

## Publications

### Book contributions

Effect of persistent pollutants on marine mammals

V. Hellwig

In: Persistent Pollution, Series: GKSS School of Environmental Research, Springer, Berlin, **2009**

In preparation

Author for Römpp Online database, Thieme Verlag Stuttgart, area: Natural Products, topic:

„Ungewöhnliche Naturstoffe, diverse Heterocyclen, since **2007**

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)

### Papers

Isolation of hepatocytes from harbour seals (*Phoca vitulina*) for toxicoproteomic studies

V. Hellwig, A. Wargel, U. Siebert

In preparation for publication in *Aquatic Toxicology*

Analysis of polychlorinated biphenyl (PCB)-induced modification of protein expression in primary hepatocytes from harbour seals

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

*Organohalogen Compounds* **2008**, 70, 1079-1082

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 *Macrocystidia 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

## Book review

„Hilfreich, aber unpraktisch“

Über: Traditional Chinese Medicines. Molecular Structures, natural sources, and applications. Von X. Yan, J. Zhou und G. Xie. Asgate, Hampshire/Englanf, 1999

T. Henkel, V. Hellwig

*Nachrichten aus der Chemie* **2000**, *48*, 1264

## Lectures

Impact of contaminants on marine mammals

Summer School 2008: Coastal Seas under Pressure (Jointly organized by Alfred-Wegener Institute, GKSS Research Centre, Baltic Sea Research Institute, and Research and Technology Centre Westcoast.), Lauenburg, 09/2008

Von der Küste ins Labor: Untersuchungen an primären Hepatozyten zum Einfluss von Schadstoffen auf Seehunde

Pharmazeutisches Kolloquium, Institute of Pharmacy, University of Kiel, 04/2008

Sind die Seehunde gesund – oder was macht sie krank?

Public lecture, 2. Nacht des Wissens, ZMAW (Zentrum für Marine und Atmosphärische Wissenschaften), Hamburg, 06/2007

Effects of persistent pollutants on marine mammals

GKSS School of Environmental Research: Persistent Pollution: Past, Present and Future, GÖhrde, 05/2007

Kleine molekulare Unterschiede – (Bio)chemische Marker in der Natur

Inaugural lecture, University of Lüneburg, 01/2007

Analysis of pollutant-induced protein expression in harbour seals

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

Isolation, Structure Elucidation and Biological Characterisation of Novel Bioactive Metabolites from *Pochonia chlamydosporia*

23<sup>rd</sup> IUPAC International Symposium on the Chemistry of Natural Products, Florence (I), 2002

The Use of Mass Spectrometry in Natural Product Research

IBC conference: Mass spectrometry and analytical tools, London (GB), 2000

## Presentations within the MARCOPOLI-Research Programme (Helmholtz foundation)

Analysis of pollutant-induced protein expression in marine mammals

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

Analyse von Proteinexpressionen in marinen Säugetieren

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

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

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

## Poster Contributions to Conferences (Selection)

Isolierung von primären Hepatozyten aus Seehunden (*Phoca vitulina*) zur Analyse der schadstoffinduzierten Proteinexpression

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

3. Gemeinsame Tagung von SETAC GLB und GDCh: Neue Problemstoffe in der Umwelt: Erfassung, Wirkungen und Lösungsmöglichkeiten; Frankfurt/Main, 09/2008

Analysis of polychlorinated biphenyl (PCB)-induced modification of protein expression in primary hepatocytes from harbour seals

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

28<sup>th</sup> International Symposium on Halogenated Persistent Organic Pollutants (Dioxin 2008), Birmingham (UK), 08/2008

A cell culture model for identification of novel biomarkers of pollutant influence on harbour seals (*Phoca vitulina*)

A. Wargel, A. Behr, V. Hellwig

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

Analysis of pollutant-induced protein expression in primary hepatocytes from harbour seals

A. Wargel, A. Behr, H. Seibel, V. Hellwig

21<sup>st</sup> Conference of the European Cetacean Society, San Sebastian (E), 2007

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

Altersetin – a New Antibacterial Tetramic Acid From Endophytic *Alternaria* Spp.

V. Hellwig, T. Grothe, A. Mayer-Bartschmid, T. Henkel, R. Endermann, M. Stadler

14. Naturstofftage der DECHEMA e.V., Irsee (D), 2002

Altersetin – a New Antibacterial Tetramic Acid From Endophytic *Alternaria* Spp.

V. Hellwig, T. Grothe, A. Mayer-Bartschmid, T. Henkel, R. Endermann, M. Stadler

Gordon Research Conference, Natural Products, Tilton, NH (USA), 2001

## 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*