.-J. Knölker, *Arkivoc* **2020**, *vii*, 192–200: Transition Metals in Organic Synthesis, Part 146. Synthesis of Indolo[2,3-*a*]carbazole via an Intramolecular McMurry Coupling.
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304. P. Spitzer, M. Walter, C. Göth, T. J. Oberstein, P. Linning, H.-J. Knölker, J. Kornhuber, J. M. Maler, *Front. Immunol.* **2020**, *11* 1967: Pharmacological Inhibition of Amyloidogenic APP Processing and Knock-Down of APP in Primary Human Macrophages Impairs the Secretion of Cytokines.

303. A. Purtsas, S. Stipurin, O. Kataeva, H.-J. Knölker, *Molecules* **2020**, *25*, 1608: Transition Metals in Organic Synthesis, Part 144. Iron-Catalyzed Synthesis, Structure, and Photophysical Properties of Tetraarylnaphthidines.
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299. E. Arif, A. K. Solanki, P. Srivastava, B. Rahman, B. R. Tash, L. B. Holzman, M. G. Janech, R. Martin, H.-J. Knölker, W. R. Fitzgibbon, P. Deng, M. N. Budisavljevic, W.-K. Syn, C. Wang, J. H. Lipschutz, S.-H. Kwon, D. Nihalani, *Kidney International* **2019**, *96*, 139–158: The Motor Protein Myo 1c Regulates Transforming Growth Factor- β -Signaling and Fibrosis in Podocytes.
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