

Sijbren Otto

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1. PERSONAL

Personal data

Date of birth	August 3, 1971
Marital status	Married, 3 children (born 2007, 2009 and 2013)
Nationality	Netherlands
Sex	Male

Degrees

1994	M.Sc. University of Groningen – The Netherlands <ul style="list-style-type: none">• Principal subject: physical organic chemistry• Subsidiary subject: biochemistry
1998	Ph.D. University of Groningen- The Netherlands (with Prof. J.B.F.N. Engberts – physical organic chemistry in water)

Academic employment

1998 - 1999	Post doctoral researcher – Lehigh University, Bethlehem, USA (with Prof. S.L. Regen)
1999 - 2001	Marie Curie Postdoctoral Fellow – University of Cambridge, (with Prof. J.K.M. Sanders)
2001 - 2009	Royal Society University Research Fellow – University of Cambridge, UK (independent position as Research Group Leader)
2008 - 2009	Guest Teacher (gastdocent) – University of Groningen, The Netherlands
2009 - 2011	Assistant Professor – University of Groningen, The Netherlands
2011 - 2016	Associate Professor – University of Groningen, The Netherlands
2016 - present	Full Professor – University of Groningen, The Netherlands

Honours and awards

1994	M.Sc. <i>Cum laude</i>
1998	Ph.D. <i>Cum laude</i>
1999	Marie Curie Fellowship, University of Cambridge, UK
2000	Junior Research Fellowship, Wolfson College, Cambridge, UK
2001	Royal Society University Research Fellowship, University of Cambridge, UK
2005	Royal Society Merit Increment
2011	European Research Council (ERC) Starting Grant (1.5 M €)
2013	NWO VICI grant (1.5 M €)
2013	Elected Fellow of the Royal Society of Chemistry (FRSC)
2013	Visiting Professor, University of Strasbourg, France
2017	European Research Council (ERC) Advanced Grant (2.5 M €)
2018	Visiting Professor, Ludwig Maximilian University, Munich, Germany
2018	Supramolecular Chemistry Award from the Royal Society of Chemistry, UK
2020	Elected member of the Dutch Royal Academy of Arts and Sciences (KNAW)
2021	Visiting Professor, Kanazawa University, Japan
2022	James Flack Norris Award in Physical Organic Chemistry, American Chemical Society (second Dutch scientist to win this award)
2023	Izatt-Christensen Award in Macrocyclic and Supramolecular Chemistry

2. PROFESSIONAL SERVICE AND MANAGEMENT

Membership of professional societies

- Member of the American Chemical Society (ACS)
- Member of the UK Royal Society of Chemistry (RSC)
- Member of the Royal Dutch Chemistry Association (KNCV)
- Honorary member of the Israel Chemical Society (ICS)
- Member of the Dutch Royal Academy of Sciences (KNAW)
- Member of the Chemical Building Blocks Consortium (CBBC)

Editorial board of scientific journals

- Joined Editor-in-Chief of the *Journal of Systems Chemistry* (2010-present)
- Member of the Editorial Board of the *New Journal of Chemistry* (2013 – present)
- Member of the Editorial Board of the *Adv. Phys. Org. Chem.* (2015 – present)
- Member of the Editorial Board of *Chem* (2015 – 2018)

Scientific executive boards

2011 - present	Member of the Netherlands Institute for Catalysis Research (NIOK) Research Committee
2011 - 2012	Chairman and Grant Holder of COST action CM0703 on Systems Chemistry (involving 50 European research groups)
2014 - 2017	Chairman and Grant Holder of COST action CM1304 on Emergence and Evolution in Complex Chemical Systems (>95 European research groups)
2014 - 2019	Director of teaching, responsible for the Chemistry Master education
2015	Chair of SysChem2015 (International conference on Systems Chemistry)
2016 - present	Chemistry representative on the steering group of the Dutch Origins Center
2017 - 2018	Chair of the annual Netherlands' Catalysis & Chemistry Conference (NCCC) > 500 participants.
2018 - 2022	Initiator and inaugural Vice Chair and Chair of the Gordon Conference Series on Systems Chemistry
2021	Co-organizer Lorenz Workshop "Out-of-equilibrium systems, emergence, and life"
2021 - present	"Trekker" of National Science Agenda Route "Origins of Life on Earth and in the Universe" (jointly with Prof. Ten Kate, UU)
2023	Co-chair Origins Center Symposium 2023
2023 - present	International Advisory Board member, Department-of-Excellence Programme "Complexity in Chemistry" 9M €, University of Padova, Italy (2023-2027).

3. TEACHING

2009 - present	Masters course on "Reaction Mechanisms"
2009 - present	Masters course on "Supramolecular Chemistry" for chemistry students
2009 - present	Master course on "Supramolecular Chemistry" for nanoscience topmaster students
2009 - 2011	Undergraduate course on "Systems chemistry and the Origin of Life"
2011 - present	Undergraduate course on "Soft Molecular Materials"
2013 - present	Masters course on "Synthetic Biology and Systems Chemistry"

4. OUTREACH

- Appearances on national television, radio, newspapers
- Reddit – ask me anything
- Museum exhibit
- Public lectures on the origin and synthesis of life to audiences ranging from primary and secondary school children to the general public and learned societies
- Host for secondary school student projects
- Designed animations explaining the group's research to a general audience (see:www.otto-lab.com)

5. GRANT SUPPORT

2001 - 2009	Royal Society University Research Fellowship: £552,810
2003 - 2006	EPSRC / GlaxoSmithKline – Case award for new academics: £57,000.
2004 - 2007	EPSRC – Dynamic combinatorial chemistry £1,093,157 (with Prof. Jeremy K. M. Sanders as PI).
2005 - 2010	EU: COST D-31 Working Group on dynamic combinatorial chemistry (as coordinator)
2005 - 2009	EU: Marie Curie Early Stage Training Host Fellowship : £113,693 (with Dr. F. Hollfelder as coordinator)
2006 - 2008	EPSRC: Adventurous chemistry: £51,621
2006 - 2008	EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Enda Bergin £103,645
2006 - 2010	EU: Marie Curie Research Training Network REVCAT: £213,023 (with Prof. J. Reek as coordinator)
2006 - 2010	EU: Marie Curie Research Training Network DCC: €2,387,452 (as coordinator)
2007 - 2009	EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Karine Barral: £103,645
2007 - 2010	Cambridge Graduate Training Programme in Medicinal Chemistry: £89,400
2008 - 2012	EPSRC: From Dynamic combinatorial to systems chemistry (with Prof Sanders; total value £1,724,775; transferred to Groningen: £862,388)
2010 - 2011	EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Yang Han: €169,992
2010 - 2014	NWO ECHO grant: Self-replication driven by self-organisation: €260,000
2010 - 2014	EU: Marie Curie Initial Training Network Dynamol (with Dr. J. Nitschke as coordinator): €236,993
2011 - 2013	EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Morteza Malakoutikhah: €169,035
2011 - 2013	EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Vittorio Saggiomo: €184,041
2011 - 2016	ERC Starting Grant: REPLI, Self replication in dynamic molecular networks €1,499,702
2012 - 2016	EU: Marie Curie Initial Training Network READ Replication and adaptation in molecular networks €3,036,050 (as coordinator)
2012 - 2016	NWO ChemThem Out-of-equilibrium assembly of dynamic combinatorial hydrogels. €500,000 (as PI; collaboration with Dr Jasper van der Gucht, University of Wageningen).
2013 - 2023	NWO Gravity Grant (as one of 6 main applicants) €26M Research Centre for Functional Molecular Systems
2013 - 2018	NWO Vici grant (€1.5 M) Molecular recognition and self-replication in dissipative molecular networks
2013 - 2015	EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Andrea-Nekane Roig Alba: €175,975
2013 - 2017	EU: COST Action on Emergence and Evolution of Complex Chemical Systems (as Main Applicant; budget approximately 140k per year)
2014 - 2018	Zernike Dieptestrategie (RUG) as PI with Marrink van Ooijen as co-applicants: Towards Darwinian Evolution of Synthetic Charge-Transport Materials. 1.5 PhD positions + 92k for equipment and consumables.
2014 - 2018	EU: Marie Curie Initial Training Network ResMoSys (with Dr. J. Nitschke as coordinator): approximately €240k
2017 - 2022	ERC Advanced Grant: ToDL, Towards de-novo life €2,5M
2017 - 2018	EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Charalampos (Babis) Pappas: €165,599
2018 - 2019	EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Kai Liu: €165,599
2020 - 2022	EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Joydev Hatai: €166k

2020 - 2024 Zernike Dieptestrategie (RUG): 1 PhD position
2021 - 2023 EU: Marie Curie Individual Postdoctoral Fellowship for Dr. Meagan Beatty:
€166k
2021 - 2023 EU: oLife Cofund program – Postdoctoral Fellowship for Dr. Yannick Geiger
2023 - 2027 EU: Marie-Curie Doctoral Training Network DarChemDN “Darwinian
Chemistry” €2,7M (as coordinator)
2023 - 2029 ERC Synergy grant: MiniLife “De novo construction and evolvability of
minimal lifelike systems” Proposal Title €13M (with Prof. Szathmáry, Prof.
Griffith and Prof. Ashkenasy)