

## Publications

### Book contributions

Chemotaxonomy of the Xylariaceae and remarkable bioactive compounds from Xylariales and their associated asexual stages

M. Stadler, V. Hellwig

In: Recent Research Developments in Phytochemistry, Research Signpost, Trivandrum, India, **2005**, 41-93

PCR-Based Data and Secondary Metabolites as Chemotaxonomic Markers in High Throughput Screening for Bioactive Compounds from Fungi

M. Stadler, V. Hellwig

In: Handbook of Industrial Mycology, Zhiqiang An (ed.), Marcel Dekker, New York, **2004**, 269-307 (Mycology Series 22: 269-307)

Author for Römpp Online database, Thieme Verlag Stuttgart, Area Natural Products, responsible for the topic „Ungewöhnliche Naturstoffe, diverse Heterocyclen“ together with Dr. Franz von Nussbaum, since **2007**

### Papers

Retipolides – Unusual Spiromacrolactones from the Mushrooms of *retiboletus retipes* and *R. ornatipes*  
K. Justus, R. Herrmann, J.-D. Klamann, G. Gruber, V. Hellwig, A. Ingerl, K. Polborn, B. Steffan, W. Steglich

*Eur. J. Org. Chem* **2007**, 5560-5572

Syntheses of retipolide E and ornatipolide, 14-membered biaryl-ether macrolactones from mushrooms  
A. Ingerl, K. Justus, V. Hellwig, W. Steglich

*Tetrahedron* **2007**, 63, 6548-6557

Accelerated Dereplication of Natural Products, Supported by reference Libraries

J. Bitzer, B. Köpcke, M. Stadler, V. Hellwig, Y.-M. Ju, S. Seip, T. Henkel

*Chimia* **2007**, 61, 332-338

Medicinal chemistry optimization of acyldepsipeptides of the enopeptin class antibiotics

B. Hinzen, S. Raddatz, H. Paulsen, T. Lampe, A. Schumacher, D. Häbich, V. Hellwig, J. Benet-Buchholz, R. Endermann, H. Labischinski, H. Brotz-Oesterhelt

*Chem. Med. Chem.* **2006**, 1, 689-93

Novel Analgesic Triglycerides From Cultures of *Agaricus macrosporus* and Other Basidiomycetes As Selective Inhibitors of Neurolysin

M. Stadler, V. Hellwig, A. Mayer-Bartschmid, D. Denzer, B. Wiese, N. Burkhardt

*J. Antibiot.* **2005**, 58, 775-786

Cohaerins A and B, azaphilones from the fungus *Hypoxylon coharens*, and comparison of HPLC-based metabolite profiles in *Hypoxylon* sect. *Annulata*

D. N. Quang, T. Hashimoto, Y. Nomura, H. Wollweber, V. Hellwig, J. Fournier, M. Stadler, Y. Asakawa

*Phytochemistry* **2005**, 66, 797-809

Hypomiltin, a novel azaphilone from *Hypoxylon hypomiltum*, and chemotypes in *Hypoxylon* sect. *Hypoxylon* as inferred from analytical HPLC profiling

V. Hellwig, Y.-M. Ju, J. D. Rogers, J. Fournier, M. Stadler  
*Mycological Progress* **2005**, *4*, 39-54

Revision of the Structures Assigned to the Fungal Metabolites Boletunone A and B  
W. Steglich, V. Hellwig  
*Org. Lett.* **2004**, *6*, 3175-3177

Pochonins A-F, New Antiviral and Antiparasitic Resorcylic Acid Lactones from *Pochonia chlamydosporia* var. *catenulata*  
V. Hellwig, A. Mayer-Bartschmid, H. Müller, G. Greif, G. Kleymann, W. Zitzmann, H.-V. Tichy, M. Stadler  
*J. Nat. Prod.* **2003**, *66*, 829-837

Chemotaxonomy of *Pochonia* and other Conidial Fungi with *Verticillium*-like Anamorphs  
M. Stadler, H.-V. Tichy, E. Katsiou, V. Hellwig  
*Mycological Progress* **2003**, *2*, 95-122

Activities of Prenylphenol Derivatives from Fruitbodies of *Albatrellus* spp. on the Human Vanilloid Receptor 1 (VR1) and Characterisation of the Novel Natural Product, Confluentin  
V. Hellwig, R. Wittka, F. Mauler, J. Freitag, L. Ji-Kai, D. Zhi-Hui, M. Stadler  
*Arch. Pharm. Pharm. Med. Chem.* **2003**, *336*, 119-126

Altersetin, a New Antibiotic from Cultures of Endophytic *Alternaria* spp. - Taxonomy, Fermentation, Isolation, Structure Elucidation and Biological Activities  
V. Hellwig, T. Grothe, A. Mayer-Bartschmid, R. Endermann, F.-U. Geschke, T. Henkel, M. Stadler  
*J. Antibiot.* **2002**, *55*, 881-892

Calopins and Cyclocalopins - Bitter Principles from *Boletus calopus* and Related Mushrooms  
V. Hellwig, J. Dasenbrock, C. Gräf, L. Kahner, S. Schumann, W. Steglich  
*Eur. J. Org. Chem.* **2002**, 2895-2904

Mit chinesischer Medizin zu neuen Arzneimitteln  
V. Hellwig  
*Chemie in unserer Zeit* **2002**, *36*, 22-28

Stephanosporin, ein „spurloser“ Vorläufer von 2-Chlor-4-nitrophenol im Bauchpilz *Stephanospora caroticolor*  
Stephanosporin, a „Traceless“ Precursor of 2-Chloro-4-nitrophenol in the Gasteromycete *Stephanospora caroticolor*  
M. Lang, P. Spiteller, V. Hellwig, W. Steglich  
*Angew. Chem.* **2001**, *113*, 1749-1751  
*Angew. Chem. Int. Ed.* **2001**, *40*, 1704-1705

New Benzodioxepin Type Strobilurins from Basidiomycetes. Structural Revision and Determination of the Absolute Configuration of Strobilurin D and Related  $\beta$ -Methoxyacrylate Antibiotics  
V. Hellwig, J. Dasenbrock, D. Klostermeyer, S. Kroiß, T. Sindlinger, P. Spiteller, B. Steffan, W. Steglich, M. Engler-Lohr, S. Semar, T. Anke  
*Tetrahedron* **1999**, *55*, 10101-10118

Studies on the Chemical Identity and Biological Functions of Pangamic Acid  
D. Schneider, V. Hellwig, K. Staniek, H. Nohl, E. Elstner  
*Arzneimittel-Forschung/Drug Research* **1999**, *49 (I)*, 335-343

Noroudemansin A, a New Antifungal Antibiotic from *Pterula* Species 82168 and Three Semisynthetic Derivatives  
M. Engler-Lohr, T. Anke, V. Hellwig, W. Steglich

*Z. Naturforsch.* **1999**, *54c*, 163-168

Strobilurin M, Tetrachloropyrocatechol and Tetrachloropyrocatechol Methyl Ether: New Antibiotics from a *Mycena* Species

M. Daferner, T. Anke, V. Hellwig, W. Steglich, O. Sterner

*J. Antibiot.* **1998**, *51*, 816-822

*O*-Geranylated Isoflavones and a 3-Phenylcoumarin from *Millettia griffoniana*

E. Yankep, Z. T. Fomun, D. Bisrat, E. Dagne, V. Hellwig, W. Steglich

*Phytochemistry* **1998**, *49*, 2521-2523

New Triquinane-Type Sesquiterpenoids from *Macrocyttidia cucumis* (Basidiomycetes)

V. Hellwig, J. Dasenbrock, S. Schumann, W. Steglich, K. Leonhardt, T. Anke

*Eur. J. Org. Chem.* **1998**, 73-79

Anthrones from *Aloe microstigma*

E. Dagne, D. Bisrat, B.-E. van Wyk, A. Viljoen, V. Hellwig, W. Steglich

*Phytochemistry* **1997**, *44*, 1271-1274

Tropane Alkaloids from *Schizanthus litoralis*

O. Muñoz, M. Piovano, J. Garbarino, V. Hellwig, E. Breitmaier

*Phytochemistry* **1996**, *43*, 709-713

### **Oral Contributions to Conferences/Symposia (Selection Marine Mammals: 2005-)**

Analysis of pollutant-induced protein expression in marine mammals

V. Hellwig

CO-Symposium des MARCOPOLI-Programms der HGF, Helgoland, 04/2007

Analysis of pollutant-induced protein expression in harbour seals

V. Hellwig

2<sup>nd</sup> Helmholtz Young Investigator Meeting – Minisymposium-, Berlin-Buch, 09/2006

Analyse von Proteinexpressionen in marinen Säugetieren

V. Hellwig

CO-Symposium des MARCOPOLI-Programms der HGF, Hamburg, 02/2006

Akute-Phase-Proteine: Mögliche Indikatoren für den Gesundheitszustand mariner Säuger

V. Hellwig, A. Kakuschke, B. Erbslöh, S. Lassen, S. Fonfara, A. Prange

CO3-Kolloquium des MARCOPOLI-Programms der HGF, Bremerhaven (D), 08/2005

### **Poster Contributions to Conferences (Selection Marine Mammals: 2006-)**

A cell culture model for identification of novel biomarkers of pollutant influence on harbour seals

(*Phoca vitulina*)

V. Hellwig, A. Wargel, A. Behr, U. Siebert

17<sup>th</sup> Biennial Conference on the Biology of Marine Mammals, Cape Town (SA), 2007

Isolation of primary liver cell cultures of harbour seals (*Phoca vitulina*) for identification of novel biomarkers of pollutant influence

V. Hellwig, A. Wargel, A. Behr, U. Siebert

ICES ASC (International Council for the Exploration of the Sea Annual Science Conference), Helsinki (FIN), 2007

Best Poster Merit Award

Isolation and structural characterization of haptoglobin from harbour seals (*Phoca vitulina*) for the evaluation of its potential as indicator of marine mammal health

V. Hellwig, B. Erbslöh, U. Siebert, A. Prange

36<sup>th</sup> Conference of the Ecological Society of Germany, Switzerland and Austria, Bremen (D), 2006

Isolation of haptoglobin from harbour seals

V. Hellwig, B. Erbslöh, A. Prange 34<sup>th</sup> International Symposium on Environmental Analytical Chemistry, Hamburg (D), 2006

Isolation of haptoglobin from harbour seals (*Phoca vitulina*)

V. Hellwig, B. Erbslöh, H. Rosenfeld, S. Lassen, A. Kakuschke, S. Fonfara, U. Siebert, A. Prange 20<sup>th</sup> Conference of the European Cetacean Society, Gdynia (PL), 2006

## Other Talks

Effects of persistent pollutants on marine mammals

V. Hellwig

Fifth GKSS School of Environmental Research: Persistent Pollution: Past, Present and Future, Gohrde (D), 2007

Sind die Seehunde gesund – oder was macht sie krank?

V. Hellwig

2. Nacht des Wissens in Hamburg,

ZMAW (Zentrum für Marine und Atmosphärische Wissenschaften), Hamburg (D), 2007

## Patents

Agaricoglycerides produced by Basidiomycetes and their analogs

M. Stadler, V. Hellwig, B. Wiese, N. Burkhardt, D. Denzer, A. Mayer-Bartschmid, S. Allerheiligen, M. Gerisch, S.-N. Wirtz

Patent-No. WO-03/055843 A1

Synthesis of antibacterial macrocyclic oligopeptides for use in treatment of diseases in humans or animals

B. Hinzen, H. Brötz, R. Endermann, K. Henninger, H. Paulsen, S. Raddatz, T. Lampe, V. Hellwig, A. Schumacher

Patent-No. WO-03024996-A2 20030327

Antibacterial macrocycles

B. Hinzen, H. Brötz, R. Endermann, K. Henninger, H. Paulsen, S. Raddatz, T. Lampe, V. Hellwig, A. Schumacher

Patent-No. DE 10164147 A1 20030717

Serine derivatives, their preparation, pharmaceutical compositions containing them, and their antibacterial use

B. Hinzen, H. Brötz, R. Endermann, K. Henninger, H. Paulsen, S. Raddatz, T. Lampe, V. Hellwig, A. Schumacher

Patent-No. DE 10219225 A1 20031113

Ascosalipyrrolone derivatives

M. Stadler, V. Hellwig, M. Gehling, R. Endermann, F. Bauch, C. Osterhage, G. König, A. Wright

Patent-No. WO-0147881-A 2001.07.05 (200129)

Preparation of ascosalipyrrolone A and ascosalipyrrolone B as antibacterials by fermentation of DSM 13086

M. Stadler, V. Hellwig, M. Gehling, R. Endermann, F. Bauch, C. Osterhage, G. König, A. Wright  
Patent-No. DE 19962933 A1 20010628

### **Ph. D. Thesis**

Isolierung, Strukturaufklärung und chemotaxonomische Untersuchungen von Sekundärmetaboliten aus Pilzen

V. Hellwig

*Ludwig-Maximilians-Universität München, 1999*