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, synthesis and evaluation 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 spends 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 chemistry and chemoenzymatic methods for imaging, target discovery and precision medicine. In addition, she explores new strategies to understand and modulate the cellular mechanisms involved in (auto)immune diseases.

Work & Education

Current position

Title	Associate Professor (2024-current)
University	Leiden University, Leiden, The Netherlands
Main subject:	Chemical Biology & Immunology

Previous positions

Title and date	Associate Professor (2021-2024) with *Ius Promovendi* Assistant Professor (2013-2021)
University	Radboud University, Nijmegen, The Netherlands
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 degree

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

Bachelor's degree

University college of Higher Education: Hogeschool Leiden, Leiden, The Netherlands

Date:	September 1997 – July 2001
Main subject:	Organic Chemistry

Supervision of students

Postdocs:

January 2024 – Current:	PhD. Margot van Weijsten
September 2021 – current	PhD. Joep Joosten

Graduate Students:

September 2024 – current	MSc. Lucas Bickem
May 2024 – current	MSc. Rocaya Ali
April 2024 – current	MSc. Benjamin Bakker
September 2021 – current	MSc. Enebie Ramos Cáceres
March 2021 – current:	MSc. Daan Hamstra
October 2019 – current:	MSc. Mike Smeenk
September 2019 – current:	MSc. Kevin Venrooij

Alumni postdocs and PhD students

February 2023 – August 2023	PhD. Daphne Dorst
March 2020 – February 2022:	PhD. Jordi Agramunt Pi
March 2019 – February 2020:	PhD. Melek Parlak
October 2019 – March 2024:	MSc. Heleen de Jong; Co-supervised with Dr. D. Lowik (RU)
March 2019 – December 2023:	MSc. Margot van Weijsten
January 2019 – June 2023:	MSc. Bob Ignacio
September 2017 – February 2022:	MSc. Yvonne Bartels; Co-supervised with Dr. P. van Lent (RUMC)
December 2014 – April 2019:	MSc. Lianne Lelieveldt
August 2014 – July 2018:	MSc. Fleur Kleinpenning
May 2013 – March 2018:	MSc. Selma Eising

The graduate students have been awarded several prizes for their work over the past years: **MW:** Best oral presentation, SOC-MCCB symposium 2023 **EB:** Institute for Chemical Immunology annual meeting 2023 (from 30+ posters), **BI:** OHSU chemical biology and physiology 2022 (from 150+ posters), **KV:** Institute for Chemical Immunology annual meeting 2022 (from 30+ posters), **FK:** 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. **SE:** Graduate School of chemical biology 2015 in Konstantz, DE;

Master and Bachelor students:

January 2013 – current:	Supervision of 56 master internships of students graduating in Molecular Chemistry, Chemistry for Life, Medicinal Chemistry, Science, Medical Biology, Molecular Mechanisms of Disease and university of applied sciences.
January 2013 – current:	Supervision of 38 bachelor internships of students graduating in Molecular Chemistry, Chemistry for Life, Science or Medical Biology.

Teaching experience

Course development and lecturing (since 2013):

- 2025: Lecturer Molecular Physiology (MST, BSc)
- 2021-2024: Lecturer and coordinator Medicinal Chemistry (NWI-MOL421, MSc)
- 2016-2018: Lecturer Cell growth and differentiation (MM3CF, MSc)
- 2013-2024: Lecturer Pharmacochemistry (NWI-MOL053, BSc)
- 2013-2024: 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

2024-current:	Organizing committee of Leiden Early Drug Discovery & Development (LED3) lectures
2021-2024:	Member of colloquium committee Molecular Sciences at the Radboud University
2020-2024:	Coordinator Master specialization Medicinal Chemistry at Radboud University
2019-2024:	Coordinator Master specialization Chemistry of Life at Radboud University
2018-current:	Member of several search committees for new tenure track and full professor candidates at Radboud University including professorship Human Biology (2022), tenure track Nanomedicine (2020), tenure track Biomolecular Chemistry (2020), 3x Tenure track Christine Mohrmann (2019).
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
2014-2024:	Active participation in orientation days for high school students at Radboud University such as open days, master classes, career days, girl days and 'proefstuderen'
2013-2016:	Member of the recruitment and communication committee for Molecular Science at Radboud University
2013 – current:	Member of 48 PhD thesis committees: Angela el Hebieshy (LUMC, 2024), Sebastiaan Hamers (LUMC, 2024), Patrick Dekker (Leiden University, 2024), Alexi Sarris (Leiden University, 2024), Mirjam Huizenga (Leiden, University, 2024), Nina Lighthart (Leiden, 2024), Lotte Gerrits (Radboud University, 2024), Wouter van Bergen (Utrecht University, 2024), Hugo Minnee (Leiden University, 2024), Nicola Wade (Leiden University, 2024), Nancy Trenker (Leiden University, 2023), Hendy Kristyanto (Leiden University Medical Center, 2023), Bert Beerkens (Leiden University, 2023), Yara Huppelschoten (Leiden University Medical Center, 2022), Jona Merx (Radboud University 2022), Alexander Bakker (Leiden University 2022), 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

- July 2024 (O): Leiden Institute of Chemistry lecture, Leiden, The Netherlands
- June 2024 (O): Glascow-Nijmegen Symposium, Nijmegen, The Netherlands
- April 2024 (O): Astbury Conversations, Leeds, UK
- December 2023 (O): KVCV-RSC 2023, Brussel, Belgium
- November 2023 (O): EFMC-ICBS 2023, Basel, Zwiterland
- July 2023: (O): 13th International Activity Based Protein Profiling meeting, Weizmann Institute of Science, Israel
- June 2023: (O): 2nd RadboudUMC Oncology Research Retreat, Nijmegen, The Netherlands
- May 2023: (O): 7th Gratama Workshop, Nagasaki, Japan
- March 2023: (O): Leiden University, Leiden, The Netherlands
- September 2022: (O): Chemical Immunology MMD symposium, Radboud University, Nijmegen, The Netherlands
- September 2022: (O): 2nd Munich-Leiden Virtual ChemBio Talks
- April 2022: (O): Chemical Biology & Physiology Conference OHSU, Portland, USA
- March 2022: (O): KNCV Medicinal Chemistry and Chemical Biology Symposium, Amsterdam, The Netherlands
- November 2021: (O): Byondis lecture, Nijmegen, The Netherlands
- August 2021: (O): Virtual 48th IUPAC World Chemistry Congress, Montreal, Canada
- June 2021: (O): Virtual RSC Bioorthogonal and Bioresponsive symposium, Edinborough, 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): Honoury 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

- 2024: Scientific Committee member of the 14th Activity Based Protein Profiling meeting, London, UK
- 2022: Member of the Program Committee 49th IUPAC World Chemistry Congress /CHAINS 2023; The Hague, Netherlands: ~ 2500 participants
- 2022: Member of the Program Committee CHAINS 2022; Netherlands: ~ 1500 participants
- 2021: Member of the Program Committee CHAINS 2021; Netherlands: ~ 1500 participants
- 2021: Co-organizer of 48th IUPAC World Chemistry Congress, Montreal, Canada
- 2016 - current: Co-organizer of the biannual international KNCV chemistry symposium in the Netherlands with ~ 170 participants
- 2015 - current: Co-organizer of the biannual national KNCV chemistry symposium in the Netherlands
  With ~ 120 participants
- 2016: member of study group committee for Chains2016 with ~ 1500 participants.
- 2016: Co-organizer of the NextGenChem meeting in Nijmegen, the Netherlands with 50 participants.
- 2015: Co-organizer of the Dutch peptide symposium in Nijmegen with 130 participants.
- 2014: Co-organizer of the national sIMMposium meeting in Nijmegen the Netherlands with 100 participants

Prices, grants and awards

- 2024: ERC Proof of Concept (160 k€)
- 2024: Venture Challenge 2024 Certificate
- 2023: ERC Consolidator Grant (2.5 M€)
- 2022: Radboud Interdisciplinary Research Platform (50 k€, Co-applicant with Dr. S. Lücker)
- 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)
- 2020: Learning by Simulation certificate for module: Drug Development
- 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 and activities at 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
2018-2022:	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-curent:	Member or 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

- Guest editor *Communications Chemistry: Covalent Chemical Probes Collection*, Springer Nature, 2024
- Member of the search committee Editor of *Bioconjugate Chemistry*, ACS, 2022
- Member of the Editorial Advisory Board *ACS Chemical Biology*
- Member of the International Advisory Board *European Journal of Organic Chemistry*
- Expert Evaluator, FWF Austrian Science Fund, 2021
- Panel member, Netherlands Organization for Scientific Research, Klein Grant 2020
- Expert Evaluator, Research Executive Agency of the European Commission, H2020 ERC_StG, ERC_CoG, ERC_AdG
- Panel member, Netherlands Organization for Scientific Research, VENI Fellowships 2019
- Expert Evaluator, Research Executive Agency of the European Commission, H2020 FET OPEN RIA 2019
- Expert Evaluator, Czech Science Foundation, 2018

- Panel member, Netherlands Organization for Scientific Research, ECHO Fellowships 2018
- 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*

Outreach to the general public

- ICI bulletin: https://chemicalimmunology.nl/files/ici/bulletins/ici-magazine-v15-digital.pdf
- Volkskrant commentary on the 2022 Nobel prize in chemistry: https://www.volkskrant.nl/nieuws-achtergrond/nobelprijs-scheikunde-voor-klikchemie-een-ingenieus-gereedschap-om-met-moleculen-te-bouwen~b69fc941/
- IRP voucher: https://www.youtube.com/watch?v=gilVJaUzYLM
- ICI bulletin: https://chemicalimmunology.nl/files/ici/bulletins/ici-magazine-v13.pdf
- 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

Peer Reviewed Publications

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*# Equal contribution; * Corresponding author*

47. Annemieke C. Bouwman, Antoinette van Weverwijk, Onno B. Bleijerveld, Liesbeth Hoekman, Bob J. Ignacio, **Kimberly M. Bonger**, Karin E. de Visser, Assessment of the primary cancer cell secretome using amino acid-analog labelling, Methods in Cell Biology, **2024**, *Accepted Manuscript*

46. Bob J. Ignacio, Nicole van der Zanden, Lisa Herwig, **Kimberly M. Bonger*.** Protein modification through metabolic incorporation of non-canonical amino acids. *Science of Synthesis: Abiotic Reactions in Live Environments* **2024**, *Submitted Manuscript*

45. Vrielink et al. In-depth immunometabolic profiling by measuring cellular protein translation inhibition via bioorthogonal noncanonical amino acid tagging (CENCAT). *Cell Reports Methods,* **2024** *Accepted manuscript*.

44. Enebie Ramos Cáceres, Lotte Kemperman, **Kimberly M. Bonger*.** Environment-Sensitive Fluorescent Probe Enables Live Cell Imaging of Myeloperoxidase Activity during NETosis. *Communications Chemistry*, **2024** *Accepted manuscript.*

43. Kevin R. Venrooij, Lucienne de Bondt, **Kimberly M. Bonger***. Mutually Orthogonal Bioorthogonal Reactions: Selective Chemistries for Labeling Multiple Biomolecules Simultaneously. *Current Topics in Chemistry,* **2024**, *382*, 24.

42. Floris P. J. T. Rutjes*, **Kimberly M. Bonger*,** Kevin Neumann*. Bioorthogonal chemistry at Radboud University: Past, present and future, *Synlett,* **2024**, *35,* A-I.

41. Yvonne L. Bartels, Peter L.E.M. van Lent, Peter van der Kraan, Arjen B. Blom, **Kimberly M. Bonger#,** Martijn H.J. van den Bosch,# Inhibition of TLR4 signalling to dampen joint inflammation in osteoarthritis. *Rheumatology* **2024,** *63*, 608-618.

40. Margot J. van Weijsten, Kevin R. Venrooij, Lianne P.W.M. Lelieveldt, Tessa Kissel, Erik van Buijtenen, Floris J. van Dalen,

Martijn Verdoes, Rene E.M. Toes, **Kimberly M. Bonger*** The effect of antigen valency on autoreactive B-cell targeting. *Mol. Pharmaceutics,* **2023,** *21,* 481-490.

39. Miles D. Holborough-Kerkvliet1, Greta Mucignato, Sam J. Moons, Venetia Psomiadou, Rohit S.R. Konada, Nichole J. Pedowitz, Matthew R. Pratt, Theresa Kissel, Carolien A.M. Koeleman, Rayman T.N. Tjokrodirijo, Petrus A. van Veelen, Thomas Huizinga, Karin A.J. van Schie, Manfred Wuhrer, Jennifer J. Kohler, **Kimberly M. Bonger**, Thomas J. Boltje, Reinaldus E.M. Toes. A photoaffinity glycan labeling approach to investigate immunoglobulin glycan binding partners. *Glycobiology* **2023**, *33*, 732-744.

38. Joep Joosten*, Bob van Sluijs, Wilma Vree Egberts, Martin Emmaneel, Pascal W.T.C. Jansen, Wilhelm T.S. Huck, Michiel Vermeulen, Wilbert Boelens#, **Kimberly M. Bonger#,** Evan Spruijt#. Dynamics and composition of small heat shock protein condensates and aggregates. *Mol. Cel. Bio* **2023,** *435,* 168139.

37. Daan Sondag, Luuk Maartense, Heleen de Jong, Frank F. J. de Kleijne, **Kimberly M. Bonger,** Dennis W. P. M. Löwik, Thomas J. Boltje, Jan Dommerholt, Paul B. White, Daniel Blanco-Ania, Floris P. J. T. Rutjes, Readily Accessible Strained Difunctionalized trans-Cyclooctenes with Fast Click and Release Capabilities. *Chemistry - A European Journal.* **2023**, *29*, e202203375.

36. Bob J. Ignacio, Jelmer Dijkstra, Erik Slot, Natalia Mora Garcia, Margot van Weijsten, Erik Storkebaum, Michiel Vermeulen, **Kimberly M. Bonger*** THRONCAT: Metabolic labelling of newly synthesized proteins using a bioorthogonal threonine analogue. *Nat. Commun.* **2023,** *14,* 3367.

35. 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**, *8*, 1486–1493.

34. 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.

33. Camille M. Le Gall, Johan M.S. van der Schoot, Iván Ramos-Tomillero, Melek Parlak Khalily, Floris J. van Dalen, Zacharias Wijfjes, 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.

32. 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.

31. Steven H.L. Verhelst*, **Kimberly M Bonger*,** Lianne I. Willems*. Bioorthogonal Reactions in Activity-Based Protein Profiling. *Molecules* **2020**, 25, 5994.

31. 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.

29. 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

28. 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.

27. 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.

26. 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

25. 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

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