Prof. Dr. Thomas Magauer

Chair of Organic Chemistry – Synthesis & Synthetic Methodology
Head of the Department of Organic Chemistry
Centre of Chemistry and Biomedicine CCB
University of Innsbruck
Innrain 80–82, L02.012
6020 Innsbruck, Austria
ORCID-ID 0000-0003-1290-9556
thomas.magauer@uibk.ac.at
www.uibk.ac.at/organic/magauer

Academic Positions

Since 2017	**Full Professor**
	University of Innsbruck, Austria
2012 – 2017	**Assistant Professor**
	Ludwig Maximilian University of Munich, Germany

Education

2010 – 2012	**Postdoctoral Studies - FWF Erwin Schrödinger Fellow**
	Harvard University, USA (Advisor: Prof. A. G. Myers)
2007 – 2009	**Graduate Studies**
	University of Vienna, Austria (Advisor: Prof. J. Mulzer)
2002 – 2007	**Undergraduate Studies**
	University of Vienna, Austria (Advisor: Prof. J. Mulzer)

Awards and Fellowships

2022	Research Award by the Südtiroler Sparkasse
2021	Liechtenstein Research Award
2019	Scientific Research Award of the Innsbruck Municipal Council
2017	DECHEMA Early-Career Researcher Prize for Natural Product Research
2017	Margaret L. Goering and Harlan L. Goering Visiting Professor in Organic Chemistry
2016	Arnold Sommerfeld-Prize of the Bavarian Academy of Sciences
2016	Dozentenpreis of the Chemical Industry Fund
2016	ORCHEM Prize of the German Chemical Society
2016	ADUC Prize of the German Chemical Society
2015	Dr. Klaus Römer-Foundation Young Investigator Award
2015	JSP Fellowship 50th Bürgenstock Conference
2015	BASF 150 Years Science Symposium Travel Grant Awardee
2013	EU Commission Fellow Lindau Nobel Laureate Meeting
2012	Liebig-Fellowship of the Chemical Industry Fund

2011	Doc PhD Award
2010	GÖCH PhD Thesis Award, Vienna
2010	DSM Science and Technology Awards Finalist
2009	FWF Erwin Schrödinger Postdoctoral Fellowship

Funding

2025	Bayer CropScience AG RUST Research Collaboration
2024	Bayer CropScience AG HX Research Collaboration
2024	FWF Stand-Alone Project "Exploring the Chemistry of Octadride Natural Products"
2023	Bayer CropScience AG HyPag Research Collaboration
2022	RedBull REDBEM Research Collaboration
2022	Bayer CropScience AG LoCoAg Research Collaboration
2022	ERC-CoG Grant of the European Research Council "CRAFTMOL"
2016	Bayer CropScience AG Research Grant: Phase I to V
2020	FWF Stand-Alone Project "Synthesis of Polycyclic Terpenoids Enabled by C–H Oxidation"
2019	Member of Marie Skłodowska-Curie COFUND-Program ARDRE
2018	FWF Stand-Alone Project "High-Pressure in Total Synthesis"
2017	ERC-STRG Grant of the European Research Council "HALODRUGSYN"
2017	LFU-MUI Collaborative Grant (Dr. Pallua)
2016	Funding of the Dr. Otto-Röhm-Gedächtnisstiftung
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 Researchers

Since 2012	11 Postdoctoral Fellows, 33 PhD and 38 Master Students

Teaching Activities

Since 2018	**Lecture – 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**, Department of Organic Chemistry, University of Innsbruck, AT

Since 2017	**Lecture – Organic Syntheses I**, 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

Selected Professional Activities

Since 2022	Chairman of the Sosnovsky Board of Trustees
Since 2021	Head of the Department of Organic Chemistry
Since 2021	Member of the Board of the Faculty and Curriculum Commission
Since 2021	Young Science-Ambassador of the OEAD
2019–2024	Head of the Austrian Chemical Society (GÖCH) Section Tirol
Since 2018	Member of the Young Academy of the Austrian Academy of Sciences (ÖAW)
Since 2018	Member of the CMBI - Center for Molecular Biosciences Innsbruck
2015–2017	Member of the Collaborative Research Center SFB 749 "Reactive Intermediates" (DFG)
2014–2017	Member of the Collaborative Research Center SFB TRR 152 "TRiPs to Homeostasis" (DFG)
2013–2017	Member of the Young Center of Advanced Studies (CAS^{Y})

Research Interests

Organic Synthesis, Total Synthesis; Natural Product Chemistry; Synthetic Methodology; C–H Bond Activation; High-Pressure Chemistry, Medicinal Chemistry; Heterocycles.

Publications

Peer-Reviewed

75. Context-Dependent Activities of Mitrephorone Link Lipid Redirection, Anti-Inflammatory Action, and Ferroptosis Control to Hepatocyte Protection. L. Waltl, L. A. Wein, L. Bereuter, F. Su, H. Barta, L. Le Xuan, D. Holubek, Z. Mahmoudi, K. Puskac, A. Siller, P. Schlenke, H. Schennach, E.-M. Pferschy-Wenzig, H. Schött, S. Racedo, S. C. Koeberle, **T. Magauer**, A. Koeberle, *Theranostics* **2026**, DOI: 10.7150/thno.127100.

74. Nano bio-responsive systems avoiding methicillin resistant Staphylococcus aureus colonization on an implant surface. M. Blanco Massani, A. Grobelny, M. Badart, S. Diaz-Coello, **T. Magauer**, S. Meile, A. Knoll, L. Molnar, M. J. Loessner, M. Schmelcher, D. C. Coraça-Huber, S. Steixner, C. Griesser, J. Kunze-Liebhäuser, S. Zapotoczny, A. Bernkop-Schnürch, *Mater. Des.* **2026**, *262*, 115507. DOI: 10.1016/j.matdes.2026.115507.

73. Unified Total Synthesis of Phrymarolin and Haedoxan Natural Products. J. Paciorek, A. Guy, A. Sudau, D. Barber, **T. Magauer***, *J. Am. Chem. Soc.*, **2026**, *147*, 46461–46470. DOI: *10.1021/jacs.5c16676*. *Chem*R*xiv* **2025**, *10.26434/chemrxiv-2025-t4s4h*.

72. One-pot synthesis of ethylmaltol from maltol. **I. Plangger*,** M. Jenny, G. Plangger, **T. Magauer***, *Beilstein J. Org. Chem.* **2025**, *21,* 2755-2760. DOI: *10.3762/bjoc.21.212*..

71. Total Synthesis of Dactyloquinone A and Spiroetherone A. G. Schoenn, C. Kouklovsky, R. Guillot, **T. Magauer**, G. Vincent, *Angew. Chem., Int. Ed.* **2025**, *64,* e202505270. DOI: 10.1002/anie.202505270. *Chem*R*xiv: doi.org/10.26434/chemrxiv-2025-91q45*.

70. Evolution of a Strategy for the Total Synthesis of the Ganoderma Meroterpenoid Ganoapplanin. N. Müller, O. Kováč, A. Rode, D. Atzl, C. Dietrich, A. V. Serna, S. Schaar, A. Paparesta, J. Lichtenegger, **T. Magauer***, *ChemistryEurope* **2025**, *3*, e202500020. DOI: *10.1002/ceur.202500020*.

69. Natural Product Synthesis Enabled by Radical-Polar Crossover Reactions. N. Müller, **T. Magauer**, O. Kováč*, *J. Org. Chem* **2025**, 90, 5083–6092. DOI: 10.1021/acs.joc.5c00306

68. Non-enzymatic methylcyclization of alkenes. I. Plangger, E. Schmidhammer, S. Schaar, K. Wurst, M. Podewitz, **T. Magauer***, *Nat. Chem.* **2025**, *17*, 904–910. DOI: 10.1038/s41557-025-01774-3.

67. Refining ligand poses in RNA/ligand complexes of pharmaceutical relevance: a perspective by QM/MM simulations and NMR measurements. G. L. Hoang, M. Röck, A. Tancredi, **T. Magauer**, D. Mandelli, J. Schulz, S. Krauss, G. Rossetti, M. Tollinger, P. Carloni, *J. Phys. Chem. Lett.* **2025***, 16,* 1702–1708. *DOI: 10.1021/acs.jpclett.4c03456*.

66. Asymmetric Total Synthesis of Glauconic and Glaucanic Acid. J. Paciorek, C. Steinborn, I. Gordy, I. Plangger, D. Schmutzler, D. Barber, K. Wurst, S. Riniker, **T. Magauer***, *Chem. Sci.* **2025**, *16*, 4159–4166. DOI: 10.1039/d4sc08332fDOI: 10.1039/d4sc08332f.

65. Development of a Triethylborane Mediated Giese Cyclization/Aldol Reaction Cascade for the Total Synthesis of Ganoapplanin. N. Müller, O. Kováč, A. Rode, D. Atzl, **T. Magauer***, *Synlett* **2025**, DOI: *10.1055/a-2501-407*9.

64. Development of a Synthetic Platform for Ent-Pimaranes Reveals their Potential as Novel Non-redox Active Ferroptosis Inhibitors. I. Plangger, A. Mühlsteiger, J. Berger, J. Feilner, K. Wurst, A. Koeberle, S. Koeberle*, **T. Magauer***, *Chem. Eur. J.* **2024**, e202403811. DOI: 10.1002/chem.202403811.

63. General Entry to Ganoderma Meroterpenoids: Synthesis of Applanatumol E, H and I, Lingzhilactone B, Meroapplanin B and Lingzhiol. A. Rode, N. Müller, O. Kováč, K. Wurst, **T. Magauer***, *Org. Lett.* **2024**, *26*, 9017–9021. DOI: 10.1021/acs.orglett.4c03192. *Chem*R*xiv:* doi.org/10.26434/chemrxiv-2022-svqft.

62. Total Synthesis of Ganoapplanin Enabled by a Radical Addition/Aldol Reaction Cascade. N. Müller, O. Kováč, A. Rode, D. Atzl, **T. Magauer***, *J. Am. Chem. Soc.* **2024**, *146*, 22937–22942. DOI: 10.1021/jacs.4c08291.

61. Reorganization of innate immune cell lipid profiles by bioinspired meroterpenoids to limit inflammation. L. Waltl, K. Speck, R. Wildermuth, F.-L. Haut, S. Permann, D. D'Avino, I. Cerqua, A. Siller, H. Schennach, A. Rossi, **T. Magauer**, A. Koeberle, *bio*R*xiv* **2024**, DOI: 10.1101/2024.05.24.595516.

60. Synthesis of the Tetracyclic Spiro-Naphthoquinone Chartspiroton. L. Röder, K. Wurst, **T. Magauer***, *Org. Lett.* **2024**, *26*, 3065–3068. DOI: 10.1021/acs.orglett.4c00695.

59. Synthesis of C3-epi -Virenose and Anomerically Activated Derivatives. L Röder, S. Torres Venegas, K. Wurst, **T. Magauer***, *Tetrahedron Lett.* **2024**, *140,* 155041. DOI: 10.1016/j.tetlet.2024.155041.

58. Divergent Polyene Cyclization for the Total Synthesis of Greenwayodendrines, Greenwaylactams, Polysin and Polyveoline, I. Plangger, T. Pinkert, K. Wurst, **T. Magauer***, *Angew. Chem., Int. Ed.* **2023**, *62,* e202307719. DOI: 10.1002/anie.202307719.

57. Total Syntheses of (+)-Waixenicin A, (+)-9-Deacetoxy-14,15-deepoxyxeniculin and (–)-Xeniafaraunol A, C. Steinborn, T. Huber, J. Lichtenegger, I. Plangger, K. Wurst, **T. Magauer***, *J. Am. Chem. Soc.* **2023**, *145,* 11811–11817. DOI: 10.1021/jacs.3c03366.

56. Investigations into Simplified Analogues of the Herbicidal Natural Product (+)-Cornexistin, C. Steinborn, A. Tancredi, C. Habiger, C. Diederich, J. Kramer, A. Reingruber, B. Laber, J. Freigang, G. Lange, D. Schmutzler, A. Machettira, G. Besong, **T. Magauer***, David M. Barber*, *Chem. Eur. J.* **2023**, *29,* e202300199. DOI: 10.1002/chem.202300199.

55. Total Synthesis of the Dihydrooxepine-Spiroisoxazoline Natural Product Psammaplysin A*,* J. Paciorek, D. Hoefler, K. R. Sokol, K. Wurst, **T. Magauer***, *J. Am. Chem. Soc.* ***2022, 144,*** 19704–19708. DOI: 10.1021/jacs.2c10010; ChemRxiv DOI: 10.26434/chemrxiv-2022-px26h; Highlighted in **SYNFACTS**: E. M. Carreira, H. Lindner, *Synfacts* **2023**, *19*, 5. DOI: 10.1055/s-0042-1753160.

54. Short, Divergent and Enantioselective Total Synthesis of Bioactive *ent*-Pimaranes. I. Plangger, K. Wurst, **T. Magauer***, *Org. Lett.* **2022**, *24*, 7151−7156. DOI: 10.1021/acs.orglett.2c02843.

53. KS0365, a novel activator of the transient receptor potential vanilloid 3 (TRPV3) channel, accelerates keratinocyte migration. M. Maier, S. Olthoff, K. Hill, C. Zosel, T. Magauer, L. Wein, M. Schaefer, *Br J Pharmacol.* **2022** *179*, 5290–5304. DOI: 10.1111/bph.15937.

52. A General Entry to Ganoderma Meroterpenoids: Synthesis of Lingzhiol via Photoredox Catalysis. A. Rode, K. Wurst, **T. Magauer***, *ChemRxiv Preprint*, **2022**. DOI: 10.26434/chemrxiv-2022-svqft.

51. Total Synthesis and Late-Stage C–H Oxidations of *ent*-Trachylobane Natural Products. L. A. Wein, K. Wurst, **T. Magauer***, *Angew. Chem., Int. Ed.* ***2022, 61, e202113829. (VIP Publication)*** DOI: 10.1002/anie.202113829.

50. Ring-Expansion of 1-Indanones to 2-Halo-1-naphthols as an Entry Point to Gilvocarcin Natural Products. I. Zamarija, B. Marsh, **T. Magauer***, *Org. Lett.* **2021**, *23*, 9221–9226. DOI: 10.1021/acs.orglett.1c03530.

49. Bifunctional Polyene Cyclizations: Synthetic Studies on Pimarane Natural Products. J. M. Feilner, I. Plangger, **T. Magauer***,*Chem. Eur. J.* **2021**, *27*, 12410–12421. DOI: 10.1002/chem.202101926.

48. Total Synthesis of Oxepin and Dihydrooxepin Containing Natural Products. K. R. Sokol, **T. Magauer***, *Synthesis* **2021**, *53*, 4187–4202. DOI: 10.1055/s-0037-1610776.

47. Synthesis of Pyrroles via Consecutive 6π-Electrocyclization/Ring-Contraction of Sulfilimines. F.-L. Haut, N. Feichtinger; I. Plangger, L. Wein, M. Müller, T.-N. Streit, K. Wurst, M. Podewitz, T**. Magauer***, *J. Am. Chem. Soc.* **2021**, *143*, 9002–9008. DOI: 10.1021/jacs.1c04835.

46. Evolution of a Strategy for the Total Synthesis of (+)-Cornexistin. R. E. Wildermuth, C. Steinborn, D. M. Barber, K. S. Mühlfenzl, M. Kendlbacher, P. Mayer, K. Wurst, **T. Magauer***, *Chem. Eur. J.* **2021**, *27,* 12181–12189. DOI: 10.1002/chem.202101849.

45. The 2nd Alpine Winter Conference on Medicinal and Synthetic Chemistry. A. Ciulli, L. Hamann, W. Jahnke, A. Kalgutkar, **T. Magauer**, T. Ritter, V. Steadman, S. D. Williams, G. Winter, K. Hoegenauer, K. H. Krawinkler, A. F. Stepan, *ChemMedChem* **2021**, *16*, 2417–2423. (Conference Report) DOI: 10.1002/cmdc.202100372.

44. Beyond the Isoprene Pattern: Bifunctional Polyene Cyclizations. J. M. Feilner, F. L. Haut, **T. Magauer***, *Chem. Eur. J.* **2021**, *27,* 7017–7021. (Concept Article) DOI: 10.1002/chem.202005157.

43. Rapid Assembly of Tetrasubstituted Furans via Pummerer-type Rearrangement. F. L. Haut, C. Habiger, L. A. Wein, K. Wurst, M. Podewitz*, **T. Magauer***, *J. Am. Chem. Soc.* **2021**, *143*, 1216–1223. DOI: 10.1021/jacs.0c12194.

42. Synthesis of Vicinal Quaternary All-Carbon Centers via Acid-catalyzed Cycloisomerization of Neopentylic Epoxides. JM. Schmid, K. R. Sokol, L. A. Wein, S. T. Torres Venegas, C.

Meisenbichler, K. Wurst, M. Podewitz, **T. Magauer*,** *Org. Lett.* **2020**, *22*, 6526–6531. DOI: 10.1021/acs.orglett.0c02296.

41. Total Synthesis of (+)-Cornexistin. C. Steinborn, R. E. Wildermuth, D. M. Barber, **T. Magauer*,** *Angew. Chem., Int. Ed.* **2020**, *59*, 17282–17285. DOI: 10.1002/anie.202008158.

40. A Transannular Polyene Tetracyclization for the Rapid Construction of the Pimarane Framework. J. M. Feilner, K. Wurst, **T. Magauer***, *Angew. Chem., Int. Ed.* **2020**, *59*, 12436–12439. *(Hot Paper)* DOI: 10.1002/anie.202003127.

39. Synthesis of (–)-Mitrephorone A via a Bio-inspired Late Stage C–H Oxidation of (–)-Mitrephorone B. L. A. Wein, K. Wurst, P. Angyal, L. Weisheit, **T. Magauer***, *J. Am. Chem. Soc.* **2019**, *141*, 19589–19593.

38. A Synthetic Entry to Polyfunctionalized Molecules through the [3+2]-Cycloaddition of Thiocarbonyl Ylides. F.-L. Haut, C. Habiger, K. Speck, K. Wurst, P. Mayer, J. N. Korber, T. Müller, **T. Magauer***, *J. Am. Chem. Soc.* **2019**, *141*, 13352−13357.

37. Ring-Expansion Approaches for the Total Synthesis of Salimabromide. M. Schmid, A. Grossmann, P. Mayer, T. Müller, **T. Magauer***, *Tetrahedron* **2019**, *75,* 3195–3215.

36. Total Synthesis of Salimabromide, a Tetracyclic Polyketide from a Marine Myxobacterium. M. Schmid, A. Grossmann, K. Wurst, **T. Magauer***, *J. Am. Chem. Soc.* **2018***, 140,* 8444–8447.

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**, *74,* 3348–3357.

34. 9-Membered Carbocycles: Strategies and Tactics for their Synthesis. T. Huber, R. Wildermuth, **T. Magauer***, *Chem. Eur. J.* **2018***, 24,* 12107–12120.

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. Sondermann, *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. Hugelhofer, **T. Magauer***, *J. Am. Chem. Soc.* **2016**, *138,* 6420–6423. Highlighted in ***SYNFACTS***: E. M. Carreira, H. Wolleb, *Synfacts* **2016**, *12*, 771.

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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 □ -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 Leucosceptrum 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 Expeditious 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 □ -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

University of Wuppertal, Germany, 11/2025
University of Olomouc, Czech Republic, 10/2025
University of Vienna, Austria 10/2025
JKU Linz, Austria, 10/2025
University of Edinburgh, UK, 09/2025
XL Biennial Meeting of the Royal Spanish Society of Chemistry, Spain, 06/2025
Beyond CCHF, online, 05/2025
TU Darmstadt, Germany, 01/2025

Gordon Research Conference - Natural Products and Bioactive Compounds, USA, 07/2024
57th Bürgenstock Conference, Switzerland, 05/2024

ICNS-CNRS, France, 10/2023
ICMMO, France, 10/2023
Chemistry at the Interface of Biology and Medicine, Greece, 09/2023
Givaudan, Switzerland, 07/2023
IOBC Prague, Czech Republic, 05/2023
Masaryk University, Czech Republic, 05/2023

INCEM Symposium, Austria, 07/2022
ETOC Symposium, Netherlands, 02/2022 (Zoom)
OEAW Young Science E-Visit, Austria 01/2022 (BB)

University of Oxford, UK, 12/2021 (Zoom)
Basler Chemische Gesellschaft, Switzerland, 09/2021 (Zoom)
GDCh-Wissenschaftsforum, Germany, 09/2021 (Zoom)
Bayer Crop Science, Germany, 04/2021 (Teams)
University of Cologne, Germany, 01/2021 (Zoom)

Firmenich, Switzerland, 09/2020 (Zoom)
Massachusetts Institute of Technology (MIT), USA, 02/2020

Bayer Crop Science, Germany, 11/2019
California Institute of Technology (Caltech), USA, 09/2019

UCLA, USA, 09/2019
UC Irvine, USA, 09/2019
UCSD, USA, 09/2019
Scripps La Jolla, USA, 09/2019
BASF, Germany, 09/2019
European Symposium on Organic Chemistry (ESOC), Austria, 07/2019
GdCh Lecture, Germany, 09/2019

Bayer AG, Germany, 12/2018
MPI für Kohlenforschung, Germany, 12/2018
Symposium on Frontiers of Natural and Biomimetic Drugs, China, 10/2018
EPFL, Switzerland, 10/2018
Janssen Pharmaceuticals, Belgium, 07/2018
Boehringer Ingelheim, Germany, 06/2018
TU Vienna, Austria, 05/2018
Boehringer Ingelheim, Austria, 05/2018
University of Vienna, Austria, 05/2018
TU Vienna, Austria, 05/2018
WissensDurst Festival, Austria, 04/2018
Oxford University, United Kingdom, 02/2018
CMBI Lecture at the University of Innsbruck, Austria, 01/2018

Yale University – Sigma Aldrich Lecture, USA, 12/2017
Aahrus University – TOKS, Denmark, 11/2017
University of Zurich, Switzerland, 09/2017
ICIQ, Spain, 09/2017
Syngenta Crop Protection, Switzerland, 08/2017
Suisse Summer School, Switzerland, 08/2017
Novartis Pharma AG, Switzerland, 08/2017
ETH Zurich, Switzerland, 03/2017
NYU, USA, 03/2017
University of Wisconsin – Madison, USA, 02/2017

University of Ulm, Germany, 12/2016
University of Hannover, Germany, 11/2016
University of Innsbruck, Austria, 11/2016
ORCHEM Conference, Germany, 09/2016
Bayer Crop Science, Germany, 07/2016
URCUP, Germany, 07/2016
TU Berlin, Germany, 07/2016
Bayer Pharma AG, Germany, 04/2016
GdCh Chemiedozententagung, Germany, 03/2016
University of Münster, Germany, 03/2016
SFB 749 Symposium, Germany, 03/2016
28. Irseer Naturstofftage, Germany, 02/2016
University of Graz, Austria, 01/2016

Pacifichem 2015, USA, 12/2015
University of Marburg, Germany, 12/2015
TU Munich, Germany, 11/2015

Eberhard-Karls-Universität Tübingen, Germany, 11/2015
Beilstein Organic Chemistry Symposium, Germany, 09/2015
GÖCH 16. Austrian Chemistry Days, Austria, 09/2015
University of Basel, Switzerland, 09/2015
Bayer Pharma AG, Germany, 09/2015
SIOC - Chinese Academy of Sciences, China, 08/2015
Tianjin University, China, 08/2015
Nankai University, China, 08/2015
Peking University, China, 08/2015
Freiburg University, Germany, 07/2015
Boston University, USA, 06/2015
50th Bürgenstock Conference, Switzerland, 04/2015
University of Bayreuth, Germany, 03/2015
GdCh Chemiedozententagung, Germany, 03/2015

SFB TRR 152 Meeting Mont Sainte-Odile, France, 11/2014
Bioorganik Tübingen, Germany, 09/2014
URCUP - Undergraduate Research Conference on Molecular Sciences, Germany, 07/2014
Steinheimer Gespräche, Germany, 06/2014
GdCh Chemiedozententagung Paderborn, Germany, 03/2014

Johannes Keppler University, Austria, 12/2013
Bioorganik Münster, Germany, 09/2013