

Thomas MAGAUER

Full Professor of Synthesis and Synthetic Methods
Centre of Chemistry and Biomedicine
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PERSONAL DATA

Date of Birth	March 21, 1983
Place of Birth	Linz, Austria
Nationality	Austrian
Marital Status	Married (Daughter Leni, 2 years)
Language Skills	German (native), English (fluent), French (basic)

ACADEMIC POSITIONS

08/2017 –	Full Professor UIBK, Innsbruck, Austria
2012 – 2017	Assistant Professor (NTT) LMU Munich, Munich, Germany

EDUCATION

2010 – 2012	Erwin Schrödinger Postdoctoral Fellow Harvard University, Cambridge, USA (Advisor: Prof. A. G. Myers)
2007 – 2009	Ph.D. Chemistry University of Vienna, Vienna, Austria (Advisor: Prof. J. Mulzer)
2002 – 2007	M.Sc. Chemistry University of Vienna, Vienna, Austria (Advisor: Prof. J. Mulzer)
2002 – 2002	Military Service
1993 – 2001	Abitur Bundesgymnasium Steyr, Austria

AWARDS AND FELLOWSHIPS

2017	DECHEMA Early-Career Researcher Prize for Natural Product Research, Irsee, DE
2017	Margaret L. Goering and Harlan L. Goering Visiting Professor in Organic Chemistry, Madison, USA

2016	Arnold Sommerfeld-Prize of the Bavarian Academy of Sciences, Munich, DE
2016	Dozentenpreis of the Chemical Industry Fund, Hannover, DE
2016	ORCHEM Prize of the German Chemical Society (GDCH), Weimar, DE
2016	ADUC Prize of the German Chemical Society (GDCH), Heidelberg, DE
2015	Dr. Klaus Römer-Foundation Young Investigator Award, Munich, DE
2015	JSP Fellowship 50 th Bürgenstock Conference, Brunnen, CH
2015	BASF 150 Years Science Symposium Travel Grant Awardee, Chicago, USA
2013	EU Commission Fellow Lindau Nobel Laureate Meeting, Lindau, DE
2012	Liebig-Fellowship of the Chemical Industry Fund, Frankfurt, DE
2011	Doc PhD Award, Vienna, AT
2010	GÖCH PhD Thesis Award, Vienna, AT
2010	DSM Science and Technology Awards Finalist, Interlaken, CH
2009	FWF Erwin Schrödinger Postdoctoral Fellowship, Vienna, AT

FUNDING

2018	FWF Stand-Alone Project
2017	ERC-STRG Grant of the European Research Council
2017	LFU-MUI Collaborative Grant (Dr. Pallua)
2017	Bayer CropScience AG Research Grant: Phase II
2016	Funding of the Dr. Otto-Röhm Gedächtnisstiftung
2016	Bayer CropScience AG Research Grant: Phase I
2016	Chemical Industry Fund "General Expenses"
2015	DFG SFB 749 "Dynamics & Intermediates of Molecular Transformations"
2015	Chemical Industry Fund "General Expenses"
2014	DFG SFB 152 „TRiPs to Homeostasis“
2013	DFG Emmy Noether Fellowship
2012	FCI Liebig-Fellowship of the Chemical Industry Fund

SUPERVISION OF STUDENTS

Since 2012 1 Postdoc, 15 PhD, 22 Master, 10 Bachelor Students

TEACHING ACTIVITIES

Since 2018	Reaction Mechanisms , Department of Organic Chemistry, University of Innsbruck, AT
Since 2018	Lecture – Organic Chemistry I , Department of Organic Chemistry, University of Innsbruck, AT

Since 2017	Lecture – Organic Syntheses II/Heterocycles , Department of Organic Chemistry, University of Innsbruck, AT
Since 2017	Lecture – Organic Syntheses I/Natural products , Department of Organic Chemistry, University of Innsbruck, AT
2017	Lecture – Chem 345: Intermediate Organic Chemistry , Department of Chemistry, University of Madison, USA
2012 – 2017	Head of OC-Colloquium , The Faculty of Chemistry and Pharmacy, LMU Munich, DE
2016	Lecture – Organic Chemistry I (with Prof. Dirk Trauner), The Faculty of Chemistry and Pharmacy, LMU Munich, DE
2015 – 2016	Lecture – Heterocyclic Chemistry , The Faculty of Chemistry and Pharmacy, LMU Munich, DE
2015	PROFIL Certificate “Hochschullehre der bayerischen Universitäten”, LMU Munich, DE
2013	Lecture – Natural Product Chemistry , The Faculty of Chemistry and Pharmacy, LMU Munich, DE
2013 – 2014	Head of Tutorial – Organic Chemistry I , The Faculty of Chemistry and Pharmacy, LMU Munich, DE

COMMISSION OF TRUST

Since 2013	Reviewer for Wiley VCH, ACS, Elsevier, RSC, Thieme, Beilstein
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MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Since 2018	Member of the Young Academy of the Austrian Academy of Sciences
Since 2018	Member of the CMBI - Center for Molecular Biosciences Innsbruck
2015 – 2017	Member of the Collaborative Research Center 749 “Reactive Intermediates” (DFG)
2014 – 2017	Member of the Collaborative Research Center 152 “TRiPs to Homeostasis” (DFG)
Since 2013	Member of the Young Center of Advanced Studies (CAS ^Y)
Since 2012	Member of the German Chemical Society (GDCh)

COLLABORATIONS

Dirk Trauner	High-Pressure Cycloaddition Reactions, NYU, New York, USA
Bayer AG	Synthesis of Natural Herbicides, Bayer CropScience, Frankfurt, DE
Syngenta AG	Biological Investigation of Diterpenoids, Syngenta International AG, Stein, CH
G. Schneider	Biological Investigation of Dictyoxetane and Analogs, ETH Zurich, Zurich, CH
M. Brönstrup	Biological Investigation of Meroterpenoids, Department of Chemical Biology, Helmholtz Centre for Infection Research, Braunschweig, DE
A. Adibekian	Chemical Biology of Natural Products, Department of Organic Chemistry, University of Geneva, CH

RESEARCH INTERESTS

Natural Product Chemistry; Organic Synthesis and Methodology; C–X/C–H Bond Activation; Halogenated Arenes and Heteroarenes; Ring-Expansion Reactions; High-Pressure Chemistry, Cycloaddition Reactions

PUBLICATIONS

Peer-Reviewed

35. A Negishi cross-coupling reaction enables the total synthesis of (+)-stachyflin. F.-L. Haut, K. Speck, R. Wildermuth, K. Möller, P. Mayer, **T. Magauer***, *Tetrahedron.*, **2018**, DOI: 10.1016/j.tet.2018.02.048.
34. 9-Membered Carbocycles: Strategies and Tactics for their Synthesis. T. Huber, R. Wildermuth, **T. Magauer***, *Chem. Eur. J.*, **2018**, *accepted article*.
33. *De Novo Synthesis of Benzannelated Heterocycles*. J. Feierfeil, **T. Magauer***, *Chem. Eur. J.*, **2018**, *24*, 1455–1458.
32. *A Modular Synthesis of Tetracyclic Meroterpenoid Antibiotics*. R. Wildermuth, K. Speck, F.-L. Haut, P. Mayer, B. Karge, M. Brönstrup, **T. Magauer***, *Nat. Commun.* **2017**, *8*, 2083.
31. *Development of a β -C–H Bromination Approach Towards the Synthesis of Jerantinine E*. T. Huber, T. Unzner, C. Gerlinger, **T. Magauer***, *J. Org. Chem.*, **2017**, *82*, 7410–7419.
30. *Dyotropic Rearrangements in Natural Product Synthesis and Biosynthesis*. C. L. Hugelshofer, **T. Magauer***, *Nat. Prod. Rep.*, **2017**, *34*, 228–234. (*Highlight*)
29. Bioinspired Total Syntheses of Terpenoids. C. L. Hugelshofer, T. Magauer, *Org. Biomol. Chem.*, **2017**, *15*, 12–16. (*Perspective*)
28. Evolution of a Polyene Cyclization Cascade for the Total Synthesis of (–)-Cyclosmenospongine. K. Speck, **T. Magauer***, *Chem. Eur. J.* **2017**, *23*, 1157–1165. (*HOT PAPER*)
27. Convergent Assembly of the Tetracyclic Meroterpenoid (–)-Cyclosmenospongine via a Non-Biomimetic Polyene Cyclization. K. Speck, R. Wildermuth, **T. Magauer***, *Angew. Chem., Int. Ed.* **2016**, *55*, 14131–14135. Highlighted in SYNFACTS: E. M. Carreira, P. Sonderrmann, *Synfacts* **2017**, *13*, 5.
26. A Divergent Approach to the Marine Diterpenoids (+)-Dictyoxetane and (+)-Dolabellane V. C. L. Hugelshofer, **T. Magauer***, *Chem. Eur. J.* **2016**, *22*, 15125–15136.
25. Rapid Access to Orthogonally Functionalized Naphthalenes: Application to the Total Synthesis of the Antitumor Agent Chartarin. T. A. Unzner, A. S. Grossmann, **T. Magauer***, *Angew. Chem., Int. Ed.* **2016**, *55*, 9763–9767. (*HOT PAPER*)
24. A Bioinspired Cyclization Sequence Enables the Asymmetric Total Synthesis of Dictyoxetane. C. L. Hugelshofer, **T. Magauer***, *J. Am. Chem. Soc.* **2016**, *138*, 6420–6423.

- Highlighted in *SYNFACTS*: E. M. Carreira, H. Wolleb, *Synfacts* **2016**, *12*, 771.
23. Gold(I)-Catalyzed Enyne Cyclizations: Studies Towards the Total Synthesis of (+)-Aureol. R. Wildermuth, K. Speck, **T. Magauer***, *Synthesis* **2016**, *48*, 1814–1824.
 22. Trihaloethenes as Versatile Building Blocks for Organic Synthesis. A. Grossmann, **T. Magauer***, *Org. Biomol. Chem.*, **2016**, *14*, 5377–5389.
 21. Synthesis of Xenia Diterpenoids and Related Metabolites Isolated from Marine Organisms. T. Huber, L. Weisheit, **T. Magauer***, *Beilstein J. Org. Chem.* **2015**, *11*, 2521–2539.
 20. Ring Opening of Bicyclic[3.1.0]hexan-2-ones: A Versatile Synthetic Platform for the Construction of Substituted Benzoates. J. Feierfeil, A. S. Grossmann, **T. Magauer***, *Angew. Chem., Int. Ed.*, **2015**, *54*, 11835–11838.
 19. The 50th EUCHEM Conference on Stereochemistry (Bürgenstock Conference 2015). A. Adibekian, **T. Magauer***, *Chimia*, **2015**, *69*, 485–487.
 18. Sequential O–H/C–H Bond Insertion of Phenols Initiated by the Gold(I)-Catalyzed Cyclization of 1-Bromo-1,5-Enynes. K. Speck, K. Karaghiosoff, **T. Magauer***, *Org. Lett.* **2015**, *17*, 1982–1985.
 17. Total Synthesis of the Leucosceptroid Family of Natural Products. C. L. Hugelshofer, **T. Magauer***, *J. Am. Chem. Soc.* **2015**, *137*, 3807–3810.
 16. Experimental Studies on the Selective β -C-H Halogenation of Enones. T. Huber, J. Rickmeier, D. Kaiser, **T. Magauer***, *J. Org. Chem.* **2015**, *80*, 2281–2294.
 15. Chemical Synthesis of Antifeedant Leucosceptroids. C. L. Hugelshofer, K. Speck, A. S. Grossmann, **T. Magauer**, <http://www.beilstein.tv>
 14. Carbon-Fluorine Bond Activation for the Synthesis of Functionalized Molecules. T. A. Unzner, **T. Magauer***, *Tetrahedron Lett.* **2015**, *56*, 877–883.
 13. Strategies for the Synthesis of Antifeedant Leucosceptroid Natural Products. C. L. Hugelshofer, **T. Magauer***, *Synlett* **2015**, *26*, 572–579.
 12. Unraveling the Metabolic Pathway in *Leucoscepttrum Canum* by Isolation of New Defensive Leucosceptroid Degradation Products and Biomimetic Model Synthesis. S.-H. Luo, C. L. Hugelshofer, J. Hua, S.-X. Jing, C.-H. Li, Y. Liu, X.-N. Li, X. Zhao, **T. Magauer***, S.-H. Li*, *Org. Lett.* **2014**, *16*, 6416–6419.
 11. A General Entry to Antifeedant Sesterterpenoids: Total Synthesis of (+)-Norleucosceptroid A, (–)-Norleucosceptroid B, and (–)-Leucosceptroid K. C. L. Hugelshofer, **T. Magauer***, *Angew. Chem., Int. Ed.* **2014**, *53*, 11351–11355.
- Highlighted as *SYNFACT* of the month: E. M. Carreira, M. Westphal, *Synfacts* **2014**, *10*, 1233.
10. Crystalline Guanine Adducts of Natural and Synthetic Trioxacarcins Suggest a Common Biological Mechanism and Reveal a Basis for the Instability of Trioxacarcin. K. Pröpper, B. Dittrich, D. J. Smaltz, **T. Magauer**, A. G. Myers, *Biorg. Med. Chem. Lett.* **2014**, *24*, 4410–4413.
 9. A Transition Metal-Free Synthesis of Fluorinated Naphthols. J. Hammann, T. Unzner, **T. Magauer***, *Chem. Eur. J.* **2014**, *20*, 6733–6738.
- Highlighted in *SYNFACTS*: P. Knochel, D. Haas, *Synfacts* **2014**, *10*, 853.

8. High-Pressure Transformations in Natural Product Synthesis.
C. L. Hugelshofer, **T. Magauer***, *Synthesis* **2014**, *46*, 1279–1296.
7. The Chemistry of Isoindole Natural Products.
K. Speck, **T. Magauer***, *Beilstein J. Org. Chem.* **2013**, *9*, 2048–2078.
6. Differentiated Glycosylation Strategies Provide an Expedient Synthesis of Trioxacarcin A, DC-45-A1, and Derivatives with Novel Glycosylation Patterns.
T. Magauer, D. J. Smaltz A. G. Myers, *Nat. Chem.* **2013**, *5*, 886–893.
5. Short and Efficient Synthetic Route to Methyl α -Trioxacarcinoside B and Anomerically Activated Derivatives.
T. Magauer, A. G. Myers, *Org. Lett.* **2011**, *13*, 5584–5587.
4. Ring Closing Metathesis and Photo–Fries Reaction for the Construction of the Ansamycin Antibiotic Kendomycin. Development of a Protecting Group Free Oxidative Endgame.
T. Magauer, H. J. Martin, J. Mulzer, *Chem. Eur. J.* **2010**, *16*, 507–519 (VIP-Publication).
3. In Pursuit of a Competitive Target: The Total Synthesis of the Antibiotic Kendomycin.
H. J. Martin, T. Magauer, J. Mulzer, *Angew. Chem., Int. Ed.* **2010**, *49*, 5614–5626.
2. Total Synthesis of the Antibiotic Kendomycin by Macrocyclization via Photo–Fries Rearrangement and Ring Closing Metathesis (RCM).
T. Magauer, H. J. Martin, J. Mulzer, *Angew. Chem., Int. Ed.* **2009**, *48*, 6032–6036.
1. Total Synthesis of (+)–Echinopine A and B: Determination of Absolute Stereochemistry.
T. Magauer*, J. Mulzer, K. Tiefenbacher*, *Org. Lett.* **2009**, *11*, 5306–5309.

Books

“Comprehensive Chirality Vol 3: Synthetic Methods I - Chiral Pool and Diastereoselective Methods”, E. Carreira, H. Yamamoto, Eds., J. Mulzer, Section Ed.; **T. Magauer**, Elsevier, **2012**.

Patents

“Trioxacarcins and Uses Thereof”, Andrew G. Myers, Nicholas E. Hill, Jakub Svenda, Robert T. Yu, Daniel J. Smaltz, and **Thomas Magauer**, EP2550285 A1, WO2011119549, **2013**.

PRESENTATIONS

2018

- **Universität des Saarlandes**

“Construction and Deconstruction of Three-Dimensional Molecules”: Saarbrücken, Germany, 07/2018

- **Boeringer Ingelheim**

“Construction and Deconstruction of Three-Dimensional Molecules”: Ingelheim, Germany, 06/2018

- **University of Vienna and TU Vienna**

“Construction and Deconstruction of Three-Dimensional Molecules”: Vienna, Austria, 05/2018

- **WissensDurst**

“Naturstoffe und Molekulare Architektur”: Innsbruck, Austria, 04/2018

- **Oxford University**

“Construction and Deconstruction of Three-Dimensional Molecules”: Oxford, UK, 02/2018

- **CMBI Lecture at the University of Innsbruck**
 “Natural Products as Inspiration and Innovation for Chemical Synthesis”: Innsbruck, AT, 01/2018
2017
- **Yale University – Sigma Aldrich Lecture**
 “Construction and Deconstruction of Three-Dimensional Molecules”: New Haven, USA, 12/2017
- **Aarhus University - TOKS**
 “Construction and Deconstruction of Three-Dimensional Molecules”: Aarhus, Denmark, 11/2017
- **University of Zurich**
 “Inspiration and Innovation from Complex Molecule Synthesis”: Zurich, Switzerland, 09/2017
- **ICIQ**
 “Inspiration and Innovation from Complex Molecule Synthesis”: Tarragona, Spain, 09/2017
- **Syngenta Crop Protection**
 “Inspiration and Innovation from Complex Molecule Synthesis”: Stein, Switzerland, 08/2017
- **Suisse Summer School**
 “Adventures in Natural Product Synthesis”: Villars-sur-Ollon, Switzerland, 08/2017
- **Novartis Pharma AG**
 “Inspiration and Innovation from Complex Molecule Synthesis”: Basel, Switzerland, 08/2017
- **ETH Zurich**
 “Inspiration and Innovation from Complex Molecule Synthesis”: Zurich, Switzerland, 03/2017
- **NYU**
 “Inspiration and Innovation from Natural Product Synthesis”: New York, USA, 03/2017
- **University of Wisconsin - Madison**
 “Inspiration and Innovation from Natural Product Synthesis”: Madison, USA, 02/2017
2016
- **University of Ulm**
 “Inspiration and Innovation from Natural Product Synthesis”: Ulm, Germany, 12/2016
- **University of Hannover**
 “Inspiration and Innovation from Natural Product Synthesis”: Hannover, Germany, 11/2016
- **University of Innsbruck**
 “Inspiration and Innovation from Natural Product Synthesis”: Innsbruck, Austria, 11/2016
- **ORCHEM Conference**
 “A Non-Biomimetic Polyene Cyclization for the Synthesis of Tetracyclic Meroterpenoids”: Weimar, Germany, 09/2016
- **Bayer Crop Science**
 “Natural Product Synthesis as an Inspiration for the Development of Novel Chemical Transformations”: Frankfurt, Germany, 07/2016
- **URCUP - Undergraduate Research Conference on Molecular Sciences**
 „Adventures in Natural Product Chemistry“: Irsee, Germany, 07/2016
- **TU Berlin**
 „Adventures in Natural Product Chemistry“: Berlin, Germany, 07/2016
- **European Research Council**
 “HALODRUGSYN - Halogenated Organic Molecules: From Reaction Design to Application in Drug Synthesis”: Brussels, Belgium, 06/2016
- **Bayer Pharma AG**
 “Natural Product Synthesis as an Inspiration for the Development of Novel Chemical Transformations”: Berlin, Germany, 04/2016

- **GDCh Chemiedozententagung 2016**
 “Ring Opening of Bicyclic[3.1.0]hexan-2-ones: A Versatile Synthetic Platform for the Construction of Substituted Benzoates”: *Heidelberg, Germany, 03/2016*
 - **University of Münster**
 „Natural Products as a Rich Source of Bioactive Compounds and Inspiration for New Chemical Transformations“: *Münster, Germany, 03/2016*
 - **SFB 749 Symposium**
 „A Dynamic Platform for the De Novo Synthesis of Functionalized Arenes“: *Irsee, Germany, 03/2016*
 - **28. Irseer Naturstofftage**
 „Natural Products as an Inspiration for Reaction Discovery“: *Irsee, Germany, 02/2016*
 - **University of Graz**
 „Natural Products as a Rich Source of Bioactive Compounds and Inspiration for New Chemical Transformations“: *Graz, Austria, 01/2016*
- 2015**
- **Pacificchem 2015**
 „A General Route to Antifeedant Sesterterpenoids: Enantioselective Synthesis of Leucosceptroid Natural Products“: *Honolulu, USA, 12/2015*
 - **University of Marburg**
 „Natural Products as a Rich Source of Bioactive Compounds and Inspiration for Chemical Transformations“: *Marburg, Germany, 12/2015*
 - **TU Munich**
 „Natural Products as a Rich Source of Bioactive Compounds and Inspiration for Chemical Transformations“: *Munich, Germany, 11/2015*
 - **Eberhard Karls Universität Tübingen**
 „Natural Products as a Rich Source of Bioactive Compounds and Inspiration for Chemical Transformations“: *Tübingen, Germany, 11/2015*
 - **Beilstein Organic Chemistry Symposium**
 „Natural Products as a Rich Source of Bioactive Compounds and Inspiration for Chemical Transformations“: *Prien, Germany, 09/2015*
 - **GÖCH 16. Austrian Chemistry Days**
 “Collective Total Synthesis of Antifeedant Leucosceptroids”: *Innsbruck, Austria, 09/2015*
 - **University of Basel**
 “Natural Products as a Rich Source of Bioactive Molecules and Inspiration for New Chemical Transformations”: *Basel, Switzerland, 09/2015*
 - **Bayer Pharma AG**
 “Natural Products as a Rich Source of Bioactive Compounds and Inspiration for Novel Chemical Transformations”: *Wuppertal, Germany, 09/2015*
 - **SIOC - Chinese Academy of Sciences**
 “Secondary Metabolites as an Abundant Source of Bioactive Compounds and Inspiration for Reaction Discovery”: *Shanghai, China, 08/2015*
 - **Tianjin University**
 “Secondary Metabolites as an Abundant Source of Bioactive Compounds and Inspiration for Reaction Discovery”: *Tianjin, China, 08/2015*
 - **Nankai University**
 “Secondary Metabolites as an Abundant Source of Bioactive Compounds and Inspiration for Reaction Discovery”: *Tianjin, China, 08/2015*
 - **Peking University**

“Secondary Metabolites as an Abundant Source of Bioactive Compounds and Inspiration for Reaction Discovery”: *Peking, China, 08/2015*

▪ **Freiburg University**

“Natural Products as a Rich Source of Bioactive Compounds and Inspiration for Novel Chemical Transformations”: *Freiburg, Germany, 07/2015*

▪ **Boston University**

“Natural Products as a Rich Source of Bioactive Compounds and Inspiration for Novel Chemical Transformations”: *Boston, USA, 06/2015*

▪ **50th Bürgenstock Conference**

“Asymmetric Total Synthesis of the Leucosceptroid Family of Antifeedant Natural Products”: *Brunnen, Switzerland, 04/2015*

▪ **University of Bayreuth**

“Natural Products as a Source of Bioactive Compounds and Inspiration for Chemical Transformations”: *Bayreuth, Germany, 03/2015*

▪ **GDCh Chemiedozententagung 2015**

“A General Route to Antifeedant Leucosceptroids”: *Regensburg, Germany, 03/2015*

2014

▪ **SFB TRR 152 Kick-Off Meeting**

„Chemical Synthesis of Bioactive Natural Products“: *Mont Sainte-Odile, France, 11/2014*

▪ **Bioorganik Tübingen**

„A General Route to Antifeedant Sesterterpenoids: Enantioselective Synthesis of Norleucosceptroid A and B“: *Tübingen, Germany, 09/2014*

▪ **URCUP - Undergraduate Research Conference on Molecular Sciences**

„Natural Products and Carbon-Halogen Bonds as an Inspiration for Chemical Transformations Carbon-Fluorine Bond Activation“: *Wildbad Kreuth, Germany, 07/2014*

▪ **Steinheimer Gespräche**

„Natural Products and Carbon-Halogen Bonds as an Inspiration for Chemical Transformations Carbon-Fluorine Bond Activation“: *Bad Homburg, Germany, 06/2014*

▪ **GDCh Chemiedozententagung Paderborn**

„B(re)aking Carbon-Fluorine Bonds: Natural Products as a Rich Source of Pharmaceuticals and Inspiration for Chemical Transformations“: *Paderborn, Germany, 03/2014*

2013

▪ **Johannes Kepler University**

„Natural Products as a Rich Source of Pharmaceuticals and Inspiration for Chemical Transformations“: *Linz, Austria, 12/2013*

▪ **Bioorganik Münster**

„Natural Products as a Rich Source of Pharmaceuticals and Inspiration for Chemical Transformations“: *Münster, Germany, 09/2013*