Curriculum Vitae

Professor Dr. Thomas L. Mindt

Head of Imaging Biomarkers at the LBIAD

Professional Assignments

2016-present	*Co-Founder of the Ludwig Boltzmann Institute Applied Diagnostics and Head of Imaging Biomarkers*, General Hospital of Vienna, **Medical University Vienna** (AT)
2017-present	*Lecturer* at the Department of Chemistry, **University of Vienna** (AT)
2015-present	*Honorary Professor in Radiopharmaceutical Chemistry,* **University of Basel** (CH)
2015-2016	*Visiting Professor in Radiopharmaceutical Sciences* (Sabbatical), **ETH Zurich** (CH)
2009-2015	*Assistant Professor in Radiopharmaceutical Chemistry, Chief Radiation Protection Officer* (2009-2014)*, Biosafety Officer* (2012-2015*)* **University of Basel Hospital**, (CH)
2005-2009	*Senior Scientist (2007-2009) Postdoctoral Fellow (2005-2006),* **ETH Zurich** (CH)
2003-2004	*Principle Scientist*, **Physical Science Inc.**, Andover, MA (US, *2003*), and **Absolute Science**, Cambridge, MA (US, *2004*)
1998-2002	*Research Fellow and Teaching Assistant*, **Brown University**, Providence, RI (US)
1996	*Internship*, **Novartis**, Montevideo (UY)
1988-1993	*Research Assistant*, Pharma R&D and ZFL, **Novartis**, Basel (CH)

Education

1998 - 2002	*Ph.D.* in Organic Chemistry, **Brown University**, Providence, RI (US)
1993 - 1997	*Eidg. Dipl. Chemical Engineer FH* (B.Sc., M.Sc) with Double Major in Organic Chemistry and Biotechnology, **University of Applied Science**, Winterthur (CH)
1985 - 1988	*Eidg. Dipl. Laboratory Research Assistant* in Organic Synthetic Chemistry, Apprenticeship with **Novartis**, Basel (CH)

Honors and Awards

2007	Young Investigator Award, Society of Radiopharmaceutical Sciences, **17th International Symposium on Radiopharmaceutical Sciences**, Aachen (DE)
2001	**Brown University** Dissertation Fellowship, Providence, RI (US)
1998 - 2001	Fellow of the Graduate Assistance in Areas of National Need Program of the US Department of Education, **Brown University**, RI (US)
2000	Elected Member of the Scientific Research Society Sigma Xi (US)
1999	William T. King Prize, **Brown University**, Providence, RI (US)
1998	Dr. Max Lüthi Honor (Swiss Chemical Society), **ETH** Zürich (CH)
1997	SVCT-Prize (Swiss Association of Chemists HTL), **University of Applied Science ZHW**, Winterthur (CH)

Teaching

2017-present	Lecturer of "Radioactive Metals in Medicine", Department of Chemistry, University of Vienna (AT)
2017-present	Co-Lecturer of "Radiopharmaceutical Technology and Experimental Nuclear Medicine", Department of Pharmacy, University of Vienna (AT)
2008-present	Lecturer of the EANM-certified postgraduate course "Radiopharmaceutical Chemistry/Radiopharmacy", ETH Zurich (CH)
2009-2015	Lecturer of "General and inorganic chemistry", "Radiation Safety" and "Radiopharmaceutical Sciences", Medical Faculty, University of Basel (CH)
2007-2009	Conducting laboratory sections of module III "Qualification for the medicinal application of radioactive compounds with humans", Swiss Society of Radio-pharmacy/Radiopharmaceutical Chemistry, ETH Zurich (CH)
2007-2008	Co-lecturer of the optional subject lecture: Metal Based Drugs and Drug Development, ETH Zurich (CH)
2005-2008	Lecturing and conducting laboratory sections, ETH Zurich (CH)
2000- 2001	Conducting problem-set sessions for advanced organic chemistry courses, Brown University, Providence (US)
1998-1999	Supervision of organic chemistry laboratory sections, Brown University, Providence (US)

Member of Professional Associations

2017-present	Austrian Society of Nuclear Medicine and Molecular Imaging
2017-present	Austrian Society of Chemistry
2011-present	Society of Nuclear Medicine and Molecular Imaging
2010-present	European Society of Molecular Imaging
2008-present	European Association of Nuclear Medicine and Molecular Imaging
2007-present	DE/AT/CH Working Group Radiopharmacy/Radiopharmaceutical Chemistry
2006-2015	Swiss Society of Radiopharmacy/Radiopharmaceutical Chemistry
2005-present	Society of Radiopharmaceutical Sciences
1999-present	American Chemical Society, Division of Organic Chemistry
1999-2014	Sigma Xi the Scientific Research Society, Elected Member
1998-present	Swiss Chemical Society

Activities in Organisations

2018-present	Editorial Board Member of Nuclear Medicine and Biology, Journal of the Society of Radiopharmaceutical Sciences, Elsevier
2018-present	Vice-Chair and Founding Board Member of the European Society of Radiopharmacy and Radiopharmaceuticals
2012-present	Member of the Radiopharmacy Committee (Scientific Advisor), *European Association of Nuclear Medicine* (EANM): Publishing guidelines and position papers on topics of current interest for the community
2013-present	Member of the Scientific Program Committee, *EANM*: Organisation of scientific and continuous medical education (CME) sessions and pre-symposia for EANM meetings
2012-2014	Swiss National Radiopharmacy Delegate, *EANM*: Evaluation and feedback to various publications of EANM committees
2011-2016	Member of the Swiss Examination Board of Module III "Radiopharmacy for MDs", *Swiss Society of Radiopharmacy/Radiopharmaceutical Chemistry*
2009-2015	Editorial Board Member of the *Open Catalysis Journal*

Reviewer Activities

Project Reviewer

- Swiss National Science Foundation (CH)
- Swiss Cancer League (CH)
- French National Research Agency (FR)
- The Frontier Research in Chemistry Foundation (FR)
- Swiss-South African Joint Research Programme (CH)
- Czech Science Foundation (CZ)
- German Research Foundation (DFG, DE)

Congress Abstract Reviewer / Chairman of Scientific Sessions

Regularly for the European Association of Nuclear Medicine, Society of Nuclear Medicine, Society of Radiopharmaceutical Sciences, European Society of Radiopharmacy and Radiopharmaceuticals, European Molecular Imaging Meeting, German/Austrian/Swiss Working Group of Radiopharmacy and Radiopharmaceutical Chemistry, Swiss Association of Radiochemistry and Radiopharmacy, Austrian Association of Nuclear Medicine and Radiopharmacy

Ad hoc Reviewer of Manuscripts *(in arbitrary order)*

- Chemical Reviews
- Angewandte Chemie International Edition
- European Journal of Nuclear Medicine and Molecular Imaging
- Journal of Medicinal Chemistry
- Chemical Communications
- Bioconjugate Chemistry
- Theranostics
- Organic Letters
- Dalton Transactions
- Scientific Reports
- Journal of Inorganic Biochemistry
- Chemistry - An Asian Journal
- Journal of Bioinorganic Chemistry
- International Journal of Molecular Sciences
- Applied Radiation and Isotopes
- Nuclear Medicine and Biology
- Pharmaceuticals
- European Journal of Medicinal Chemistry
- Chemistry - A European Journal
- Cancer Biotherapy and Radiopharmaceuticals
- Journal of Nuclear Medicine
- ChemMedChem
- Bioorganic and Medicinal Chemistry
- Journal of Organic Chemistry
- Molecular Pharmaceutics
- Tetrahedron Letters
- Journal of Inorganic Chemistry
- Contrast Media & Molecular Imaging
- Nucleotides & Nucleic Acids
- Nucleosides
- Synlett
- Molecules
- Journal of Amino Acids
- Current Radiopharmaceuticals

Collaborations

Academia

- University of Basel, CH
- ETH Zürich, CH
- University of Zürich, CH
- University of Bern, CH
- University of Bath, UK
- Stony Brook University, US
- University of Ionnina, GR
- University Medical Center, Amsterdam, NL
- University of Uppsala, SE
- NCSR Demokritos, Athens, GR
- Helmholtz Center Dresden-Rossendorf, DE
- Medical University of Innsbruck, AT
- Chimie ParisTech, FR
- University of Vienna, AT
- Technical University of Vienna, AT

Funding

2016-2023	Co-Founder of the Ludwig Boltzmann Institute Applied Diagnostics (with Profs M. Mitterhauser, G. Egger, M. Zeitlinger, J. Simon) Medical University of Vienna, AT
2015-2019	Principle Investigator, Swiss National Science Foundation
2015-2019	Principle Investigator (with Co-Investigator Prof. Gilles Gasser, University of Zurich, Switzerland), Swiss National Science Foundation
2014-2016	Principal Investigator, Cancer League Basel
2014-2015	Co-Applicant (PI: Prof. M. Gotthardt, Radboud University, The Netherlands), European FP7 Project “betaCure”
2013-2015	Principal Investigator, Novartis-University of Basel Excellence Scholarship for Life Sciences
2013-2015	Principal Investigator, Swiss National Science Foundation
2012-2013	Principal Investigator, Cancer League Basel
2012-2014	Co-Investigator (Principle Investigator Dr. M. Walter, University of Bern, Switzerland), Berner Krebsliga
2011-2014	Principal Investigator, T. & L. La Roche Foundation
2011-2013	Principal Investigator, Swiss National Science Foundation
2010-2012	Principal Investigator, Nora van Meeuwen Stiftung
2009-2015	Principal Investigator, Internal Funding for Radioprotection Projects, University of Basel Hospital
2009-2015	Various Industry Collaborations and Consultancy, University of Basel Hospital

Publications and Patents

A) Peer-Reviewed Publications

1. "An Overview on PET-Radiochemistry: Part 2 - Radiometals" M. Brandt, J. Cardinale, M. Aulsebrook, G. Gasser, T. L. Mindt *Journal of Nuclear Medicine* **2018**, *submitted*.

2. "A Solid Phase-Assisted Approach for the Facile Synthesis of a Highly Water Soluble Octadentate Zirconium-89 Chelator for Radiopharmaceutical Development" M. Briand, M. Aulsebrook, T. L. Mindt, G. Gasser, *Dalton Transactions* **2017**, *46,* 16387-16389 (*shared corresponding authorship G. G. and T. L. M.*). DOI: 10.1039/C7DT03639F.

3. "Consensus Nomenclature Rules for Radiopharmaceutical Chemistry - Setting the Record Straight" M. Adam, G. Antoni, H. H. Coenen, C. S. Cutler, Y. Fujibayashi, A. D. Gee, J. M. Jeong, R. H. Mach, T. L. Mindt, V. W. Pike, A. Windhorst *Nuclear Medicine and Biology* **2017**, *55,* v-xi. DOI: 10.1016/j.nucmedbio.2017.09.004.

4. "Amide-to-Triazole Switch vs. In Vivo NEP-Inhibition Approaches to Promote Radiopeptide Targeting of GRPR-Positive Tumors" T. Maina, A. Kaloudi, I. E. Valverde, T. L. Mindt, B. A. Nock *Nuclear Medicine and Biology* **2017**, *52,* 57-62 (*shared corresponding authorship B. A. N. and T. L. M.*). DOI: 10.1016/j.nucmedbio.2017.06.001

5. "Guidance on Validation and Qualification of Processes and Operations Involving Radiopharmaceuticals" S. Todde, P. Kolenc Peitl, P. H. Elsinga, J. Koziorowski, V. Ferrari, M. Ocak, O. Hjelstuen, M. Patt, T. L. Mindt, M. Behe *European Journal of Nuclear Medicine and Molecular imaging - Radiopharmacy and Chemistry* **2017**, *2*, 8. DOI: 10.1186/s41181-017-0025-9

6. "Methoxinine - An Alternative Stable Amino Acid Substitute for Oxidation-Sensitive Methionine in Radiolabeled Peptide Conjugates" N. M. Grob, M. Behe, E. von Guggenberg, R. Schibli, T. L. Mindt *Journal of Peptide Science* **2017**, 23, 38-44. DOI: 10.1002/psc.2948

7. "Glycated ^{99m}Tc-Tricarbonyl Labelled Peptide Conjugates for Tumour Targeting by Click-to-Chelate" K. Römhild, C. A. Fischer, T. L. Mindt *ChemMedChem* **2017**, *12*, 66-74. DOI: 10.1002/cmdc.201600485

8. "Comparison of the Octadentate Bifunctional Chelator DFO*-pPhe-NCS and the Clinically Used Hexadentate Bifunctional Chelator DFO-pPhe-NCS for ^{89}Zr-Immuno-PET" D. J. Vugts, C. Klaver, C. Sewing, A. J. Poot, K. Adamzek, S. Huegli, C. Mari, I. E. Valverde, G. Gasser, T. L. Mindt, G.A.M.S. van Dongen *European Journal of Nuclear Medicine* and *Molecular Imaging* **2017**, *44,* 286-295 (*shared corresponding authorship D. J. V., G. G., and T. L. M.*). DOI: 10.1007/s00259-016-3499-x

9. "Radiolabeled Analogs of Neurotensin (8-13) Containing Multiple 1,2,3-Triazoles as Stable Amid Bond Mimics in the Backbone" A. Mascarin, I. E. Valverde, T. L. Mindt *Medicinal Chemical Communications* **2016**, *7*, 1640-1646. DOI: 10.1039/c6md00208k

10. "Novel Chemoselective ^{18}F-Radiolabeling of Thiol-Containing Biomolecules Under Mild Aqueous Conditions" A. Chiotellis, F. Sladojevich, L. Mu, A. Müller Herde, I. E. Valverde, V. Tolmachev, R. Schibli, S. M. Ametamey, T. L. Mindt *Chemical Communications* **2016**, *52,* 6083-6086 (*highlighted in the section Swiss Science Concentrates of Chimia, the journal of the Swiss Chemical Society (Chimia* **2016***, 70,* 455*)*). DOI: 10.1039/c6cc01982j

11. "Towards the Optimization of Bombesin-Based Radiotracers for Tumor Targeting" I. E. Valverde. S. Vomstein, T. L. Mindt *Journal of Medicinal Chemistry* **2016**, *59*, 3867-3877. DOI: 10.1021/acs.jmedchem.6b00025

12. "Structure-Activity Relationship Studies of Amino Acid Substitutions in Radiolabeled Neurotensin Conjugates" A. Mascarin, I. E. Valverde, T. L. Mindt *ChemMedChem* **2016**, *11*, 102 –107 (*highlighted as cover page illustration*). DOI: 10.1002/cmdc.201500468

13. "Position Paper on Requirements for Toxicological Studies in the Specific Case of Radiopharmaceuticals" J. Koziorowski, M. Behe, C. Decristoforo, J. Ballinger, P. Elsinga, V. Ferrari, P. Kolenc Peitl, S. Todde, T. L. Mindt *European Journal of Nuclear Medicine and Molecular Imaging – Radiopharmacy and Chemistry* **2016**, *1*, 1-6. DOI: 10.1186/s41181-016-0004-6

14. "1,2,3-Triazole Stabilized Neurotensin-Based Radiopeptidomimetics for Improved Tumor Targeting" A. Mascarin, I. E. Valverde, S. Vomstein, T. L. Mindt *Bioconjugate Chemistry* **2015**; *26*, 2143–2152. DOI: 10.1021/acs.bioconjchem.5b00444

15. "Probing the Backbone Function of a Bombesin-Based Radiotracer by an Amide-to-Triazole Substitution Strategy" I. E. Valverde, S. Vomstein, T. L. Mindt *Journal of Medicinal Chemistry* **2015**, *58*, 7475–7484. DOI: 10.1021/acs.jmedchem.5b00994

16. "Development of Gallium-68 and Zirconium-89 Labelled Exendin-4 for the Imaging of Insulinomas by PET" A. Bauman, I. E. Valverde, C. A. Fischer, S. Vomstein, T. L. Mindt *Journal of Nuclear Medicine and Molecular Imaging* **2015**, *56,* 1569-1574. DOI: 10.2967/jnumed.115.159186

17. "Regioselective 1,2-Addition of Organometallic Reagents to Unprotected Juglones" K. A. Parker, T. L. Mindt *Tetrahedron Letters* **2015**, *56*, 3500-3502. DOI: 10.1016/j.tetlet.2014.12.108

18. "An Octadentate Bifunctional Chelating Agent for the Development of Stable Zirconium-89 Based Molecular Imaging Probes" M. Patra, A. Bauman, C. Mari, C. A. Fischer, O. Blacque, D. Häussinger, G. Gasser, T. L. Mindt *Chemical Communications* **2014**, *50,* 11523-11525 (*highlighted in the section Swiss Science Concentrates of Chimia, the journal of the Swiss Chemical Society (Chimia* **2014***, 68,* 820*)*). DOI: 10.1039/c4cc05558f

19. "A Bombesin-Shepherdin Radioconjugate Designed for Combined Extra- and Intracellular Targeting" C. A. Fischer, S. Vomstein, T. L. Mindt *Pharmaceuticals* **2014**, *7*, 662-675. DOI: 10.3390/ph7060662

20. "Guidance on Current Good Radiopharmacy Practice for the Small-Scale Preparation Radiopharmaceuticals Using Automated Modules: a European Perspective" J. Aerts, J. R. Ballinger, M. Behe, C. Decristoforo, P. H. Elsinga, A. Faivre-Chauvet, T. L. Mindt, P. Kolenc

Peitl, S. C. Todde, J. Koziorowski. *Journal of Labeled Compounds and Radiopharmaceuticals* **2014**, *57*, 615-620. DOI: 10.1002/jlcr.3227

21. "EANM Guideline for the Preparation of an Investigational Medicinal Product Dossier (IMPD)" S. Todde, A. D. Windhorst, M. Behe, G. Bormans, C. Decristoforo, A. Faivre-Chauvet, V. Ferrari, A, D. Gee, B. Gulyas, C. Halldin, P. Kolenc-Peitl, J. Koziorowski, T. L. Mindt, M. Sollini, J. Vercouillie, J. R. Ballinger, P. H. Elsinga *European Journal of Nuclear Medicine and Molecular Imaging* **2014**, *41,* 2175-2185. DOI: 10.1007/s00259-014-2866-8
22. "Expression of Different Neurokinin Type 1-Receptor Isoforms in Glioblastoma Multiforme – Implications for Targeted Therapy" D. Cordier, A. Gerber, C. Kluba, A. Bauman, G. Hutter, T. L. Mindt, L. Mariani *Cancer Biotherapy & Radiopharmaceuticals* **2014***, 29,* 221-226 (*shared corresponding authorship T. L. M. and D. C.*). DOI: 10.1089/cbr.2013.1588
23. "Radiolabeled Antagonistic Bombesin Peptidomimetics for Tumor Targeting" I. E. Valverde, E. Huxol, T. L. Mindt *Journal of Labeled Compounds and Radiopharmaceuticals* **2014**, *57*, 275–278. DOI: doi.org/10.1002/jlcr.3162
24. "1,2,3-Triazoles as Amide Bond Mimics: Triazole Scan Yields Protease-Resistant Peptidomimetics for Tumor Targeting" I. E. Valverde, A. Bauman, C. A. Kluba, S. Vomstein, M. Walter, T. L. Mindt *Angewandte Chemie International Edition*, **2013**, *52,* 8957-8960 (*highlighted in the section Swiss Science Concentrates of Chimia, the journal of the Swiss Chemical Society (Chimia **2013**, 67*(10), 738*), and in q&more (**2013**, 2, 56); highlighted on-line at bionity.com, schattenblick.de, news.doccheck.com, and ingentaconnect.com*). DOI: 10.1002/anie.201303108
25. "1,2,3-Triazole als Mimetika der Amid-Bindung: Ein Triazol-Scan führt zu Protease-resistenten Peptidmimetika für das Tumor-Targeting" I. E. Valverde, A. Bauman, C. A. Kluba, S. Vomstein, M. Walter, T. L. Mindt *Angewandte Chemie* **2013**, *125*, 9126-9129 (in German). DOI: 10.1002/ange.201303108
26. "1,2,3-Triazoles as Amide Bond Surrogates in Peptidomimetics" I. E. Valverde, T. L. Mindt *Chimia* **2013**, *4*, 262-266. DOI: 10.2533/chimia.2013.262
27. "Click-to-Chelate: Development of Technetium- and Rhenium-Tricarbonyl Labeled Radiopharmaceuticals" C. A. Kluba, T. L. Mindt *Molecules* **2013**, *18*, 3206-3226. DOI: 10.3390/molecules18033206
28. "Effect of a Spacer Moiety on Radiometal Labelled Neurotensin Derivatives" A. Mascarin, I. E. Valverde, T. L. Mindt *Radiochimica Acta* **2013**, *11,* 733-738. DOI: 10.1524/ract.2013.2090
29. "Dual-Targeting Conjugates Designed to Improve the Efficacy of Radiolabeled Peptides" C. A. Kluba, A. Bauman, I. E. Valverde, S. Vomstein, T. L. Mindt *Organic & Biomolecular Chemistry* **2012**, *10*, 7594-7602. DOI: 10.1039/c2ob26127h
30. "Synthesis, Gallium-68 Labeling and Biological Evaluation of DOTA-, NODAGA- and Desferrioxamine-modified Nanoparticles" Q.K.T. Ng, T. Segura, A. Ben-Shlomo, T. Krause, T. L. Mindt, M. A. Walter *Journal of Nano Research* **2012**, *20*, 21-31. DOI: 10.4028/www.scientific.net/JNanoR.20.21
31. "Fluorescent Gallium and Indium Bis(thiosemicarbazonates) and Their Radiolabelled Analogues: Design, Synthesis and Cellular Confocal Fluorescence Imaging Investigations" R. L. Arrowsmith, P. A. Waghorn, A. Bauman, S. K. Brayshaw, Z. Hu, M. W. Jones, G. Kociok-Kohn,

T. L. Mindt, R. M. Tyrrell, S. W. Botchway, J. R. Dilworth, S. I. Pascu *Dalton Transactions* **2011**, *40*, 6238-6252. DOI: 10.1039/c1dt10126a

32. "Convergent Synthesis of *2H*-Chromenes - a Formal [3+3] Cycloaddition by a One-pot, Three Step Cascade" K. A. Parker, T. L. Mindt *Tetrahedron* **2011**, *67*, 9779-9786. DOI: 10.1016/j.tet.2011.09.068

33. "Effect of Amino Acid Infusion on Potassium Serum Levels in Neuroendocrine Tumor Patients Treated with Peptide-Receptor Radionuclide Therapy" G. Giovacchini, G. Nicolas, T. L. Mindt, F. Forrer *European Journal of Nuclear Medicine and Molecular Imaging* **2011**, *38*, 1675-1682. DOI: 10.1007/s00259-011-1826-9

34. „Imaging of Activated Macrophages in Experimental Osteoarthritis Using Folate Targeted Animal SPECT/CT" T. M. Piscaer, C. Müller, T. L. Mindt, E. Lubberts, J. A. N. Verhaar, E. P. Krenning, R. Schibli, M. De Jong, H. Weinans *Arthritis & Rheumatism* **2011**, 63, 1898–1907. DOI: 10.1002/art.30363

35. "Molecular Assembly of Multifunctional Tc-99m Radiopharmaceuticals using "Clickable" Amino Acid Derivatives" T. L. Mindt H. Struthers, B. Spingler, L. Brans, D. Tourwe, E. Garcia-Garayoa, R. Schibli *ChemMedChem* **2010**, *5,* 2026-2038. (*highlighted as cover page illustration; among the most accessed articles between 09/2010-08/2011*). DOI: 10.1002/cmdc.201000342

36. "Concepts for the design of metal chelating systems using the copper catalyzed azide-alkyne cycloaddition" H. Struthers, T. L. Mindt, R. Schibli *Dalton Transactions* **2010**, *39,* 675. (*highlighted as cover page illustration*). DOI: 10.1039/b912608b

37. "A Click Chemistry Approach to the Efficient Synthesis of Multiple Imaging Probes Derived from a Single Precursor" T. L. Mindt, C. Müller, F. Stuker, J.-F. Salazar, A. Hohn, T. Mueggler, M. Rudin, R. Schibli *Bioconjugate Chemistry* **2009**, *20*, 1940-1949. DOI: 10.1021/bc900276b

38. "A Click Approach to Structurally Diverse Conjugates Containing a Central Di-1,2,3-Triazole Metal Chelate" T. L. Mindt, C. Schweinsberg, L. Brans, A. Hagenbach, U. Abram, D. Tourwé, E. Garcia-Garayoa, R. Schibli *ChemMedChem* **2009**, *4*, 529. (*among the top 10 most frequently cited articles of ChemMedChem 2009*). DOI: 10.1002/cmdc.200800418

39. "Evaluation of a Novel Radiofolate in Tumor-Bearing Mice - Promising Prospects for Folate-Based Radionuclide Therapy" C. Müller, T. L. Mindt, M. de Jong, R. Schibli *European Journal of Nuclear Medicine and Molecular Imaging* **2009**, *36,* 938. DOI: 10.1007/s00259-008-1058-9

40. "Click Chemistry Radiosynthesis and Preclinical Evaluation of a New ^{18}F-Labelled Folic Acid Derivative" T. L. Ross, M. Honer, P. Y. H. Lam, T. L. Mindt, V. Groehn, R. Schibli, P. A. Schubiger, S. M. Ametamey *Bioconjugate Chemistry* **2008**, *19*, 2462. DOI: 10.1021/bc800356r

41. "Click-to-Chelate: In Vitro and In Vivo Comparison of a ^{99m}Tc(CO)$_3$-Labeled N(⍰)-Histidine Folate Derivative with Its Isostructural, Clicked 1,2,3-Triazole Analogue" T. L. Mindt, C. Müller, M. Melis, M. de Jong, R. Schibli *Bioconjugate Chemistry* **2008**, *19*, 1689. (*highlighted as cover page illustration; highlighted on-line in Vertical News Chemicals&Chemistry*). DOI: 10.1021/bc800183r

42. "Click-to-Chelate": Design and Incorporation of Triazole Containing Metal Chelating Systems into Biomolecules of Diagnostic and Therapeutic Interest"; H. Struthers, B. Spingler, T. L. Mindt, R. Schibli *Chemistry – A European Journal* **2008**, *14*, 6173. DOI: 10.1002/chem.200702024

43. “Modification of Different IgG1 Antibodies via Glutamine and Lysine using Bacterial and Human Tissue Transglutaminase” T. L. Mindt, V. Jungi, S. Wyss, A. Friedli, G. Pla, I. Novak-Hofer, J. Grünberg, R. Schibli *Bioconjugate Chemistry* **2008**, *19*, 271. DOI: 10.1021/bc700306n

44. "Cu(I)-Catalyzed Intramolecular Cyclization of Alkynoic Acids in Aqueous Media - a Click Side Reaction"; T. L. Mindt, R. Schibli *The Journal of Organic Chemistry* **2007**, *72*, 10247. DOI: 10.1021/jo702030e

45. “Strategies for the Development of Novel Tumor Targeting Technetium and Rhenium Radiopharmaceuticals” T. L. Mindt, H. Struthers, E. Garcia-Garayoa, D. Desbouis, R. Schibli *Chimia* **2007**, *61,* 725. DOI: 10.2533/chimia.2007.725

46. "Click to Chelate: Synthesis and Installation of Metal Chelates into Biomolecules in a Single Step” T. L. Mindt, H. Struthers, L. Brans, T. Anguelov, C. Schweinsberg, V. Maes, D. Tourwé, and R. Schibli *Journal of the American Chemical Society* **2006**, *128*, 15096. (*highlighted on-line in Noteworthy Chemistry of the American Chemical Society; highlighted on-line by the Faculty 1000 Biology Reports*). DOI: 10.1021/ja066779f

47. “TESOTf-Induced Rearrangement of Quinols. Efficient Construction of the Fully functionalized Carbon Skeleton of the Griseusins by a Divergent-Reconvergent Approach”; K. A. Parker, T. L. Mindt, Y.-H. Koh *Organic Letters* **2006**, *8*, 1759. DOI: 10.1021/ol060206q

48. “Heterocycle Annulation of Enolizable Vinyl Quinone Imides. Dihydroquinolines and Quinolines from Thermal 6π-Electrocyclizations and Indoles from Photochemical Cyclizations”; K. A. Parker, T. L. Mindt *Organic Letters* **2002**, 4 (24), 4265. DOI: 10.1021/ol026849x

49. “Electrocyclic Ring Closure of the Enols of Vinyl Quinones. A 2H-Chromene Synthesis”; K. A. Parker, T. L. Mindt *Organic Letters* **2001**, 3 (24), 3875. DOI: 10.1021/ol0167199

50. “Synthesis and Evaluation of Enantiomeric Purity of Protected α-Amino and Peptide Aldehydes”; T. Mindt, U. Michel, F. Dick *Helvetica Chimica Acta* **1999**, *82*, 1960. DOI: 10.1002/(SICI)1522-2675(19991110)82:11<1960::AID-HLCA1960>3.0.CO;2-2

51. “Development of Novel Bioerodible Poly(hydroxyalkylene carbonates)s: A Versatile Class of Polymers for Medical and Pharmaceutical Applications”; M. Acemoglu, S. Bantle, T. Mindt *Macromolecules* **1995**, *28*, 3030. DOI: 10.1021/ma00113a003

52. “α-Sulfinyl Substituted Radicals; II. Stereoselective Inter- and Intramolecular Addition Reactions of Acyclic α-Sulfinyl Radicals”; A. De Mesmaeker, A. Waldner, P. Hoffmann, T. Mindt *Synlett* **1993**, *11*, 871. DOI: 10.1055/s-1993-22638

53. “α-Sulfinyl Substituted Radicals; I. Stereoselective Radical Addition Reactions of Cyclic α-Sulfinyl Radicals”; A. Waldner, A. De Mesmaeker, P. Hoffmann, T. Mindt, T. Winkler *Synlett* **1991**, *2*, 101. DOI: 10.1055/s-1991-20642

54. “Stereoselective Carbon-Carbon Bond Formation in Carbohydrates by Radical Cyclization Reactions”; A. De Mesmaeker, A. Waldner, P. Hoffmann, T. Mindt, P. Hug, T. Winkler *Synlett* **1990**, *11*, 687. DOI: 10.1055/s-1990-21212

B) Patents

1. "Minigastrin Derivatives, in Particular for Use in CCK2 Receptor Positive Tumour Diagnosis and/or Treatment" T. L. Mindt, N. M. Grob, M. Behe, R. Schibli **2017**EP17192428
2. "Multidentate Chelating Agents for Radionuclide Complexation in Diagnostics and Therapy" T. L. Mindt, G. Gasser, A. Bauman, M. Patras **2014**EP14160792
3. "Bombesin Receptor Targeting Peptide Incorporating a 1,2,3-Triazole Group in the Backbone for Preparing In Vivo Diagnostic and Therapeutic Agents" T. L. Mindt, I. Valverde WO**2012**/156511
4. "Novel ^{18}F-labelled Folates as PET Tracers" T. Ross; T. L. Mindt; V. Groehn; R. Moser; S. Ametamey; A. P. Schubiger WO**2008**125615.
5. "Folic Acid Functionalized with Histidine- or Histidine-like Metal Chelators for SPECT Applications" T. Mindt, C. Müller, R. Schibli, V. Groehn WO**2008**125618.
6. "Preparation of Triazole Containing Metal Chelating Agents as well as Their Incorporation into Biomolecules and Their Tricarbonyl Complexes with Technetium and Rhenium" T. L. Mindt, R. Schibli **2006**P12660EP.

C) Book Chapters

1. *"*Bioconjugation Techniques*"* J. Cardinale, C. Giammei, N. Jouini, T. L. Mindt *in Radiopharmaceutical Chemistry,* Editors: J. Lewis, B. Zeglis, A. Windhorst, Springer **2018**, *submitted.*
2. "Application of Click Chemistry for the Design of Ligand Systems and Functionalization of Biomolecules Suitable for Radiolabelling with the Technetium and Rhenium Tricarbonyl Core" T. Mindt, H. Struthers, R. *In Technetium-99m Radiopharmaceuticals: Status and Trends,* **2010**, International Atomic Energy Agency, 41-55*.*

D) Published Abstracts

>70 published abstracts based on presentations or invited lectures at national and international meetings and congresses (see "Appendix II").

E) Presentations and Invited Lectures

>150 presentations and invited lectures at national and international meetings and conferences.