Universiteit Leiden

Jeroen Codee

Professor Chemistry

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Overview

Profile

Contact

Publications

Ancillary activities

Curriculum Vitae

Personal information

Nationality: Dutch
Date of birth: 30 July 1975

Education

2004 PhD, Leiden Institute of Chemistry, Leiden University, The Netherlands, 29 September 2004. Thesis title: *"Chemical Synthesis of Oligosaccharides - A focus on thioglycosides and glycosaminoglycans"*
Advisors: Prof. Dr. J.H. van Boom and Prof. Dr. C.A.A. van Boeckel
1999 MSc in Chemistry, Faculty of Chemistry, Leiden University, The Netherlands

Current and previous research positions

2020 - now *Full Professor of Organic Chemistry,* Leiden Institute of Chemistry, Leiden University, The Netherlands
2009 – 2020 *Assistant Professor,* Leiden Institute of Chemistry, Leiden University, The

Netherlands
2007 – 2009 *Post-doctoral Researcher* (Veni), Leiden University, Leiden, The Netherlands, (Prof. G.A. van der Marel)
2004 – 2006 *Post-doctoral Researcher* (TALENT stipend), Eidgenossische Technische Hochschule (ETH) Zürich, Switzerland (Prof. P.H. Seeberger)

Grants, awards, recognitions since 2010

2023 Emil Fischer Award
2023 NWO Snellius Supercomputer time (main applicant, 11.206.400 SBU)
2021 NWO Cartesius Supercomputer time (main applicant, 6.600.000 SBU)
2020 ICI "Amsterdam-Leiden-Nijmegen vaccine consortium: synthetic peptide conjugates for cancer therapy" (co-applicant, k€ 750)
2020 NWO Cartesius Supercomputer time (main applicant, 3.695.650 SBU)
2019 Marie Curie ITN "PAVax" (coordinator, k€ 1.054)
2019 NWO VICI "Dissecting glycosylation reaction mechanisms" (main applicant, k€ 1.500)
2018 NWO TOP "ENDOGLYCOPROBE" (co-applicant with H. Overkleeft and H. Aerts, k€ 780)
2018 NWO LISA Supercomputer time (main applicant, 2.150.550 SBU)
2017 Carbohydrate Research Award for Creativity in Carbohydrate Chemistry
2016 ERC Consolidator grant (k€ 2,000)
2015 NWO-CW ECHO grant (k€ 260)
2015 EU Marie Curie ITN Grant "GLYCOVAX" (k€ 468)
2014 EU Marie Curie ITN Grant "IMMUNOSHAPE" (k€ 218)
2013 NWO KIEM (k€ 19)
2012 NWO-CW Middelgroot grant with Prof. van der Marel (k€ 129)
2011 NWO-CW ECHO grant with Prof. van der Marel (k€ 260)

Contribution to teaching and supervision

- Course 'Biomolecular Chemistry' for BSc Molecular Science and Technology (Leiden/Delft)
- Courses 'Reactivity on Organic Chemistry', and 'Molecules of Life' for MSc Chemistry (Leiden)

Current supervision of 13 PhD students. PhD supervisor of 39 PhD theses (2 cum laude and awarded with the Backer Prize for best Organic Chemistry Thesis in the Netherlands) and 26 PDs since 2011.

Other responsibilities since 2016

- Organizer Glycoscience NL, 2023, Utrecht, NL
- Editor European Journal of Organic Chemistry, 2022 "Carbohydrate Chemistry"
- Editor of Drug Discovery Today: Technologies, Vol 35-36, 2020 "Translating basic research into novel vaccines"
- Organizer Eurocarb XX, 2019, Leiden, NL
- Editor of Carbohydrate Chemistry: Proven Synthetic Methods – Volume 2
- Chairman of the exam committee of the BSc curriculum MST (Leiden/Delft)

- Member of review panel for the Netherlands Organisation for Scientific Research (NWO, Vici panels 2022, 2023)
- Member of the education committee of the BSc programme MST (Leiden/Delft, 2015-2016)
- Member of the Leiden Institute of Chemistry Council (2013-)
- External member to PhD committees in Australia, Canada, Denmark, Ireland, Belgium, Letland, Sweden, Netherlands
- Reviewer for all major (organic) chemistry journals: Nature Chemistry, Nature Communications, Angewandte Chemie, Journal of the American Chemical Society, Chemical Science, Chemistry – A European Journal

Publication record including five recent representative publications

224 papers and book chapters with 6396 citations, H-index 41 (Web of Science)

Full publication record: Leiden University (https://www.universiteitleiden.nl/en/staffmembers/jeroen-codee/publications)

- Z. Wang, A. Poveda, Q. Zhang, L. Unione, H. S. Overkleeft, G. A. van der Marel, J. Jiménez-Barbero, J. D. C. Codée, Total synthesis and structural studies of zwitterionic Bacteroides fragilis polysaccharide A1 fragments *J. Am. Chem. Soc.* **2023**, 145, 14052-14063. DOI: 10.1021/jacs.3c03976 (https://doi.org/10.1021/jacs.3c03976)
- S. Ishizuka, J. H. M. van Dijk, T. Kawakita, Y. Miyamoto, Y. Maeda, M. Goto, G. Le Calvez, L. M. Groot, M. D. Witte, A. J. Minnaard, G. A. van der Marel, M. Ato, M. Nagae, J. D. C. Codée, S. Yamasaki, PGL-III, a rare intermediate of Mycobacterium leprae phenolic glycolipid biosynthesis, is a potent Mincle ligand *ACS Centr. Sci.* **2023**, 9, 1388-1399. DOI: 10.1021/acscentsci.3c00040 (https://doi.org/10.1021/acscentsci.3c00040)
- J. M.A. van Hengst, R. J.C. Hellemons, W. A. Remmerswaal, K. N. A. van de Vrande, T. Hansen, S. van der Vorm, H. S. Overkleeft, G. A. van der Marel, J. D. C. Codée, Mapping the effect of configuration and protecting group pattern on glycosyl acceptor reactivity *Chem. Sci.* **2023**, 14, 1532-1542. DOI: 10.1039/D2SC06139B (https://doi.org/10.1039/D2SC06139B)
- C. Di Carluccio, P. Soriano Maldonado, F. Berni, C. J. C. de Haas, A. R. Temming, A. Hendriks, S. Ali, A. Molinaro, A. Silipo, N. M. van Sorge, M. J. van Raaij, J. D. C. Codée, R. Marchetti, Antibody recognition of different Staphylococcus aureus wall teichoic acid glycoforms. *ACS Centr. Sci.* **2022**, 8, 1383-1392. DOI: 10.1021/acscentsci.2c00125 (https://doi.org/10.1021/acscentsci.2c00125)
- N. R. M. Reintjens, E. Tondini, A. R. de Jong, N. J. Meeuwenoord, F. Chiodo, E. Peterse, H. S. Overkleeft, D. V. Filippov, G. A. van der Marel, F. A. Ossendorp, J. D. C. Codée, Self-adjuvanting cancer vaccines from conjugation-ready lipid A analogues and synthetic long peptides *J. Med. Chem.* **2020**, 63, 11691-11706. DOI: 10.1021/acs.jmedchem.0c00851 (https://doi.org/10.1021/acs.jmedchem.0c00851)

Presentations including five presentations at international conferences since 2016

>60 invited presentations at universities and institutes, and invited, and keynote lectures at international conferences since 2012

- Eurocarb XXI, 9-13 July 2023, Paris, France, plenary lecture
- RSC Carbohydrate Group Autumn Meeting, 22-23 November 2022, Belfast, UK, plenary lecture
- Pacifichem, 18 December 2022, Hawaii, USA, invited lecture
- French GlycoSciences Group Conference, 21-25 May 2018, plenary lecture
- European Carbohydrate Symposium, 2-6 July 2017, Barcelona, Spain, plenary lecture