PD Dr. Sabine Amslinger

Privatdozentin/Group leader in Organic Chemistry

Mail sabine.amslinger@gmx.de

Professional Experience

since 08/14 **Privatdozentin/Group leader** at the Institute of Organic Chemistry of the Faculty of Chemistry and Pharmacy of the Universität Regensburg

- Laboratory head, project development, project management, third-party funds acquisition
- Team leadership (training/supervision of students (dissertations) and technical staff)
- Oral presentations (talks, host of panel discussions, lectures, seminars, guided tours)
- Examiner (Ph. D., Master of Education, Bachelor, Master)
- Method development and data analysis, publishing results
- Research topics: organic synthesis (reactivity modulation, covalent ligands, electrophile /photoaffinity probes), testing of biological activity, (bio-)chemical assay development for inhibition of inflammation, neuroprotection, anticancer activity, γδ T-cell activation

03/14 – 07/14 **Interim professor W2** of Organic Chemistry at the Universität Regensburg

03/14 **Habilitation (Dr. rer. nat. habil.) and *Venia Legendi* (Privatdozentin)** in Organic Chemistry at the Faculty of Chemistry and Pharmacy of the Universität Regensburg: *Modulation of the Reactivity and Biological Activity of Enones.*

02/10 – 03/10 **Teaching assignment** at the Ludwig-Maximilians-Universität München: Organic chemistry laboratory course for Master of education students: Seminar and co-organization

08/06 – 02/14 **Junior group leader** at the Institute of Organic Chemistry of the Universität Regensburg

07/04 – 06/06 **Postdoctoral researcher** at the Department of Chemistry of the University of California, Berkeley with Prof. Dr. K. Peter C. Vollhardt:
Applying Cobalt-Mediated [2+2+2] Cyclizations of Borylated Alkynes to Form Polycyclic Structures.

08/03 – 05/04 **Postdoctoral researcher** at the Institute of Organic Chemistry and Biochemistry of the Technische Universität München, Garching with Prof. Dr. Dr. Adelbert Bacher:
Synthesis of ^{13}C-labeled intermediates of isoprenoid biosynthesis.

Education

04/00 – 08/03 **Dissertation** at the Institute of Organic Chemistry and Biochemistry of the Technische Universität München, Garching with Prof. Dr. Dr. Adelbert Bacher:
Chemistry and immunobiology of intermediates of isoprenoid biosynthesis.
Certificate: Dr. rer. nat.; grade: summa cum laude (with highest honor)

09/99 – 03/00 **Diploma thesis** at the Institute of Organic Chemistry of the Friedrich-Alexander-Universität (FAU) Erlangen-Nürnberg, Erlangen with Prof. Dr. Andreas Hirsch:
Synthesis and characterization of the first biotinylated glykolipid.

08/97 – 05/98 **Visiting graduate student** at the Department of Organic Chemistry of the University of Kansas, Lawrence, KS, USA. Research projects with Prof. Dr. Richard S. Givens:
New Photoprotecting Groups: p-Hydroxyphenacyl; Phototriggerable, Collagen-Crosslinking Compounds for Wound Closure in Ocular Surgery. and with Prof. Dr. Daryle H. Busch:
Synthesis of Zinc Complexes of Triazacyclononane Derivatives.

10/95 – 03/00 **Chemistry studies (Diplom)** at the FAU Erlangen-Nürnberg, Erlangen
Certificate: Dipl.-Chem. Univ.; grade: 1.0 (summa cum laude)

10/93 – 09/95 **Technical Chemistry studies** at the Georg-Simon-Ohm-Fachhochschule Nürnberg
Qualification: Subject oriented university admission

09/91 – 07/93 **Polytechnic school** (FOS, technical division), Weißenburg i. Bay.
Certificate: Fachhochschulreife (Technical college admission); grade: 1.5

Awards and Scholarships

Regensburg award for women in Science and Art

Habilitation scholarship of the Bavarian program to achieve equality for women in research and teaching

Liebig scholarship from the Fonds der Chemischen Industrie (FCI)

Postdoctoral scholarship from the Deutschen Akademie der Naturforscher Leopoldina

Kekulé scholarship from the FCI

Zerweck diploma award from the FAU Erlangen-Nürnberg

Summer academy scholarship in Sarntal, Südtirol from the FAU Erlangen-Nürnberg

Graduate direct exchange program scholarship from the FAU Erlangen-Nürnberg

Special skills and Activities

Computer skills: Microsoft-Office, software for graphics (vector- and pixel-based), analytics (NMR, LC-MS, IR, X-Ray, curve fitting), literature data base, ChemOffice

Languages: German, English

Co-organization of events/host of discussions (8/5)

Research talks (35)

Publications/patents and patent applications (35/2)

Film project: Organic chemistry laboratory course films (4)

Talks for the general public including tours in the Botanical Gardens (10)

Supervising dissertations (Master of Education/Bachelor/Diploma/Master/Ph. D.) (6/21/5/13/5)

Hobbies

Hiking, cycling, mountaineering, cross-country skiing, Shakespeare, scuba-diving

Regensburg, January 22, 2019

ATTACHMENT 1: PUBLICATION LIST

PD Dr. Sabine Amslinger

Publications in peer-reviewed journals

1. Geibel, S.; Barth, A.; Amslinger, S.; Jung, A. H.; Burzik, C.; Clarke, R. J.; Givens, R. S.; Fendler, K. P-3-[2-(4-hydroxyphenyl)-2-oxo]ethyl ATP for the rapid activation of the Na^+,K^+-ATPase. *Biophys. J.* **2000**, *79*, 1346-1357.
2. Hecht, S.; Kis, F.; Eisenreich, W.; Amslinger, S.; Wungsintaweekul, J.; Herz, S.; Rohdich, F.; Bacher, A. Enzyme-assisted preparation of isotope-labeled 1-deoxy-D-xylulose 5-phosphate. *J. Org. Chem.* **2001**, *66*, 3948-3952.
3. Hecht, S.; Eisenreich, W.; Adam, P.; Amslinger, S.; Kis, K.; Bacher, A.; Arigoni, D.; Rohdich, F. Studies on the nonmevalonate pathway to terpenes: The role of the GcpE (IspG) protein. *Proc. Natl. Acad. Sci. USA* **2001**, *98*, 14837-14842.
4. Amslinger, S.; Kis, K.; Hecht, S.; Adam, P.; Rohdich, F.; Arigoni, D.; Bacher, A.; Eisenreich, W. Biosynthesis of terpenes. Preparation of (*E*)-1-Hydroxy-2-methyl-but-2-enyl 4-diphosphate, an intermediate of the deoxyxylulose phosphate pathway. *J. Org. Chem.* **2002**, *67*, 4590-4594.
5. Rohdich, F.; Hecht, S.; Gärtner, K.; Adam, P.; Krieger, C.; Amslinger, S.; Arigoni, D.; Bacher, A.; Eisenreich, W. Studies on the nonmevalonate terpene biosynthetic pathway: Metabolic role of IspH (LytB) protein. *Proc. Natl. Acad. Sci. USA* **2002**, *99*, 1158-1163.
6. Timberlake, G. T.; Reddy, G. K.; Stehno-Bittel, L.; Weber, J. F.; Amslinger, S.; Givens, R. S. Photoactivated coumaryl-diazopyruvate fluorescent label for amine functional groups of tissues containing type-I collagen. *Photochem. Photobiol.* **2002**, *76*, 473-479.
7. Hecht, S.; Amslinger, S.; Jauch, J.; Kis, K.; Trentinaglia, V.; Adam, P.; Eisenreich, W.; Bacher, A.; Rohdich, F. Studies on the non-mevalonate isoprenoid biosynthetic pathway. Simple methods for preparation of isotope-labeled (*E*)-1-hydroxy-2-methylbut-2-enyl 4-diphosphate. *Tetrahedron Lett.* **2002**, *43*, 8929-8933.
8. Givens, R. S.; Timberlake, G. T.; Conrad, P. G.; Yousef, A. L.; Weber, J. F.; Amslinger, S. A photoactivated diazopyruvoyl cross-linking agent for bonding tissue containing type-I collagen. *Photochem. Photobiol.* **2003**, *78*, 23-29.
9. Rohdich, F.; Zepeck, F.; Adam, P.; Hecht, S.; Kaiser, J.; Laupitz, R.; Gräwert, T.; Amslinger, S.; Eisenreich, W.; Bacher, A.; Arigoni, D. The deoxyxylulose phosphate pathway of isoprenoid biosynthesis: Studies on the mechanisms of the reactions catalyzed by IspG and IspH protein. *Proc. Natl. Acad. Sci. USA* **2003**, *100*, 1586-1591.
10. Amslinger, S.; Hirsch, A.; Hampel, F. Synthesis of a biotinated amphiphile. *Tetrahedron* **2004**, *60*, 11565-11569.
11. Gräwert, T.; Kaiser, J.; Zepeck, F.; Laupitz, R.; Hecht, S.; Amslinger, S.; Schramek, N.; Schleicher, E.; Weber, S.; Haslbeck, M.; Buchner, J.; Rieder, C.; Arigoni, D.; Bacher, A.; Eisenreich, W.; Rohdich, F. IspH protein *of Escherichia coli*: Studies on iron-sulfur cluster implementation and catalysis. *J. Am. Chem. Soc.* **2004**, *126*, 12847-12855.
12. Laupitz, R.; Hecht, S.; Amslinger, S.; Zepeck, F.; Kaiser, J.; Richter, G.; Schramek, N.; Steinbacher, S.; Huber, R.; Arigoni, D.; Bacher, A.; Eisenreich, W.; Rohdich, F. Biochemical characterization of *Bacillus subtilis* type II isopentenyl diphosphate isomerase, and phylogenetic distribution of isoprenoid biosynthesis pathways. *Eur. J. Biochem.* **2004**, *271*, 2658-2669.

13. Gandon, V.; Leboeuf, D.; Amslinger, S.; Vollhardt, K. P. C.; Malacria, M.; Aubert, C. Chemo-, Regio-, and Stereoselective Cobalt-Mediated [2+2+2]Cycloaddition of Alkynyl Boronates to Alkenes. Preparation of a New Class of Diborylated Compounds: 1,3- and 1,4-Diboryl-1,3-cyclohexadienes. *Angew. Chem. Int. Ed.* **2005**, *44*, 7114-7118.
14. Amslinger, S.*; Hecht, S.; Rohdich, F.; Eisenreich, W.; Adam, P.; Bacher, A.; Bauer, S.* Stimulation of Vγ9/Vδ2 T-lymphocyte proliferation by the isoprenoid precursor, (*E*)-1-hydroxy-2-methyl-but-2-enyl 4-diphosphate. *Immunobiology* **2007**, *212*, 47-55.
15. Amslinger, S.; Aubert, C.; Gandon, V.; Malacria, M.; Paredes, E.; Vollhardt, K. P. C. Cobalt-Mediated [2+2+2] Cycloaddition of Alkynyl Boronates to Indole and Pyrrole Double Bonds. *Synlett* **2008**, 2056-2060.
16. Amslinger, S.* The Tunable Functionality of α,β-Unsaturated Carbonyl Compounds Enables Their Differential Application in Biological Systems. *ChemMedChem* **2010,** 5, 351-356.
17. Romanski, S.; Kraus, B.; Schatzschneider, U.; Neudörfl, J.-M.; Amslinger, S.*; Schmalz, H.-G.* Acyloxy-butadiene-Fe$(CO)_3$ Complexes as Enzyme-Triggered CO-Releasing Molecules (ET-CORMs). *Angew. Chem. Int. Ed*. **2011**, *50*, 2392-2396.
18. Amslinger, S.*; Lindner, S. K. Limno-CP: A Natural Product-inspired 5-Aryl-3(2*H*)-furanone as Scaffold for a Library of α-Modified Enones. *Synthesis*, **2011**, 2671-2683.
19. Romanski, S.; Kraus, B.; Guttentag, M.; Schlundt, W.; Rücker, H.; Adler, A.; Neudörfl, J.-M.; Alberto, R.; Amslinger, S.*; Schmalz, H.-G.* Acyloxybutadiene tricarbonyl iron complexes as enzyme-triggered CO-releasing molecules (ET-CORMs): a structure-activity relationship study. *Dalton Trans.* **2012**, *41,* 13862-13875.
20. Romanski, S.; Rücker, H.; Stamellou, E.; Guttentag, M.; Neudörfl, J.-M.; Alberto, R.; Amslinger, S.; Yard, B.; Schmalz, H.-G. Iron Dienylphosphate Tricarbonyl Complexes as Water-Soluble Enzyme-Triggered CO-Releasing Molecules (ET-CORMs). *Organometallics* **2012**, *31*, 5800-5809.
21. Amslinger, S.*; Al-Rifai, N.; Winter, K.; Wörmann, K.; Scholz, R.; Baumeister, P.; Wild, M. Reactivity Assessment of Chalcones by a Kinetic Thiol Assay. *Org. Biomol. Chem.* **2013**, *11*, 549-554.
22. Romanski, S.; Stamellou, E.; Jaraba, J. T.; Storz, D.; Krämer, B. K.; Hafner, M.; Amslinger, S.; Schmalz, H. G.; Yard, B. A. Enzyme-triggered CO-releasing molecules (ET-CORMs): Evaluation of biological activity in relation to their structure. *Free Radic. Biol. Med.* **2013**, *65*, 78-88.
23. Kreuzer, A.; Kerres, S.; Ertl, T.; Rücker, H.; Amslinger, S.; Reiser, O. Asymmetric Synthesis of both Enantiomers of Arteludovicinolide A. *Org. Lett.* **2013**, *15*, 3420-3423.
24. Al-Rifai, N.; Rücker, H.; Amslinger, S.* Opening or Closing the Lock? – When Reactivity is the Key to Biological Activity. *Chem. Eur. J.* **2013**, *19*, 15384-15395.
25. Pinz, S.; Unser, S.; Brueggemann, S.; Besl, E.; Al-Rifai, N.; Petkes, H.; Amslinger, S.*; Rascle, A.* The Synthetic α-Bromo-2′,3,4,4′-tetramethoxychalcone (α-Br-TMC) Inhibits the JAK/STAT Signaling Pathway, *PLoS ONE* **2014**, *9,* e90275.
26. Riano-Arias, F.; Karunakaran, M. M.; Starick, L.; Li, J.; Scholz, C. J.; Kunzmann, V.; Olive, D.; Amslinger, S.; Herrmann, T. Vγ9Vδ2 TCR-activation by phosphorylated antigens requires butyrophilin 3 A1 (BTN3A1) and additional genes on human chromosome 6. *Eur. J. Immunol.* **2014**, *44*, 2571-2576.
27. Jirásek, P.; Amslinger, S.*; Heilmann, J.* Synthesis of Natural and Non-natural Curcuminoids and their Neuroprotective Activity against Glutamate-induced Oxidative Stress in HT-22 Cells, *J. Nat. Prod.* **2014**, *77*, 2206-2217.
28. Rücker, H.; Amslinger, S.* Identification of heme oxygenase-1 (HO-1) stimulators by a convenient, ELISA-based HO-1 activity assay, *Free Radic. Biol. Med.* **2015**, *78*, 135-146.
29. Rücker, H.; Al-Rifai, N.; Rascle, A.; Gottfried, E.; Brodziak-Jarosz, L.; Gerhäuser, C.; Dick, T. P.; Amslinger, S.* Enhancing the anti-inflammatory activity of chalcones by tuning the Michael acceptor site. *Org. Biomol. Chem.* **2015**, *13,* 3030-3047.
30. Kaufmann, K. B.; Al-Rifai, N.; Ulbrich, F.; Schallner, N.; Rücker, H.; Enzinger, M.; Petkes, H.; Pitzl, S.; Goebel, U.*; Amslinger, S.* The Cytoprotective Effects of *E*-α-(4-Methoxyphenyl)-2′,3,4,4'-Tetra-methoxychalcone (*E*-α-*p*-OMe-C_6H_4-TMC) - A Novel and Non-Cytotoxic HO-1 Inducer. *PLoS ONE* **2015**, *10*, e0142932.

31. Brodziak-Jarosz, L.; Fujikawa, Y.; Pastor-Flores, D.; Kasikci, S.; Jirásek, P.; Pitzl, S.; Owen, R. W.; Gerhäuser, C.;* Amslinger, S.*; Dick, T. P.* A click chemistry approach identifies target proteins of xanthohumol. *Mol. Nutr. Food Res.* **2016**, *60*, 737-748.
32. Kaufmann, K. B.; Schallner, N.; Ulbrich,F.; Rücker, H. Amslinger, S.*; Goebel, U.* The anti-inflammatory effects of *E*-α-(*p*-methoxyphenyl)-2′,3,4,4'-tetramethoxychalcone are mediated via HO-1 induction. *Int. Immunopharmacol.* **2016**, *35*, 99-110.
33. Jobst, B.; Weigl, J.; Michl, C.; Vivarelli, F.; Pinz, S.; Amslinger, S.; Rascle, A. Inhibition of interleukin-3- and interferon-α-induced JAK/STAT signaling by the synthetic α-X-2′,3,4,4′-tetramethoxychalcones α-Br-TMC and α-CF_3-TMC. *Biol. Chem*. **2016**, *397*, 1187-1204.
34. Starick, L.; Riano, F.; Karunakaran, M. M.; Kunzmann, V.; Li, J.; Kreiss, M.; Amslinger, S.; Scotet, E.; Olive, D.; De Libero, G.; Herrmann, T. Butyrophilin 3A (BTN3A, CD277)-specific antibody 20.1 differentially activates Vγ9Vδ2 TCR-clonotypes and interferes with phosphoantigen activation. *Eur. J. Immunol.* **2017**, *47*, 982-992.
35. Mattarei, A.; Enzinger, M.; Gu, S.; Karunakaran, M. M.; Kimmel, B.; Berner, N.; Adams, E. J.; Herrmann, T.; Amslinger, S.* A Photo-Crosslinkable Biotin Derivative of the Phosphoantigen (*E*)-4-Hydroxy-3-Methylbut-2-Enyl Diphosphate (HMBPP) Activates Vγ9Vδ2 T Cells and Binds to the HMBPP Site of BTN3A1. *Chem. Eur. J.* **2017**, *23*, 11945-11954.

Patents

Adam, P.; Amslinger, S.; Bacher, A.; Eisenreich, W.; Hecht, S.; Rohdich, F. Intermediates and Enzymes of the Non-Mevalonate Isoprenoid Pathway. Int. Patent Appl., 2002PCT/WO02083720.

Amslinger, S.; Kraus, B.; Romanski, S.; Schmalz, H.-G.; Yard, B. Acyloxy- and phosphoryloxy-butadiene-$Fe(CO)_3$ complexes as enzyme-triggered CO-releasing molecules. US Patent Appl. filed 02/2011.

Book reviews

Amslinger, S.; Zeitler, K., Asymmetric Organic Synthesis with Enzymes. Edited by Vicente Gotor, Ignacio Alfonso, and Eduardo García-Uridiales. *ChemSusChem* **2008**, *1*, 1026-1027.

Amslinger, S. Drug Discovery from Natural Products. Edited by Olga Genilloud and Francisca Vicente. *ChemMedChem*, **2013**, *8*, 1416-1417.

Authorships/Invited articles

Amslinger, S. RÖMPP-Online, Organic single compounds, Thieme Verlag: Stuttgart, April 2008 – December 2009.

Amslinger, S. "Make it stick" Kovalente Inhibitoren in der Medizinforschung. *Blick in die Wissenschaft* **2015**, *32*, 42-48.

Film project

Production of four laboratory films to complement the NOP platform. NOP = Nachhaltigkeit im organisch-chemischen Praktikum.
Scientific head, narrator, director, script, participation in sound and editing; January 2014 – May 2014.

Links (AV-Portal of the TIB-Braunschweig):

- Teaser for the NOP videos: https://av.getinfo.de/media/14316
- Oxidation von Anthracen zu Anthrachinon mit Kaliumpermanganat: https://av.getinfo.de/media/14315
- Isolierung von Piperin aus schwarzem Pfeffer: https://av.getinfo.de/media/14314
- H_2O-Eliminierung aus 4-Hydroxy-4-methyl-2-pentanon: https://av.getinfo.de/media/14313
- Oxidation von Anthracen zu Anthrachinon mit Ammoniumcer(IV)-nitrat: https://av.getinfo.de/media/14312

Talks

- Synthesis and Photochemistry of *p*-Hydroxyphenacyl Esters Which Act as Biochemically Relevant Phototriggers. Book of Abstracts, first KU Undergraduate Research Symposium, Lawrence, KS, USA, February 21, 1998, VI-13.
- Chemistry and Immunobiology of Intermediates of Isoprenoid Biosynthesis, speaker at the organic lecture series of the Department of Chemistry of the University of Kansas, Lawrence, KS, USA, May 12, 2005.
- Bioorganic Chemistry - Can Chemists and Biologists be Friends? Speaker at the organic lecture series, Universität Regensburg, December 12, 2005.
- Chemistry studies abroad – more than changing the lab, speaker at the organic lecture series of the Department of Chemistry of the University of Kansas, Lawrence, KS, USA, September 27, 2007.
- Synthesis of α,β-unsaturated Carbonyl Compounds of Natural Origin and Evaluation of Their Heme Oxygenase-1-Stimulation, 11. Steinheimer Gespräche, Rödermark, May 29, 2008.
- Wissenschaft zwischen den Kulturen, Postdoc-Erfahrungsbericht USA Westküste: University of California Berkeley, Die vernachlässigten Kompetenzen: Seminar für Nach-wuchswissenschaftlerinnen und zukünftige Führungskräfte, Frankfurt, October 7, 2008.
- α,β-Unsaturated Carbonyl Compounds as Tool to Fine Tune Biological Activity. 2nd Young Investigator's Workshop, Regensburg, August 27, 2010.
- The α,β -Unsaturated Carbonyl Subunit as Tool to Fine Tune Biological Activity. 19th Young investigator symposium bioorganic chemistry, Göttingen, September 29, 2010.
- Wissenschaft zwischen den Kulturen, Postdoc-Erfahrungsbericht USA Westküste: University of California Berkeley, Die vernachlässigten Kompetenzen: Seminar für Nachwuchswissenschaftlerinnen und zukünftige Führungskräfte, Frankfurt, October 4, 2010.
- Die α,β-ungesättigte Carbonyleinheit als Werkzeug zur Feinjustierung biologischer Aktivität. Conference of University Professors of Chemistry (Chemiedozententagung), Mainz, March 15, 2011.
- ET-CORMS – Their Toxicity and Influence on the Activity of iNOS in Murine Macrophages RAW264.7, meeting research collaboration, Köln, July 24, 2011.
- The α,β-Unsaturated Carbonyl Unit for the Modulation of Reactivity and Biological Activity, local meeting of the FCI, Erlangen, January 28, 2012.
- The α,β-Unsaturated Carbonyl Unit for the Modulation of Reactivity and Biological Activity, Conference of University Professors of Chemistry (Chemiedozententagung), Freiburg, March 06, 2012.
- ET-CORMS – Their Toxicity and Influence on the Activity of iNOS in Murine Macrophages RAW264.7, meeting research collaboration, Köln, March 26, 2012.
- Manipulation of the α,β-Unsaturated Carbonyl Unit of Chalcones as Tool to Fine-tune Reactivity and Biological Activity, 21st Young investigator symposium bioorganic chemistry, Rostock, September 3, 2012.
- Modulierung der Reaktivität und biologischen Aktivität von Enonen, lecture at the Universität Düsseldorf, January 11, 2013.
- Modulation of reactivity and biological activity of enones, lecture at the Università degli studi di Padova, February 19, 2013.
- Modulierung der Reaktivität und biologischen Aktivität von Enonen, lecture at the Universität Hamburg, March 7, 2013.
- Enone Modification for Activity Tuning, Conference of University Professors of Chemistry (Chemiedozententagung), Berlin, March 13, 2013.
- Enone Modification for Activity Tuning, Meeting with the Indian Delegation of the Lindau Nobel Laureates Conference, July 08, 2013.
- Electrophiles for Activity Tuning, INDIGO-Conference, Regensburg, October 9, 2013.
- ET-CORMs: Both CO and the degradation products are crucial for biological activity, meeting research collaboration, Köln, November 22, 2013.
- Utilizing Aromatic Enones to Influence Biological Activity, Conference of University Professors of Chemistry (Chemiedozententagung), Paderborn, March 11, 2014.
- Modulation of the Reactivity and Biological Activity of Enones, habilitation lecture, Regensburg, May 19, 2014.
- Utilizing Aromatic Enones to Influence Biological Activity, 23rd Young investigator symposium bioorganic chemistry, Tübingen, September 26, 2014.

- Chemie und Biologie - einfach beste Freunde! (Modulation of the Reactivity and Biological Activity of Enones), awardee lecture, Regensburg Award for women in Science and Art, Regensburg, November 21, 2014.
- Modulation of the Reactivity and Biological Activity of Enones, lecture at the Universität Bremen, January 27, 2015.
- Employing the Enone Functionality to Modulate Biological Activity, Conference of University Professors of Chemistry (Chemiedozententagung), Regensburg, March 04, 2015.
- Employing the Enone Functionality to Modulate Biological Activity, lecture at the Universität Bayreuth, March 19, 2015.
- Employing the Enone Functionality to Modulate Biological Activity, lecture at the Technische Universität München in Garching, July 2, 2015.
- Anti-inflammatory Activities of 2,3-Dihydro-1,3,4-oxadiazoles, 24th Young investigator symposium bioorganic chemistry, Hamburg, September 24, 2015.
- Electrophile fine-tuning to modulate biological activities, Indigo-Meeting, Lucknow, India, February 22, 2016.
- Chemical Reactivity Tuning for Drug Development, 6th International Symposium on Current Trends in Drug Discovery and Research, CTDDR-2016, Lucknow, India, February 27, 2016.
- Anti-inflammatory Activities of 2,3-Dihydro-1,3,4-oxadiazoles, Conference of University Professors of Chemistry (Chemiedozententagung), Heidelberg, March 22, 2016.
- Enhancement of Biological Activity by Electrophile Tuning, 25th Young investigator symposium bioorganic chemistry, Jena, September 21, 2016.
- Modulation of Biological Activity with Different Tuned Electrophiles, Conference of University Professors of Chemistry (Chemiedozententagung), Marburg, March 14, 2017.

Talks for the general public and high school students

- Week of the Botanical Gardens of the Universität Regensburg
  Talk: „Colors of plants – from beauty to utility“, June 14, 2011
  Tour in the gardens: „Energy resources from plants“, June 10, 2012
  Tour in the gardens: „Energy resources from plants“, June 9, 2013
  Tour in the gardens: „Not only round and sweet: berries and other delights“, June 15, 2014
  Tour in the gardens: „Not only round and sweet: berries and other delights“, June 14, 2015
  Tour in the gardens: „To be or not to Be? How yew, aconite and violet become Hamlet's destiny“, June 12, 2016
  Tour in the gardens: „Plant colors – Diversity from nature's paintbox“, June 10, 2018

- IJSO-Training Camp 2011 at the Universität Regensburg for high school students, Chemistry of everyday life: „Chemistry – nothing is more natural or When everyday life hits chemistry (The mountaineering tour)“, September 17, 2011
- Talk at the open day of the Universität Regensburg "Chemistry of everyday life: „Chemistry – nothing is more natural or When everyday life hits chemistry (The mountaineering tour)“, September 24, 2011
- Talk at the Carl-Friedrich-Gauß high school in Schwandorf. Lecture within the award ceremony of the competition „Forscherfrösche“, Chemistry of everyday life: „Chemistry – nothing is more natural or When everyday life hits chemistry (The mountaineering tour)“, November 21, 2013

Host of panel discussions

- Panel discussion with the topic „Work-Life Balance“: How can successful female scientists manage to organize professional and private challenges? (together with Prof. Birgit Weber), at the occasion of: Lost skills: seminar for young female scientist and future leaders, Frankfurt, October 04, 2010.
- Panel discussion with the topic „Career pathways“: What do careers in industry and academia look like? And how do partners and family fit in there? (together with Dr. Sabine Schneider), at the occasion of: A

strategic and successful communication: seminar for young female scientist and future leaders, Heidelberg, October 08, 2012; Frankfurt, October 01, 2014 and October 07, 2016.

Posters

- Amslinger, S.; Vollhardt, K. P. C. Applying Cobalt-mediated [2+2+2] Cyclizations of Borylated Alkynes to Form Polycyclic Structures. Book of Abstracts GSO-Meeting September 9 – 11, 2005, San Diego, CA, USA.
- Amslinger, S.; Vollhardt, K. P. C. Applying Cobalt-mediated [2+2+2] Cyclizations of Borylated Alkynes to Form Polycyclic Structures. Abstracts of Papers, 231st ACS National Meeting, Atlanta, GA, USA, March 26 – 30, 2006, ORGN-567.
- Amslinger, S.; Vollhardt, K. P. C. Applying Cobalt-mediated [2+2+2] Cyclizations of Borylated Alkynes to Form Polycyclic Structures. Tagung: Ergebnisse des Leopoldina-Föderprogramms V, Halle (Saale), November 17 – 18, 2006.
- Amslinger, S.*; Lindner, S. K.; Rücker, H. M.; Baumeister, P. F.; Wörmann, K.; Scholz, R. α,β-Unsaturated Carbonyl Compounds as Tool to Fine Tune Biological Activity. New Frontiers in (Bio)Chemistry from Nanopattering to Toxicity, local meeting of the scholars of the Fonds der Chemischen Industrie (FCI), Garching, February 8, 2010.
- Lindner, S. K.; Rücker, H. M.; Amslinger, S.* Synthesis and Biological Evaluation of α,β-Unsaturated Compounds: A Promising Approach Towards Inflammatory Diseases, 3rd EuCheMS Nürnberg, August 29 – September 2, 2010.
- Rücker, H. M.; Lindner, S. K.; Amslinger, S.* Novel screening assay for α,β-unsaturated carbonyl compounds towards their heme oxygenase-1 induction, 3rd EuCheMS Nürnberg, August 29 – September 2, 2010.
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