

Curriculum Vitae Kimberly M. Bonger

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Personal details

Full Name: Dr. Kimberly Michelle Bonger
Date and place of birth: 02 November 1980 Toronto (Canada)
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Bio sketch

Kim Bonger obtained her MSc degree in Organic Chemistry from the Free University in Amsterdam in 2002. In 2008 she received her PhD in Bioorganic chemistry from Leiden University working under the supervision of Prof. Dr. Gijs van der Marel and Prof. Dr. Hermen Overkleeft on the design and synthesis of dimeric ligands for G-protein coupled receptors involved in human reproduction. Starting in 2009, Kim switched fields to molecular biology and cell biology where she spend four years as a postdoc with Prof. Dr. Thomas Wandless at Stanford University working on molecular tools to control protein stability. In 2013 she returned to the Netherlands as an assistant professor in Chemical Biology at the Radboud University in Nijmegen where she was promoted to associate professor in 2021. Her research focuses on the development of novel bioorthogonal reactions and targeted drug delivery strategies to improve therapeutic applications. In addition, she develops methods to discover novel drug targets and to understand the cellular mechanisms involved in (auto)immune diseases.

Work & Education

Current position

Function: Associate Professor (2021-current)
Assistant Professor (2013-2021)
University: Radboud University, Nijmegen, The Netherlands
Date: January 2013 – current
Main subject: Chemical Biology

Postdoc

University: Stanford University, Stanford, USA
Date: April 2009 – December 2012
Main subject: Molecular Biology, Cell Biology
Supervisor: Prof. Dr. T.J. Wandless

Doctorate

University: Leiden University, Leiden, The Netherlands
Date: January 2004 – December 2008
Main subject: (Bio)Organic Chemistry and Medicinal Chemistry
Supervisors: Prof. Dr. H.S. Overkleeft and Prof. Dr. G.A. van der Marel
Dr. C. M. Timmers (NV Organon, Oss)
Title of thesis: Dimeric ligands for GPCRs involved in reproduction: Synthesis and biological evaluation

International research experience

University: University-College Stavanger, Norway
Date: September 2001 – November 2002
Main subject: Organic chemistry
Supervisor: Dr. E. Bakstad

Master's

University: Free University, Amsterdam, The Netherlands
Date: September 2000 – July 2002
Main subject: Organic chemistry
Supervisor: Prof. Dr. R.V.A. Orru

Bachelor's

College of Higher Education: Hogeschool Leiden, Leiden, The Netherlands
Date: September 1997 – July 2001
Main subject: Organic Chemistry

Supervision of students

Postdocs:

September 2021 – current: PhD. Joep Joosten
March 2020 – February 2022: PhD. Jordi Agramunt Pi
March 2019 – February 2020: PhD. Melek Parlak

Graduate Students:

September 2021 – current: MSc. Enebie Ramos Cáceres; Co-supervised with Prof. E. Reits (AMC)
March 2021 – current: MSc. Daan Hamstra
October 2019 – current: MSc. Heleen de Jong; Co-supervised with Dr. D. Lowik (RU)
October 2019 – current: MSc. Mike Smeenk
September 2019 – current: MSc. Kevin Venrooij
March 2019 – current: MSc. Margot van Weijsten
January 2019 – current: MSc. Bob Ignacio
September 2017 – current: MSc. Yvonne Bartels; Co-supervised with Dr. P. van Lent (RUMC)

Successfully graduated PhD students:

December 2014 – April 2019: MSc. Lianne Lelieveldt
August 2014 – July 2018: MSc. Fleur Kleinpenning
May 2013 – March 2018: MSc. Selma Eising

The graduate students in my lab have been awarded several poster prizes for their work over the past years: SE: Graduate School of chemical biology 2015 in Konstanz, DE; EK: Chains2015 conference, Veldhoven, NL (from 300+ posters); sIMMposium 2015, Nijmegen, NL; EMBL2016 chemical biology meeting; Heidelberg, DE (from 200+); LL: Institute for Chemical Immunology 2016, Amsterdam, NL

Master and Bachelor students:

January 2013 – current: Supervision of 44 master internships of students graduating in Molecular Chemistry, Chemistry for Life, Science, Medical Biology, Molecular Mechanisms of Disease and university of applied sciences.
January 2013 – current: Supervision of 28 bachelor internships of students graduating in Molecular Chemistry, Chemistry for Life, Science or Medical Biology.

Teaching experience

Course development and lecturing (since 2013):

- 2021-current: Lecturer Medicinal Chemistry (NWI-MOL423, MSc)
- 2016-2018: Lecturer Cell growth and differentiation (MM3CF, MSc)
- 2013-current: Lecturer Pharmacology (NWI-MOL053, BSc)
- 2013-current: Lecturer Chemical Biology (NWI-MOL401, MSc)
- 2013-2020: lecturer and development of a Chemical Biology Practical Course (NWI-MOL049, BSc)
- 2013-2017: lecturer of Protein Modification (NWI-MOL411, MSc)
- 2013-2016: Lecturer in Molecular Mechanisms of Novel Therapeutics (BM049B, MSc)

Institutional responsibilities

2021-current:	Member of colloquium committee Molecular Sciences at the Radboud University
2020-current:	Coordinator Master specialization Medicinal Chemistry at Radboud University
2019-2020:	Coordinator Master specialization Chemistry of Life at Radboud University
2018-2020:	Member of the education program committee Molecular Life Science at Radboud University
2015-2017:	Member of the mentoring board of the Radboud Honours Academy at Radboud University
2015-2017:	Member of the representative council of the Science Faculty Board at Radboud University
2014-2017:	Member of the program committee of the Nanomedicine Radboud Research Rounds (organized 3x per year)
2014-2017:	Member of the orientation committee for Molecular Science at the Radboud University
2014 – current:	Active participation in orientation days for high school students such as open days, master classes, career days, girl days and ‘proefstudereren’
2013-2016:	Member of the recruitment and communication committee for Molecular Science at Radboud University
2013 – current:	Member of 32 PhD thesis committees: Mark de Geus (Leiden University, 2021), Yvette Luykx (Utrecht University, 2021), Jorn Naimak (university of Stavanger, NO, 2021), Anouk van der Gracht (Leiden University, 2020) Dion Voerman (RadboudUMC, 2020), Cynthia de Bont (Radboud University 2020), Elmer Maurits (Leiden University, 2020), Abbas El Tamimi (Radboud University, 2020), Jordi Paramount Pi (University of Barcelona, 2019), Sanne van Lith (RadboudUMC, 2019), Velten Horn (Leiden University, 2019), Sander Engelsma (Leiden University, 2019), Mathijs van Lint (Vrije Universiteit Amsterdam, 2019), Thorben Heise (Radboud University, 2018), Rens Mensink (Radboud University, 2018), Marjolein Soethout (Leiden University, 2018), Lise Schoonen (Radboud University, 2018), Tjerk Sminia (Wageningen University, 2017), Bo-Tao Xin (Leiden University, 2017), Marc Baggelaar (Leiden University, 2017), Anchel Gonzalez Barriga (Radboud UMC, 2017), Stijn Aper (Technical University Eindhoven, 2016), Arne Smits (RadboudUMC, 2016), Anika Jonker (Radboud University, 2016), Rike Wallbrecher (RadboudUMC, 2015), Sonia Mellouli (Radboud University, 2015), Rinske Temming (Radboud University, 2014), Sascha Hoogendoorn (Leiden University, 2014), Angelique Wammes (Radboud University, 2014), Jorgen Steven Willemsen (Radboud University, 2014), Marjoke Debets (Radboud University, 2013), Morten Vorre Hansen (Radboud University, 2013).

Invited communications

O: oral presentation; P: poster presentation

- August 2021: (O): Virtual IUPAC symposium, Montreal, Canada
- June 2021: (O): Virtual RSC Bioorthogonal and Bioresponsive symposium, Edinburgh, UK
- March 2021: (O): Leolezing, Radboud University, Nijmegen, The Netherlands
- February 2021: (O): MedChem symposium, University of Wuerzburg, Germany
- February 2020: (O): Sigma Lecture, Radboud University, Nijmegen, The Netherlands
- January 2020: (O): Research Centre for Natural Sciences, Budapest, Hungary
- September 2019 (O): Groningen University, Groningen, The Netherlands
- September 2019 (O): Vrije University, Amsterdam, The Netherlands
- May 2019 (O): École polytechnique fédérale de Lausanne, Switzerland
- May 2019 (O): University of Geneva, Switzerland
- May 2019 (O): IMM colloquium, Radboud University, Nijmegen, The Netherlands
- April 2019 (O): Cambridge University, UK
- March 2019 (O): ICI conference, Amsterdam, The Netherlands
- December 2018 (O): CHAINS 2018, Veldhoven, The Netherlands
- October 2018 (O): IRB Barcelona, Barcelona, Spain
- August 2018 (O): EMBO Chemical Biology Symposium, Heidelberg, Germany
- February 2018 (O): Leiden University, Leiden, The Netherlands
- January 2018 (O): Cell biology RIMLS, Nijmegen, The Netherlands

- October 2017 (O): Symposium 'De chemische binding', Groningen University, Groningen, The Netherlands
- June 2017 (P): Gordon Research Conference Bioorganic Chemistry, Andover, USA
- June 2017 (O): Designer Biology Symposium, Vienna, Austria
- April 2017 (O): Utrecht University PhD retreat, Utrecht, The Netherlands
- April 2017 (O): APPB-BOC, COST meeting, Leiden, The Netherlands
- March 2017 (P): 253rd ACS National Meeting, San Francisco, USA.
- March 2016 (O): Lorentz Workshop optogenetics, Leiden, NL
- February 2016 (O): Utrecht University, Utrecht, The Netherlands
- June 2015 (O): NextGenChem, Leiden, The Netherlands
- March 2015 (O): ISAS, Dortmund, Germany
- December 2014 (O): NL-GB Chaperone Meeting, Amsterdam, The Netherlands
- November 2014 (O): NVBMB fall symposium, Groningen, The Netherlands
- October 2014 (O): NextGenChem, Eindhoven, The Netherlands
- November 2013 (P): New Frontiers symposium Nijmegen, Netherlands.
- October 2013 (O): Research Center "Cellular Surveillance and damage response, Annweiler, Germany.
- January 2013 (O): NCMLS focus session, Nijmegen, The Netherlands.
- December 2011 (O): Leiden University, Leiden, The Netherlands.
- June 2011 (P): 2011 HFSP meeting, Montreal, Canada.
- September 2010 (O): Chemical and Systems Biology Meeting, Asilomar, USA.
- September 2010 (O): EMBL chemical biology 2010 meeting, Heidelberg, Germany
- June 2010 (O): Leiden-Gent Chemistry Symposium Gent, Belgium
- January 2009 (O): Honourary lecture for NVFW (Dutch Society of Pharmaceutical Sciences) on behalf of best thesis prize, Lunteren, The Netherlands.
- August 2007 (O): International Symposium on Advances in Synthetic and Medicinal Chemistry (ASMC07), St Petersburg, Russia (subsidized by the Leiden university fund (LUF))
- October 2007 (O): National Medicinal Chemistry and FIGON Meeting, Lunteren, The Netherlands.
- July 2006 (O): 3rd International Conference on Multi-Component Reactions and Related Chemistry, Amsterdam, The Netherlands.
- January 2006 (O): NWO Combinatorial Chemistry Meeting, Utrecht, The Netherlands.
- October 2006 (P): National meeting on Design, Synthesis, Structure, Reactivity and Biomolecular Chemistry, Lunteren, The Netherlands.
- November 2005 (P): National Medicinal Chemistry and FIGON Meeting, Lunteren, The Netherlands.
- October 2004 (P): National meeting on Design, Synthesis, Structure, Reactivity and Biomolecular Chemistry, Lunteren, The Netherlands.

Organization of scientific meetings

- December 2022: Member of the Program Committee CHAINS 2022;
- December 2021: Member of the Program Committee CHAINS 2021;
- August 2021: Co-organizer of 48th IUPAC World Chemistry Congress, Montreal, Canada
- April 2016 - current: Co-organizer of the biannual international KNCV chemistry symposium in the Netherlands with ~ 170 participants
- April 2015 - current: Co-organizer of the biannual national KNCV chemistry symposium in the Netherlands With ~ 120 participants
- December 2016: member of study group committee for Chains2016 with ~ 1500 participants.
- May 2016: Co-organizer of the NextGenChem meeting in Nijmegen, the Netherlands with 50 participants.
- May 2015: Co-organizer of the Dutch peptide symposium in Nijmegen with 130 participants.
- April 2014: Co-organizer of the national SIMMposium meeting in Nijmegen the Netherlands with 100 participants

Prices, grants and awards

- 2021: Aspasia Grant, Dutch Science Organization (NWO) (120 K€)
- 2021: Institute for Chemical Immunology Grant (300 K€, Co-applicant with Prof. E. Reits)
- 2020: Reumafonds Grant (200 K€, co-applicant with Prof. R.E.M. Toes, LUMC)
- 2018: ERC Starting Grant (1.5 M€)
- 2018: ICI career track (1.2 M€)
- 2017: University Teaching Qualification Certificate (BKO)
- 2017: Radboud Womens Professor Network Prize
- 2016: Reumafonds Grant (200 K€, co-applicant with Dr. P. van Lent, RUMC)
- 2015: Radboud University Certificate for Academic Leadership
- 2014: Institute for Chemical Immunology Grant (600 K€, Co-applicant with Prof. R.E.M. Toes)
- 2014: Marie Curie Career Integration Grant (100 K€)
- 2011: Stanford Institute for Immunity, Transplantation and Infection Seed grant with Dr. R. Rakhit (25 K\$)
- 2010: Human Frontiers Science Program (HFSP) cross disciplinary research fellowship
- 2009: Dutch Science Organization (NWO) Rubicon research fellowship (declined in part)
- 2009: Dutch Society of Pharmaceutical Sciences (NVFW) Best thesis prize
- 2007: Best Communication award. National Medicinal Chemistry and FIGON Meeting, Lunteren, The Netherlands.
- 2007: First Oral Communication award. International Symposium on Advances in Synthetic and Medicinal Chemistry (ASMC07), St Petersburg, Russia.
- 2007: Travel Grant from Leiden University Fund

Memberships of Scientific Societies

2020-current:	Junior board member of the Institute of Chemical Immunology
2019-current:	Co-chair of the Royal Dutch Chemical Society (KNCV) Section Organic Chemistry
2018-current:	Board member of the Dutch Science Organization (NWO) workgroup Chemistry of Life
2015-2017	Member of the COST-CM1004 Research Network "Synthetic Probes for Chemical Proteomics and Elucidation of Biosynthetic Pathways"
2014-current:	Partner in the Institute for Chemical Immunology
2014-2019:	Board Member of the Royal Dutch Chemical Society (KNCV) Section Organic Chemistry
2013-2017:	Board Member of the Dutch Science Organization (NWO) studygroup Biomolecular Chemistry
2013-2019:	Member of the Radboud Nanomedicine Alliance
2013-current:	Member of Dutch Pharmacology Society
2013-current:	Member of the Dutch Society for Biochemistry and Molecular Biology (NVBMB)
2013-current:	Member of the Dutch Synthetic Organic Chemistry Society (KNCV-SOC)

Commissions of trust

- Member of the Editorial Advisory Board *ACS Chemical Biology*
- Member of the International Advisory Board *European Journal of Organic Chemistry*
- Reviewer of peer review journals including *ACS central science*, *ACS sensors*, *ACS chemical biology*, *Advanced Science*, *Angewandte Chemie*, *Bioconjugate Chemistry*, *ChemComm*, *ChemEurJ*, *Chemical Science*, *ChemBioChem*, *ChemPlusChem*, *Current Biology*, *Journal of the American Chemical Society*, *Journal of Organic Chemistry*, *Nature Communications*, *Organic & Biomolecular Chemistry*, *RSC Chemical Biology*
- Expert Evaluator, FWF Austrian Science Fund, 2021
- Expert Evaluator, Czech Science Foundation, 2018
- Expert Evaluator, Research Executive Agency of the European Commission, H2020 ERC_StG, ERC_CoG and ERC_AdG 2020
- Expert Evaluator, Research Executive Agency of the European Commission, H2020 FET OPEN RIA 2019
- Panel member, Netherlands Organization for Scientific Research, ECHO Fellowships 2018
- Panel member, Netherlands Organization for Scientific Research, VENI Fellowships 2019
- Panel member, Netherlands Organization for Scientific Research, Klein Grant 2020

Outreach to the general public

- Radboud Science Podcast: <https://www.ru.nl/fnwi/alumni/radboud-science-podcast/virtuele-map-podcastafleveringen/8-chemisch-bioloog-kim-bonger-medicijnen-afleveren-0/>
- KNCV eye-opener movie: <https://www.eye-openers.nl/nl/seethecast/kim-bonger/>
- Interview with VOX magazine: <https://www.voxweb.nl/nieuws/liefde-is-allebei-een-erc>
- Interview with Radboud ReCharge: <https://www.radboudrecharge.nl/nl/artikel/waarom-ons-immuunsysteem-ons-soms-aanvalt>
- Interview with Hart van Nijmegen: https://issuu.com/hartvannijmegen/docs/hvn_2020_04_def
- ReumaNL interview: <https://reumanederland.nl/nieuws/onderzoek-ontstekingsreuma/baanbrekend-onderzoek-alleen-foute-afweercellen-uitschakelen-bij-ra/>

Career break

June-August 2012: Child birth

July-October 2016: Child birth

Publications

* Corresponding author

Co-first authors

35. Bob J. Ignacio, Jelmer Dijkstra, Erik Slot, Natalia Mora Garcia, Margot van Weijsten, Erik Storkebaum, Michiel Vermeulen, **Kimberly M. Bonger*** THRONCAT: Efficient metabolic labelling of newly synthesized proteins using a bioorthogonal threonine analogue *BioRxiv* **2022**, submitted
34. Hendy Kristyanto, Miles D. Holborough-Kerkvliet, Lianne Lelieveldt, Yvonne Bartels, Roel Hammink, Karin A.J. van Schie, Rene E.M. Toes, **Kimberly M. Bonger***, H. Uli Scherer*, Multifunctional, multivalent PIC polymer scaffolds for targeting antigen-specific, autoreactive B cells *ACS Biomater. Sci. Eng.* **2022**, Accepted manuscript
33. Bob J. Ignacio, Thomas Bakkum, **Kimberly M. Bonger**, Nathaniel I. Martin, Sander I. van Kasteren, Metabolic labeling probes for interrogation of the host–pathogen interaction *Org. Biomol. Chem.* **2021**, 19, 2856-2870.
32. Camille M. Le Gall, Johan M.S. van der Schoot, Iván Ramos-Tomillero, Melek Parlak Khalily, Floris J. van Dalen, Zacharias Wijffjes, Liyan Smeding, Duco van Dalen, Anna Cammarata, **Kimberly M. Bonger**, Carl G. Figdor, Ferenc A. Scheeren, Martijn Verdoes. Dual site-specific chemoenzymatic antibody fragment conjugation using CRISPR-based hybridoma engineering. *Bioconj. Chem.* **2021**, 32, 301-310.
31. Mike LWJ Smeenk, Jordi Agramunt, **Kimberly M Bonger***. Recent developments in bioorthogonal chemistry and the orthogonality within. *Curr. Opin. Chem. Biol.* **2021**, 60, 79-88.
30. Steven H.L. Verhelst*, **Kimberly M Bonger***, Lianne I. Willems*. Bioorthogonal Reactions in Activity-Based Protein Profiling. *Molecules* **2020**, 25, 5994.
29. Heleen de Jong, **Kimberly M. Bonger***, D.W.P.M. Löwik*. Activatable cell-penetrating peptides: 15 years of research. *RSC Chemical Biology* **2020**, 1, 192-203.
28. T. Kissel, S. Reijm, L.M. Slot, M Cavallari, C.M. Wortel, R.D. Vergroesen, G. Stoeken-Rijsbergen, J.C. Kwekkeboom, A.S.B. Kampstra, E.W.N. Levarht, J.W. Drijfhout, H. Bang, **K.M. Bonger**, G.M.C. Janssen, P.A. van Veelen, T.W.J. Huizinga, H.U. Scherer, M. Reth, R.E.M. Toes. Antibodies and B cells recognising citrullinated proteins display a broad cross-reactivity towards other post-translational modifications. *Ann Rheum Dis.* **2020**, 0:1-9
27. Lianne Lelieveldt, Selma Eising, Abel Weijen, **Kimberly M. Bonger***, Vinylboronic Acid Caging for Click-to-Release of a Cytotoxic Prodrug. *Org. Biomol. Chem.* **2019**, 17, 8815-8821.
26. Saskia A. Bode, # Selma Eising, # Suzanne B.P.E. Timmermans, Sander van Gemert, **Kimberly M. Bonger***, Dennis

W.P.M. Löwik* Click to Enter: In Situ Activation of Oligo-Arginine Cell-Penetrating Peptides by Bioorthogonal Ligation Reactions. *Chem. Sci.* **2019**, *10*, 701-705.

25. Lianne P. W. M. Lelieveldt, Hendy Kristyanto, Ger J. M. Pruijn, Hans Ulrich Scherer, René E. M. Toes, **Kimberly M. Bonger*** Sequential Prodrug Strategy To Target and Eliminate ACPA-Selective Autoreactive B Cells. *Mol. Pharmaceutics*, **2018**, *15*, 5565–5573

24. Selma Eising, Anthonius H. J. Engwerda, Xian Riedijk, F. Matthias Bickelhaupt*, and **Kimberly M. Bonger*** Highly Stable and Selective Tetrazines for the Coordination-Assisted Bioorthogonal Ligation with Vinylboronic Acids. *Bioconjugate Chem.*, **2018**, *29*, 3054–3059

23. Fleur Kleinpenning, Selma Eising, Tim Berkenbosch, Judith M. Schaart, **Kimberly M. Bonger***. Subcellular protein labeling by a spatially-restricted arylamine N-acetyltransferase. *ACS Chem. Biol.* **2018**, *13*, 1932–1937

22. Selma Eising, Fleur Kleinpenning, Jurriaan J. A. Heming, **Kimberly M. Bonger***. Coordination-Assisted Bioorthogonal Chemistry: Orthogonal Tetrazine Ligation with Vinylboronic Acid and a Strained Alkene. *ChemBioChem* **2018**, *15*, 1648-1652

21. Anouk van der Gracht, Mark de Geus, Marcel Camps, Tracy Ruckwardt, Jessica Bremmers, Elmer Maurits, Joanna Pawlak, Michelle Posthoorn, **Kimberly M. Bonger**, Dmitri Filippov, Herman S. Overkleeft, Marc Robillard, Ferry Ossendorp, Sander van Kasteren. Trans-cyclooctene-modified Epitopes Allow Chemical Control over T-Cell Activation In Vivo. *ACS Chem. Biol.* **2018**, *13*, 1569–1576.

20. Lise Schoonena,# Selma Eising,# Mark B. van Eldijk, Jaleesa Bresseleers, Margo van der Pijl, Roeland J. M. Nolte, **Kimberly M. Bonger***, Jan C. M. van Hest*. Modular, bioorthogonal strategy for the controlled loading of cargo into a protein nanocage. *Bioconjug. Chem.* **2018**, *29*, 1186.

19. Selma Eising, Nicole G. A. van der Linden, Fleur Kleinpenning, **Kimberly M. Bonger***. Vinylboronic Acids as Efficient Bioorthogonal Reactants for Tetrazine Labeling in Living Cells. *Bioconjug. Chem.* **2018**, *29*, 982.

18. Selma Eising, Francis Lelivelt, **Kimberly M. Bonger***. Vinylboronic Acids as Fast Reacting, Synthetically Accessible, and Stable Bioorthogonal Reactants in the Carboni–Lindsey Reaction. *Angew. Chem. Int. Ed.* **2016**, *55*, 12243.

17. Jessie A. van Buggenum, Jan P. Gerlach, Selma Eising, Lise Schoonen, Roderick A.P.M. Eijl, Sabine E.J. Tanis, Mark Hogeweg, Nina C. Hubner, Jan C. van Hest, **Kimberly M. Bonger**, Klaas W. Mulder. Direct and reversible antibody-DNA conjugates for sensitive, multiplexed protein detection in cells. *Sci. Rep.* **2016**, *6*, 22675.

16. Richard J.B.H.N. van den Berg, Erwin R. van Rijssel, Anneke Strijland, Wilma E. Donker-Koopman, Tom Wennekes, **Kimberly M. Bonger**, Amar T. Ghisaidoobe, Sascha Hoogendoorn, Gijsbert A. van der Marel, Jeroen D. C. Codée, Herman S. Overkleeft and Johannes M. F. G. Aerts. Synthesis and evaluation of hybrid structures composed of two glucosylceramide synthase inhibitors. *ChemMedChem* **2015**, *10*, 2042-2062.

15. Sean R. Collins, Hee W. Yang, **Kimberly M. Bonger**, Emmanuel G. Guignet, Thomas J. Wandless and Tobias Meyer. Using light to shape chemical gradients for parallel and automated analysis of chemotaxis. *Mol. Sys. Biol.* **2015**, *4*, 804.

14. Sanne M.M. Hensen, Wilbert C. Boelens, **Kimberly M. Bonger**, Remco T.P. van Cruchten, Floris L. van Delft and Ger J.M. Pruijn. Phenylglyoxal-Based Visualization of Citrullinated Proteins on Western Blots. *Molecules* **2015**, *20*, 6592-6600.

13. **Kimberly M. Bonger***, Rishi Rakhit, Alexander Y. Payumo, James K. Chen, Thomas J. Wandless*. A general method for regulating protein stability by light. *ACS Chem. Biol.* **2014**, *9*, 111-115.
Highlighted in *Chemical & Engineering News*, November 14th 2013.

12. Tom Wennekes#, **Kimberly M. Bonger#**, Katrin Vogel, Richard J.B.H.N. van den Berg, Anneke Strijland, Wilma E. Donker-Koopman, Johannes M.F.G. Aerts, Gijsbert A. van der Marel, Herman S. Overkleeft. The Development of an Aza-C-Glycoside Library Based on a Tandem Staudinger/Aza-Wittig/Ugi Three-Component Reaction. *Eur. J. Org. Chem.* **2012**, *32*, 6420-6454.

11. **Kimberly M. Bonger**, Ling-chun Chen, Corey W. Liu and Thomas J. Wandless. *Small-molecule displacement of a cryptic degron causes conditional protein degradation*. *Nat. Chem. Biol.* **2011**, *7*, 531-537.
Highlighted in *Nature Methods* **2011**, *8*, 711.

10. **Kimberly M. Bonger**#, Sascha Hoogendoorn#, Chris J. van Koppen, C. Marco Timmers, Gijsbert A. van der Marel and Herman S. Overkleeft. Development of selective luteinizing hormone receptor agonists by heterodimerization with follicle-stimulating hormone antagonist. *ACS Med. Chem. Let.* **2011**, *2*, 85-89.

9. **Kimberly M. Bonger**, Varsha V.Kapoerchan, Gijsbert M Grotenbreg, Chris J.van Koppen, C. Marco Timmers, Gijsbert A van der Marel, Herman S. Overkleeft. Oligoproline helices as structurally defined scaffolds for oligomeric G protein-coupled receptor ligands. *Org. Biomol. Chem.* **2010**, *8*, 1881-1884.

8. **Kimberly M. Bonger**#, Sascha Hoogendoorn#, Chris J. van Koppen, Cornelis M. Timmers, Herman S. Overkleeft. Gijsbert A. van der Marel. Synthesis and Pharmacological Evaluation of Dimeric Follicle-Stimulating Hormone Receptor Antagonists. *ChemMedChem* **2009**, *4*, 2098-2102.

7. **Kimberly M. Bonger**, Richard J. B. H. N. van den Berg, Annemiek D. Knijnenburg, Laura H. Heitman, Chris J. van Koppen, Cornelis M. Timmers, Herman S. Overkleeft, Gijsbert A. van der Marel. Discovery of Selective Luteinizing Hormone Receptor Agonists Using the Bivalent Ligand Method. *ChemMedChem*, **2009**, *4*, 1189-1195.

6. Tom Wennekes, Richard J. B. H. N. van den Berg, **Kimberly M. Bonger**, Wilma E. Donker-Koopman, Amar Ghisaidoobe, Gijsbert A. van der Marel, Anneke Strijland, Johannes M. F. G. Aerts, Herman S. Overkleeft, Synthesis and evaluation of dimeric lipophilic iminosugars as inhibitors of glucosylceramide metabolism. *Tetrahedron Asym.* **2009**, *20*, 836-846.

5. **Kimberly M. Bonger**#, Tom Wennekes#, Gerrit Lodder, Dmitri Filippov, Gijs A. van der Marel and Herman S. Overkleeft. The effect of Lewis Acids on the stereochemical outcome of L-Lyxo Pyrroline with the tandem Staudinger aza-Wittig Ugi 3CR. *Eur. J. Org. Chem.* **2008**, *21*, 3678-3688

4. **Kimberly M. Bonger**#, Richard J. B. H. N. van den Berg#, Laura H. Heitman, Ad P. IJzerman, Julia Oosterom, Cornelis M. Timmers, Herman S. Overkleeft, Gijsbert A. van der Marel. Synthesis and evaluation of homobivalent GnRHR ligands having a rigid benzene core. *Bioorg. Med. Chem.* **2008**, *16*, 3744-3758.

3. Laura H. Heitman, Julia Oosterom, **Kimberly M. Bonger**, Cornelis M. Timmers, Peter H.G. Wiegerinck and Adriaan P. IJzerman. [3H]Org 43553, the First Low-Molecular-Weight Agonistic and Allosteric Radioligand for the Human Luteinizing Hormone Receptor. *Mol. Pharmacol.* **2008**, *73*, 518-524.

2. **Kimberly M. Bonger**#, Richard J. B. H. N. van den Berg#, Laura H. Heitman, Ad P. IJzerman, Julia Oosterom, Cornelis M. Timmers, Herman S. Overkleeft, Gijsbert A. van der Marel. Synthesis and evaluation of homobivalent GnRHR ligands. *Bioorg. Med. Chem.* **2007**, *15*, 4841-4856.

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Book Chapter

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