

## Publikationen Prof. Dr. Herbert Riepl

### ZEITSCHRIFTENBEITRÄGE (PEER-REVIEWED)

#### 2020

Urmann, C.; Riepl, H. (2020): Semi-Synthetic Approach Leading to 8-Prenylnaringenin and 6-Prenylnaringenin: optimization of the Microwave-Assisted Demethylation of Xanthohumol Using Design of Experiments. *Molecules* 25 (17), S.4007. DOI: <https://doi.org/10.3390/molecules25174007>

Ritter, S.; Urmann, C.; Herzog, R.; Glaser, J.; Bieringer, S.; Geisberger, T.; Eisenreich, W.; Riepl, H. (2020): Where Is Bacosine in Commercially Available *Bacopa monnieri*? *Planta Medica* 86 (8), S.565-570. DOI: <https://doi.org/10.1055/a-1137-4289>

#### 2019

Bieler, L.; Vogl, M.; Kirchinger, M.; Urmann, C.; Riepl, H.; Bandtlow, C.; Klimaschewski, L.; Aigner, L.; Couillard-Després, S. (2019): The Prenylflavonoid ENDF1 Overrides Central Nervous System Growth Inhibitors and Facilitates Regeneration of DRG Neurons. *Frontiers in Cellular Neuroscience* 13 (332). DOI: <https://doi.org/10.3389/fncel.2019.00332>

Huber, V.; Riepl, H. (2019): Synthesis of Ether-Diols with Low Polarity from Long-Chained Fatty Alcohols for Use in Block Copolymers. *Journal of the American Oil Chemists' Society* 96 (4), S.433-442. DOI: <https://doi.org/10.1002/aocs.12197>

#### 2018

Venturelli, S.; Niessner, H.; Sinnberg, T.; Berger, A.; Burkard, M.; Urmann, C.; Donaubaue, K.; Böcker, A.; Leischner, C.; Riepl, H.; Frank, J.; Lauer, U.; Garbe, C.; Busch, C. (2018): 6- and 8-Prenylnaringenin, Novel Natural Histone Deacetylase Inhibitors Found in Hops, Exert Antitumor Activity on Melanoma Cells. *Cellular Physiology and Biochemistry* 51 (2), S.543-556. DOI: <https://doi.org/10.1159/000495275>

#### 2013

Firlbeck, D.; Faulstich, M.; Urmann, C.; Azaizeh, H.; Tafesh, A.; Riepl, H. (2013): Central composite design for optimal technology of concentrating vanillic acid using foam fractionation. *Separation and Purification Technology* 119, S.28-34. DOI: <https://doi.org/10.1016/j.seppur.2013.08.033>

Huber, T.; Firlbeck, D.; Riepl, H. (2013): Iridium-catalysed isomerising trialkylsilylation of methyl oleate. *Journal of Organometallic Chemistry* 744, S.144-148. DOI: <https://doi.org/10.1016/j.jorganchem.2013.06.002>

Oberbauer, E.; Urmann, C.; Steffenhagen, C.; Bieler, L.; Brunner, D.; Furtner, T.; Humpel, C.; Bäumer, B.; Bandtlow, C.; Couillard-Després, S.; Rivera, F.; Riepl, H.; Aigner, L. (2013): Chroman-like cyclic prenylflavonoids promote neuronal differentiation and neurite outgrowth and are neuroprotective. *Journal of Nutritional Biochemistry* 24 (11), S.1953-1962. DOI: <https://doi.org/10.1016/j.jnutbio.2013.06.005>

#### 2010

Riepl, H.; Pettrak, J.; Faulstich, M.; Herrmann, W. (2010): Self Metathesis of Fatty Alcohols and Amines to Provide Monomers for Polyester and Polyamide Products. *Macromolecular Symposia* 293 (1), S.39-42. DOI: <https://doi.org/10.1002/masy.200900041>

## 2009

Riepl, H.; Kellermann, M. (2009): Synthesis of 5,7-Dihydrodibenzo[b,f][1,7]naphthyridine-6,12-dione, an Unexpected Isolate from *Isatis tinctoria*. *Helvetica Chimica Acta* 92 (4), S.668-676. DOI: <https://doi.org/10.1002/hlca.200800337>

## 2008

Jesse, P.; Riepl, H.; Wieder, T.; Henze, G.; Prokop, A. (2008): A Synthetic Analogue of the Indigo Jeans Dye Tryptanthrin, NT1, Induces Apoptosis in Vitro, Ex Vivo and in Vivo in CD95-Dependent Manner in Pediatric Leukemia and Lymphoma Cells Sensitizing Malignant Cells to Cytostatic Drugs Via Downregulation of XIAP. *Blood* (American Society of Hematology) 112 (11), S.2630. DOI: <https://doi.org/10.1182/blood.V112.11.2630.2630>

Herrmann, W.; Rost, A.; Tosh, E.; Riepl, H.; Kühn, F. (2008): Super absorbers from renewable feedstock by catalytic oxidation. *Green Chemistry* 10 (4), S.442-446. DOI: <https://doi.org/10.1039/B717134J>

## 2007

Diller, R.; Riepl, H.; Rose, O.; Frias, C.; Henze, G.; Prokop, A. (2007): Ability of prenylflavanones present in hops to induce apoptosis in a human Burkitt lymphoma cell line. *Planta Medica* 73 (8), S.755-761. DOI: <https://doi.org/10.1055/s-2007-981545>

## 2005

Diller, R.; Riepl, H.; Rose, O.; Frias, C.; Henze, G.; Prokop, A. (2005): Synthesis of demethylxanthohumol, a new potent apoptosis-inducing agent from hops. *Chemistry & Biodiversity* 2 (10), S.1331-1337. DOI: <https://doi.org/10.1002/cbdv.200590105>

## 1993

Herrmann, W.; Anwander, R.; Riepl, H.; Scherer, W.; Whitaker, C. (1993): General synthesis and metal complexes of fused-ring bicyclic cyclopentadienes. *Organometallics* 12 (11), S.4342-4349. DOI: <https://doi.org/10.1021/om00035a020>

## 1990

Herrmann, W.; Kellner, J.; Riepl, H. (1990): Water soluble metal complexes and catalysts. III. New water soluble metal complexes of sulfonated triphenylphosphine (TPPTS): Mn, Fe, Ru, Co, Rh, Ir, Ni, Pd, Pt, Ag, Au. *Journal of organometallic chemistry* 389, S.103.

Herrmann, W.; Kulpe, J.; Kellner, J.; Riepl, H.; Bahrmann, H.; Konkol, W. (1990): Water-Soluble Metal Complexes of the Sulfonated Triphenylphosphane TPPTS: Preparation of the Pure Compounds and their Use in Catalysis. *Angewandte Chemie International Edition in English* 29 (4), S.391-393. DOI: <https://doi.org/10.1002/anie.199003911>

## BEITRÄGE IN MONOGRAFIEN, SAMMELWERKEN, SCHRIFTENREIHEN (PEER-REVIEWED)

### 2009

Diller, R.; Riepl, H.; Rose, O.; Frias, C.; Henze, G.; Prokop, A. (2009): Chapter 71: Desmethylxanthohumol from Hops, *Chemistry and Biological Effects. Beer in Health and Disease Prevention*, S.703-709. DOI: <https://doi.org/10.1016/B978-0-12-373891-2.00071-7>

## ZEITSCHRIFTENBEITRÄGE

### 2015

Kinzl, F.; Riepl, H. (2015): Synthesis of Terpene Diamines Based on Camphor-Derived Dinitriles. *Helvetica Chimica Acta* 98 (4), S.447-452. DOI: <https://doi.org/10.1002/hlca.201400346>

Urmann, C.; Oberbauer, E.; Couillard-Després, S.; Aigner, L.; Riepl, H. (2015): Neurodifferentiating potential of 8-prenylnaringenin and related compounds in neural precursor cells and correlation with estrogen-like activity. *Planta Medica* 81 (4), S.305-311. DOI: <https://doi.org/10.1055/s-0034-1396243>

## 2012

Riepl, H.; Urmann, C. (2012): Improved Synthesis of Indirubin Derivatives by Sequential Build-Up of the Indoxyl Unit: First Preparation of Fluorescent Indirubins. *Helvetica Chimica Acta* 95 (8), S.1461-1477. DOI: <https://doi.org/10.1002/hlca.201200042>

## 2004

Doll, K.; Riepl, H.; Dirksen, G. (2004): Pathophysiological significance of steatorrhea as well as of hydroxystearic acids in the feces of calves with diarrhea. *Deutsche tierärztliche Wochenschrift* 111 (1), S.22-28.

## 1999

Doll, K.; Riepl, H.; Eichhorn, W.; Dirksen, G. (1999): Bile acid concentrations in serum, bile and feces of healthy calves and calves with diarrhea. *Deutsche tierärztliche Wochenschrift* 106 (1), S.35-40.

## BEITRÄGE IN MONOGRAFIEN, SAMMELWERKEN, SCHRIFTENREIHEN

### 2008

Diller, R.; Riepl, H.; Rose, O.; Frias, C.; Henze, G.; Prokop, A. (2008): Desmethylxanthohumol from hops, chemistry and biological effects. *Enzylopaedic Handbook of Hop and Beer*.

## PATENTE

### 2012

Riepl, H.; Urmann, C. (2012): Refining process for separation of prenylated polyphenols. DE 102012105613 A1.

### 2011

Aigner, L.; Oberbauer, E.; Couillard-Després, S.; Rivera, F.; Riepl, H.; Urmann, C.; Biendl, M. (2011): Chromane-like cyclic prenylflavonoids for the medical intervention in neurological disorders. WO/2012/172090.

### 2004

Prokop, A.; Riepl, H.; Wieder, T. (2004): 8-nitro-tryptanthrin and other tryptanthrin derivatives used for the treatment of diseases caused by highly proliferating cells. WO/2004/087164.

### 1997

Herrmann, W.; Kulpe, J.; Kellner, J.; Riepl, H. (1997): Sulfonated phenyl phosphine-containing complexes. EP 0 372 313 B1.

### 1993

Winter, A.; Küber, F.; Spaleck, W.; Riepl, H.; Herrmann, W.; Dolle, V.; Rohrmann, J. (1993): Process for the preparation of polymers using metallocenes with specifically substituted indenyl ligands. EP 0582194 A1.

Winter, A.; Rohrmann, J.; Antberg, M.; Spaleck, W.; Herrmann, W.; Riepl, H. (1993): Process for the preparation of polymers using specific metallocenes. EP 0582195 A1.

### 1991

Riepl, H.; Herrmann, W.; Rohrmann, J. (1991): Metallocenes with bicyclic cyclopentadiene derivatives as ligands,

process for their preparation and their use as catalysts. EP 0490256 A1.

## **1989**

Kulpe, J.; Riepl, H.; Herrmann, W.; Kellner, J. (1989): Sulfonated triphenylphosphane containing metal complexes. EP 89121708.5.