**CURRICULUM VITAE**

**Carol Vivien Robinson DBE FRS FMedSci**

##### **Personal and Contact Details**

**Date of Birth** 10th April 1956

**Maiden Name** Bradley

**Nationality** British

**Contact details** Kavli Institute for NanoScience Discovery

New Biochemistry Building

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https://kavlinano.ox.ac.uk

https://www.omass.com

##### **Education and Appointments**

**2021** Founder Director, Kavli Institute for NanoScience Discovery, Oxford

**2016** Founder Director, OMass Therapeutics, Oxford

**2009**  Professorial Fellow, Exeter College, Oxford

**2009**  Dr Lee’s Professor of Physical and Theoretical Chemistry, University of Oxford

**2006 - 2016**  Royal Society Research Professorship

**2003 - 2009** Senior Research Fellow, Churchill College, University of Cambridge

**2001** - **2009**  Professor of Mass Spectrometry, Dept. of Chemistry, University of Cambridge

**1999** - **2001** Titular Professor, University of Oxford

**1998 - 2001** Research Fellow, Wolfson College, Oxford

**1995 - 2001** Royal Society University Research Fellow, University of Oxford

**1991 - 1995** Postdoctoral Research Fellow, University of Oxford. Supervisor: Prof. C. M. Dobson FRS

**1991 - 1991** Postgraduate Diploma in Information Technology, University of Keele

**1983 - 1991** Career break: birth of three children

**1982 - 1983** MRC Training Fellowship, University of Bristol Medical School

**1980 - 1982**  Doctor of Philosophy, University of Cambridge. Supervisor: Prof. D. H. Williams FRS

**1979 - 1980** Master of Science, University of Wales. Supervisor: Prof. J. H. Beynon FRS

**1976 - 1979** Graduate of the Royal Society of Chemistry, Medway College of Technology, Kent

**1972 - 1976** ONC and HNC in Chemistry, Canterbury College of Technology, Kent

**1972 - 1979** Laboratory Technician, Pfizer, Sandwich, Kent

##### **Accolades and Distinctions**

2021 International Honorary Member of the American Academy of Arts and Sciences

2018 - 2020 President of the Royal Society of Chemistry

2017 Foreign Associate of the US National Academy of Sciences

**2017** President Elect of the Royal Society of Chemistry

**2013** Dame Commander of the Order of the British Empire

**2009** Fellow of the Academy of Medical Sciences

2004 Fellow of the Royal Society

##### **Medals, Awards, Prizes**

**2022** The Louis-Jeantet Prize for Medicine from Louis-Jeantet Foundation, Switzerland

**2022** Benjamin Franklin Medal in Chemistry from the Franklin Institute, USA

**2022** European Chemistry Gold Medal from the European Chemistry Society (EuChemS)

**2021** Biological and Medicinal Chemistry Sector Medal from the Royal Society of Chemistry, UK

**2021** Othmer Gold Medal from the Science History Institute

**2020** Academy Prize from the Royal Academy of Belgium

**2019** Royal Medal A from the Royal Society

**2019** Stein and Moore Award from the Protein Society

**2019** Novozymes Prize from the Novo Nordisk Foundation

**2018** Field and Franklin Award from the American Chemical Society

**2017** Hans Krebs Medal from the FEBS

**2016** Astra Zeneca Award from the Biochemical Society

**2016** Torbern Bergmann Award from the Swedish Chemical Society

**2015** Havinga Medal from the Havinga Foundation

**2015** Women in Science Award form L’Oreal-UNESCO

**2014** Kaj Linderstrøm-Lang Prize from the Carlsberg Research Center

**2014** Thomson Medal Award from the International Mass Spectrometry Foundation

**2013** Anatrace Award for Membrane Proteins from the Biophysical Society USA

**2012** Distinguished Achievement in Proteomic Sciences from HUPO

**2011** Interdisciplinary Prize from the Royal Society of Chemistry

**2011** Woman of the Year Award from FEBS/EMBO

**2011** Aston Medal from the British Mass Spectrometry Society

**2010**  Davy Medal from the Royal Society

**2010**  Prelog Medal from ETH, Zurich

**2008**  Anfinsen Award from the Protein Society

**2004** Rosalind Franklin Award from the Royal Society

**2003** Biemann Medal from the American Society for Mass Spectrometry

**2002** Silver Medal from the Royal Society of Chemistry for Mass Spectrometry

##### **Honorary Titles**

2022 Honorary Doctorate from the University of Swansea

2022 Honorary Doctorate from the University of Sussex

2020 Honorary Doctorate from the Weizmann Institute of Science

2019 Honorary Doctorate from Aarhus University Denmark

2018 Honorary Doctorate from Ben-Gurion University

2017 Honorary Doctorate from the University of Southern Denmark

2017 Honorary Doctorate from The Open University

2017 Honorary Doctorate from the University of Huddersfield

2016 Honorary Fellowship of Wolfson College Oxford

**2016** Honorary Fellowship of the Royal Society of Chemistry

**2016** Honorary Doctorate from the University of Liverpool

**2014** Honorary Professorship from the Nanjing University of Science and Technology

2013 Honorary Member of the British Biophysical Society

**2013** Honorary Doctorate from the University of Bristol

**2012** Honorary Fellow of Churchill College, Cambridge

**2010**  Honorary Doctorate from the University of York

**2009**  Honorary Doctorate from the University of Kent

##### Named Lectures

# 2022 Jordan Translational Medicine Lecture 2022, Oxford, UK

# 2022 Louis-Jeantet Award Lecture, Geneva, Switzerland

**2022** EuChemS Gold Medal Award Lecture, Lisbon, Portugal

# 2022 Franklin Institute Award Lecture, USA

# 2022 McConnell Lecture, Stanford University and Caltech, USA

# 2021 Michael Smith Distinguished Research Lecture, University of BC, Canada (virtual)

# 2021 The Redfearn Memorial Lecture, University of Leicester, UK (virtual)

# 2021 The Jones Lecture, Queens University, Kingston, Ontario, Canada (virtual)

# 2021 The Hinshelwood Lectures, University of Oxford, UK

# 2020 Distinguished Bashour Lecture, UT South Western, USA (virtual)

# 2019 Rayson Huang Visiting Lectureship, Hong Kong

# 2019 Annual Biophysical Society Lecture, Baltimore, USA

**2018** Joe L Franklin Memorial Lecture, RICE, Houston, USA

**2018** Webster Lecture, Case Western Reserve University, Cleveland, USA

**2018** Dame Anne McLaren Lecture, University College London, UK

**2018** Lee Seng Tee Distinguished Lecture, University of Cambridge, UK

**2018** TheCynthia Ann Chan Lecture, University of California, Berkeley, USA

**2018**  The Mabel Fitzgerald Lecture, University of Oxford, UK

**2018** The Inaugural Annual David James Lecture, University of Cambridge, UK

**2017** The Peter Garland Lecture, Dundee, Scotland

**2017** The Fritz Lipmann Lecture, Bochum, Gemany

**2017** Hans Krebs Lecture, Jerusalem, Israel

**2017** Baddiley Lecture, Newcastle University, UK

**2017** Georgina Sweet Lecture, Melbourne, Australia

**2017** Frederick Soddy Lecture, Merton College, Oxford, UK

**2016** The Astra Zeneca Medal Award Lecture, Biochemistry Society, London, UK

**2016** The Harry G. Day Lecture, University of Indiana, USA

**2016** The Torbern Bergman Award Lecture, Umea, Sweden

**2016** The Chemistry Anniversary Lecture, University of York, UK

**2016** The Royal Institution Discourse, London, UK

**2015** The Amgen Lecture, Shanghai, China

**2015** The Havinga Medal Lecture, Leiden, The Netherlands

**2015** The Irving O Shoichet Lecture, Toronto, Canada

**2015** The 2015 Rodney Porter Lecture, Oxford, UK

**2015** The Hobart H. Willard Memorial Lecture, University of Michigan, USA

**2014** The Kaj Linderstrøm-Lang Award Lecture, Copenhagen, Denmark

**2014** The Daniell Lecture, Kings College London, UK

**2014** The Evans Award Lecture, The Ohio State University, USA

**2014**  The Cornforth Lecture, University of Sussex, UK

**2014** The Thomson Medal Award Lecture, Geneva, Switzerland

**2014** The Birch Lecture, The Australian National University, Canberra, Australia

**2014** The Ruth and Eddie Hughes Lecture, California Institute of Technology, USA

**2014** The Dorothy Hodgkin Memorial Lecture, Oxford, UK

**2014** The Burger Lecture, University of Virginia, USA

**2013** The Charles E. Dohme Memorial Lecture 2013, Baltimore, USA

**2013** The Krebs Lecture, University of Sheffield, UK

**2013** The Anatrace Protein Award Lecture, Philadelphia, USA

**2013** The Medawar Lecture, MRC, Mill Hill, UK

**2013** The Clapp Lectures, Brown University, Rhode Island, USA

**2012** The Randall Lecture, Kings College, London, UK

**2012** The Dewar Lecture, Queen Mary University, London, UK

**2012** The DeLuca lecture, University of California San Diego, USA

**2012** The Carlson Lecture, John Hopkins University, Baltimore, USA

**2012** EMBL Distinguished Scientist Lecture, Heidelberg, Germany

**2012** Alex Hopkins Memorial Lecture, Cambridge, UK

**2011** Van’t Hoff Award Lecture, Royal Academy of Dutch Scientists, The Netherlands

**2011** Sarkar Lecture, Hospital for Sick Children, Toronto, Canada

**2010** Maud Menten Lecture, University of Western Ontario, Canada

**2010** Maurice Wilkins Lecture, University of Auckland, New Zealand

**2010**  MacColl Lecture, British Mass Spectrometry Society, Cardiff, UK

**2009** John Kendrew Lecture, Weizmann Institute, Rehovet, Israel

**2008** Radcliffe Science Lecture, Harvard University, Boston, USA

**2008** Dow Lecture, University of Vancouver, Canada

**2007** Schorstein Lecture, William Harvey Day, St Bartholemew’s Hospital, London, UK

**2006** Wilson Baker Lecture, University of Bristol, UK

**2005** Harry Emmett Gunning Lecture, University of Alberta, Canada

**2005** Marker Lecture, University of Maryland, USA

**2005** Buck Rogers Lecture, University of Georgia, USA

**2004** Meloche Lecture, University of Wisconsin at Madison, USA

##### Current Professional Activities

**2021** Commissioner of the 1851 Fellowship Board of Management

**2021** Member of the Novozymes Prize Committee

**2021** Member of the Jury for the ‘Chemistry for the Future Solvay Prize’

**2021** Associate Editor, *Journal of the American Chemical Society*

**2020** Member of the Advisory Panel, Rosalind Franklin Institute, Harwell

**2020** Member of theHHMI Investigator Review Panel

**2018** International Advisory Board Member, *Angewandte Chemie*

**2016** Member of the Selection Committee for the Dr Paul Janssen Award

**2016** Member of the Selection Committee for the Infosys Prize

**2016** Member of the Board of Directors, The Bert L & N Kuggie Vallee Foundation

**2015** Scientific Advisory Board Member, Dept. of Biochemistry, University of Oxford

**2015** Editorial Board Member, *Structure*

**2015** Advisory Board Member, The Royal National Children’s SpringBoard Foundation, London

**2012** Editorial Board Member, *Current Opinion in Structural Biology*

##### Previous Professional Activities

**2016 - 2018** Member, Council of the Royal Society

**2015** - **2018** Member, Board of Trustees, Rhodes House, Oxford

**2015 - 2018** Chair of the L’Oreal Women in Science Programme

**2015 - 2017** Member, Board of Trustees, Heinrich Wieland Prize, Boehringer Ingelheim Foundation

**2014 - 2017** Chair, The Royal Society, Rosalind Franklin Award Committee

**2014 - 2017** Member, The Royal Society, Dorothy Hodgkin Fellowship Selection Committee

**2011 - 2014** Member, The Royal Society, Awards Nominations Committee

**2012 - 2013** Panel Member, ERC Synergy Grant Selection and Evaluation Panel

**2012 - 2013** Associate Head, Mathematical, Physical and Life Sciences Division, University of Oxford

**2012 - 2013** Member, Government Blackett Review Panel for Biosecurity

**2000** - **2013** Associate Editor, *Journal of the American Society for Mass Spectrometry*

**2008 - 2009** Council Member, The Royal Society

**2005 - 2007** Member, The Royal Society, Physical Sciences Awards Committee

Member, The Royal Society, Dorothy Hodgkin Fellowship Selection Panel

Member, The Royal Society, Rosalind Franklin Award Committee

Member, The Royal Society, Medals and Awards Selection Panel

**2007** - **2009** Assistant Head, Department of Chemistry, University of Cambridge

**2003 - 2009** Member, Faculty Board of The Physical Sciences, University of Cambridge

**2002 – 2014** Member, Editorial Board, *Journal of Molecular and Cellular Proteomics*

**1998 - 2007** Associate Editor, *Protein Science*

**1998 - 2002** Committee Member, BBSRC Biomolecular Sciences Panel

##### Current Grants

**2021 – 2024 Wellcome Leap (Year 1 & 2 budgets) £ 2,444,967** A trans-omic platform to define molecular interactions

underlying anhedonia at the blood-brain interface

**2021 - 2026 Medical Research Council £ 1,758,852**

Developing mass spectrometry to understand molecular

mechanisms of antibacterial and antiviral drugs

**2021 – 2026 Wellcome Trust Investigator Award £ 2,188,451**

Targeting membrane proteins in their native environments – Mass

spectrometry meets cell biology

**2019 - 2024 Wellcome Trust £ 808,928**

Multi-user equipment grant (PI)

##### Patents

**Drug Binding to Membrane Pumps:**

***Detection of membrane protein-therapeutic agent complexes by mass spectrometry.***European Patent GB-201110272-DO (Granted)

***Detection of membrane protein-therapeutic agent complexes by mass spectrometry.***US Patent Application US9536718B2 (Granted).

**Improved DESI MS for High-Throughput Screening of Drug Candidates (Membrane Proteins):**

***Detection of membrane proteins from surfaces***

PCT Application PCT/GB2017/050539 (Published – Filed).

**GPCR Detergent:  
*Detection of folded GPCRS in complex with signalling proteins.***UK Application 1703033 (Unpublished – Filed).

**SoLVe:**

***Sonicated lipid vesicle MS for ejection of complexes directly from membranes***

PCT application PCT/GB2019/052421 (Unpublished - Filed).

**Nativeomics:**

***Multiple rounds of MS for the fragmentation and detection of unknown ligands***

**Dendritic Detergents:**

***Dendritic detergents for the analysis of proteins by mass spectrometry***

Publication number: 20210188902 (published 24 June, 2021)

##### Contributions to industry

In 1998 Professor Robinson proposed a mass spectrometry design to Micromass UK Ltd to enable the transmission and analysis of macromolecular complexes through a mass spectrometer. This contributed to a worldwide increase in sales of Q-tof and Synapt mass spectrometers, many of them incorporating her proposed modifications. In 2016 she founded, and became Director and Chief Scientific Consultant, to OMass Technologies Ltd. The company formed partnership agreements with pharmaceutical and biotechnology companies to tackle challenging targets using cutting edge mass spectrometry approaches. Within a year of its inception, Professor Robinson made her first pitch for investment to FTSE250 company, Syncona. Following successful Series A funding (£14 M) from Syncona, the company took a new direction, exploiting its platform technology for membrane protein drug targets and relaunching as OMass Therapeutics in 2018 ([Home | Omass](https://omass.com/)). The new company focused on understanding its targets at the molecular level and developing treatments for a range of rare conditions with high unmet patient need. With expanded series A investment (£27.5M) in 2020, the company now has two bases, one in Oxford and one in Nottingham and a head count of some 42 FTEs. OMass scientists hail from all over the world and range from chemists, computational scientists, strategists, pharmacologists, structural biologists and biochemists. Professor Robinson continues to play an active role in the company as a Founder Director and Scientific Advisor.

##### Teaching and Mentorship

Over the course of her career in both Cambridge and Oxford, Professor Robinson has supervised 35 graduate students, 24 DPhils and 62 postdoctoral researchers. Her research group continues to encompass many scientists with young children and she also takes an active role in mentoring early career researchers through the tenure process, particularly female scientists with family commitments. Alumni of the Robinson research group have gone on to have successful careers in academia, occupying tenured positions in USA, Australia, New Zealand, Europe and UK, as well as industry, bringing their unique MS skills to a variety of high-level posts in the UK, Denmark and USA.

##### Public Awareness in Science – selected media interviews

**2021**

* Oxford University Innovation Entrepreneurs Fellowship, 2nd February: Question and Answer with Carol Robinson
* Association for Science Education, 8th January 2021: *‘Inspiring Science Teachers - Conversation with a scientist, Dame Carol Robinson’.*

**2020**

* Nature Porfolio, 23rd May 2020: Podcast, ‘*A chat with Carol Robinson’*

[A chat with Carol Robinson | Nature Portfolio Chemistry Community](https://chemistrycommunity.nature.com/posts/a-chat-with-carol-robinson)

* Article, Nature Methods, 4thMay 2020: *‘Identifying things small and large in one mass spec experiment, and why persistence matters’*

<https://www.nature.com/articles/s41592-020-0824-x?proof=t>

**2018**

* L’Oreal filming with Miranda Cresswell, 26th February 2018: *‘The Making of a Scientist’.*
* Interview with Kim Hill on [RNZ National’s Saturday Morning](https://www.radionz.co.nz/national/programmes/saturday), 8th March 2018: <https://www.radionz.co.nz/national/programmes/saturday/audio/2018635535/dame-carol-robinson-elemental-medicine>
* Auckland Museum, 20th March 2018: *‘What’s really inside your medicine cabinet?’*

**2017**

* BBC News, 11th January 2017: *‘Oxford professor meets child superfan’*

<http://www.bbc.co.uk/news/uk-england-oxfordshire-38580944>

**2015**

* [The Independent on Sunday, 8th March 2015](file:///C:\Users\anne.gough\Documents\Anne\Newspapers%20Interviews%20CVR\2015\08.03.15%20The%20Independent%20on%20Sunday%20Scientist%20who%20has%20detected%20a%20missing%20element%20SCAN.pdf): *Scientist who has detected a missing element.*
* The Times Higher Education, 19th March 2015: *Q & A with Dame Carol Robinson*

<https://www.timeshighereducation.co.uk/news/people/qa-with-dame-carol-robinson/2019106.article>

* International Business Times, 25th March 2015: Professor Dame Carol Robinson: *Award-winning scientist who broke the glass ceiling at Oxbridge.*

<http://www.ibtimes.co.uk/professor-dame-carol-robinson-award-winning-scientist-who-broke-glass-ceiling-oxbridge-1493546>

* BBC Radio 4 Woman’s Hour, 23rd April 2015: Interview with Jenny Murray.
* The Huffington Post, 12th May 2015: *Science should NOT be perceived as a man’s world.*

<http://www.huffingtonpost.co.uk/dame-carol-robinson/women-in-science_b_7263246.html>

**2014**

* Science Careers, 11th February 2014: Comment on ‘More action needed to retain women in Science’

<http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2014_02_11/caredit.a1400036>

* BBC Radio 4, The Life Scientific, 22nd July 2014: Interview with Jim Al-Khalili

<http://www.bbc.co.uk/programmes/b049yhcn>

* MRC Network Magazine, September 2014: Interview for ‘Working Lives’

<http://www.mrc.ac.uk/news-events/publications/network-autumn-2014/>

* Financial Times, 12th December 2014: *A chemist in her element* – interview for FT ‘House and Home’

<http://www.ft.com/cms/s/0/fdc185f6-7bb2-11e4-a695-00144feabdc0.html>

**2013**

* The Telegraph, 27th July 2013: *‘Women in the workplace’*

##### Selected Women in Science Events

**2019** Oxford Women in Chemistry, University of Oxford, Oxford, UK

**2019** Hosted Kuggie Vallee Distinguished Lecture, Prof. Kyoko Nozaki

**2019** Hosted Female Leaders in Science Workshop

**2019** Empowering Women in Chemistry, RSC Global breakfast event

**2018** Launch of the RSC ‘Breaking the Barriers’ report

**2013** Annual Lecture at the University of Sheffield’s Women’s Network

**2013** Women’s Career and Networks Symposium, Opening Keynote Lecture, Goettingen, Germany

**2012** Women in Science, Engineering and Technology Initiative Annual (WiSETI) Lecture, Cambridge

**2012** [Interview](file:///D:\Anne\Newspapers%20Interviews%20CVR\2012%20Churchill%20College%20Review%20-Interview%20with%20Carol%20Robinson%20Final.pdf) to mark 40th anniversary of admission of women, Churchill College, Cambridge

**2011** Media interviews:

* [Science](http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2011_03_11/caredit.a1100021), 11th March 2011: *Re-entering academia – A success story*
* [People and Science](file:///D:\Anne\Newspapers%20Interviews%20CVR\2011%20People%20&%20Science%20-Are%20women%20changing%20science.pdf), June 2011: *Are women changing science?*
* [Nature](file:///D:\Anne\Newspapers%20Interviews%20CVR\2011%20Nature%20-%20In%20pursuit%20of%20female%20chemists.pdf), 17th August 2011: *Women in Science: In pursuit of female chemists*
* [EMBO Encounters](file:///D:\Anne\Newspapers%20Interviews%20CVR\2011%20EMBO%20Encounters%20-%20FEBS-EMBO%20Woman%20in%20Science%20Award%20Interview.pdf), Summer 2011: FEBS/EMBO Woman in Science Award interview

**2010** Media interview:

* The Sunday Telegraph Stella Magazine, 30th May 2010: The working woman’s dilemma

**2008** Talk, Houses of Parliament: Experiences of a woman scientist

**2004**  Rosalind Franklin Public Lecture, The Royal Society

**2004** Media interviews:

* [The Times Higher Education](http://www.timeshighereducation.co.uk/188629.article), 14th May 2004: Mother wins top prize for science
* [The Guardian](http://www.theguardian.com/education/2004/jun/22/highereducationprofile.highereducation), 22nd June 2004: Carol Robinson: Society doyenne
* BBC Radio 4 Woman’s Hour, 28th June 2004: Professor Carol Robinson on becoming a Royal Society Fellow

<http://www.bbc.co.uk/radio4/womanshour/2004_26_mon_03.shtml>

* BB2 Working Lunch: Interview on returning after a career break

**2003 - 2004** Lectures to sixth form:

* Kesteven & Grantham Girl's School, Lincolnshire
* St. Paul’s Girl’s School, London
* Hill’s Road Sixth Form College, Cambridge

**2003 - 2009** Promotion of science in local primary schools to 11-12 year olds

##### Invited Lectures (last three years)

**2023**

**February** 4th InterAcademy Workshop, Stockholm, Sweden

**January** Keynote Lecture: ASMS 33rd Sanibel Conference: Membrane Proteins and their Complexes: Mass Spectrometry and Beyond, Florida, USA

**2022**

**October** Jordan Translational Medicine Lecture 2022, Oxford, UK

Amgen Thousand Oaks Lecture Series, California, USA (virtual)

The Francis Crick Institute Lecture Series, London, UK

Louis-Jeantet Award Lecture, Geneva, Switzerland

**August** EuChemS Gold Medal Award Lecture, Lisbon, Portugal

**June** COMPAA Symposium,New York, USA

**May** McConnell Lecture, Stanford University and Caltech, USA

**March** Seminar, University of Wisconsin Madison, USA

**2021**

**December** Michael Smith Distinguished Research Lecture, University of BC, Canada (virtual)

**November** University of Heidelberg, Germany (virtual)

Redfearn Memorial Lecture, University of Leicester, UK (virtual)

International Chemical Biology Society, Emory University, USA (virtual)

**October** Max Planck Institute for Solid State Research, Stuttgart, Germany (virtual)

The Jones Lecture, Queens University, Ontario, Canada (virtual)

Oxford University Dept of Pharmacology, UK (virtual)

**September** Scripps University, Frontiers in Chemical Biology Series, USA (virtual)

Rosalind Franklin Institute, Harwell, UK (virtual)

Cambridge Medicinal Chemistry Conference, UK (virtual)

**July**  Babraham Lecture Series, University of Cambridge, UK (Virtual)

European Biophysics Conference, Vienna, Austria (Virtual)

**June** ACS Publications Symposium (Virtual)

**May** The Hinshelwood Lectures, University of Oxford, UK

**April** American Society for Biochemistry and Molecular Biology (ASBMB) (Virtual)

**March** Plenary Lecture: Human Proteome Organisation (HUPO) 2021, USA (Virtual)

Cambridge University Scientific Society, UK (Virtual)

Purdue University, Indiana, USA (Virtual)

**February** University of Massachusetts-Amherst, USA (Virtual)

**2020**

**October** Distinguished Bashour Lecture, Dallas, USA (virtual)

The Salter’s Institute, Alumni Event and Awards Ceremony, London, UK (virtual)

Rosalind Franklin Institute, London, UK (virtual)

Keynote Lecture: Wellcome Centre for Human Genetics High Profile Seminar, Oxford, UK (virtual)

UCSD, Chemistry & Chemical Biology Seminar Series, San Diego, USA (Virtual)

**February** Kohn – IASH Workshop, Jerusalem, Israel

**January** Oxford Chemistry Alumni Event, Royal Society of Chemistry, London, UK

### PUBLICATIONS

**2022**

1. O. Akkermans, C. Delloye-Bourgeois, C. Peregrina, M. Carrasquero-Ordaz, M. Kokolaki, M. Berbeira-Santana, M. Chavent, F. Reynaud, R. Raj, J. Agirre, M. Aksu, E. S. White, E. Lowe, D. B. Amar, S. Zaballa, J. Huo, I. Pakos, P. T. N. McCubbin, D. Comoletti, R. J. Owens, C. V. Robinson, V. Castellani, D. del Toro and E. Seiradake

GPC3-Unc5 receptor complex structure and role in cell migration.

**Cell,** 2022, 185(21), 3931-3949.e26.

1. D. Wu and C. V. Robinson

Native Top-Down Mass Spectrometry Reveals a Role for Interfacial Glycans on Therapeutic Cytokine and Hormone Assemblies.

***Angew Chemie Intl Ed***, 2022, 61(49): e2022131.

1. X. Yao, Y. Wang, Z. Wang, X. Fan, D. Wu, J. Huang, A. Mueller, S. Gao, M. Hu, C. V. Robinson, Y. Yu, S. Gao and N. Yan.

Structures of the R-type human Cav2.3 channel reveal conformational crosstalk of the intracellular segments.

***Nature Comms,*** 2022, 13(1): 7358.

1. P. A. M. Schmidpeter, D. Wu, J. Rheinberger, P. M. Riegelhaupt, H. Tang, C. V. Robinson and C. M. Nimigean.

Anionic lipids unlock the gates of select ion channels in the pacemaker family.

***Nat Struct & Mol Biol***, 2022, 29(11): 1092-1100.

1. M. Webby, A. Oluwole, C. Pedebos, P. Inns, A. Olerinyova, D. Prakaash, N. Housden, G. Benn,   
   D. Sun, B. Hoogenboom, P. Kukura, S. Mohammed, C. V. Robinson, M. A. Khalid and C. Kleanthous. Lipids mediate supramolecular outer membrane protein assembly in bacteria.

***Science Advances***, 2022. 8(44): eadc9566.

1. T. K. Esser, J. Böhning, P. Fremdling, M. T. Agasid, A. Costin, K. Fort, A. Konijnenberg, J. D. Gilbert, A. Bahm, A. Makarov, C. V Robinson, J. L. P. Benesch, L. Baker, T. A. M. Bharat, J. Gault and S. Rauschenbach.

Mass-selective and ice-free electron cryomicroscopy protein sample preparation via native electrospray ion-beam deposition.

***Proc Natl Acad Sci USA***, 2022, 1(4): 153.

1. L. R. Kjølbye, L. Sørensen, J. Yan, N. A. Berglund, J. Ferkinghoff-Borg, C. V. Robinson  
   and B. Schiøtt.

Lipid modulation of a class B GPCR: Elucidating the modulatory role of PI(4,5)P2 lipids.

***J. Chem. Inf. Model***. 2022, *in Press.*

1. H-Y Yen, I. Liko, W. Song, P. Kapoor, F. Almeida, J. Toporowska, K. Gherbi, J. T. S. Hopper,   
   S. J. Charlton, A. Politis, M. S. P. Sansom, A. Jazayeri and C. V. Robinson.

Mass spectrometry captures biased signaling and allosteric modulation of a G-protein coupled receptor.

***Nat Chem,*** 2022, *in Press.*

1. L. H. Urner, I. Liko, K. Pagel, R. Haag and C. V. Robinson.

Non-ionic hybrid detergents for protein delipidation.

***Biochim Biophys Acta Biomembr***, 2022, 1864(9): 183958.

1. C. A. Lutomski, T. J. El-Baba, C. V. Robinson, R. RiekSjors, H. W. Scheres, N. Y. Mohammed,

A. Quraishi and L. Gan.

The next decade of protein structure.

***Cell***, 2022, 185(15): 2617-2620.

1. Y. Zi Tan, Y. M. Abbas, J. Ze Wu, D. Wu, K. A. Keon, G. G. Hesketh, S. A. Bueler, A-C. Gingras, C. V. Robinson, S. Grinstein and J. L. Rubinstein.

CryoEM of endogenous mammalian V-ATPase interacting with the TLDc protein mEAK-7.

***Life Sci***, 5, 11: p.e202201527.

1. H. K. H. Fung, S. Grimes, A. Huet, R. L. Duda, M. Chechik, J. Gault, C. V. Robinson, R. W. Hendrix, P. J. Jardine, J. F. Conway, C. G. Baumann and A. A. Antson.

Structural basis of DNA packaging by a ring-type ATPase from an archetypal viral system.

***Nucleic Acids Res,*** 2022, gkac647.

1. R. Khera, A. R. Mehdipour, J. R. Bolla, J. Kahnt, S. Welsch, U. Ermler, C. Muenke, C. V. Robinson, G. Hummer, H. Xie and H. Michel.

Cryo-EM structures of pentameric autoinducer-2 exporter from Escherichia coli reveal its transport mechanism.

***EMBO J***, 2022, e109990.

1. D. Wu and C. V. Robinson.

Understanding glycoprotein structural heterogeneity and interactions: Insights from native mass spectrometry.

***Curr Opin Struct Biol***, 2022, 74: 102351.

1. P. A. Lang, R. Raj, A. Tumber, C. T. Lohans, P. Rabe, C. V. Robinson, J. Brem and C. J. Schofield.

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