Herman Waldmann Group leader 1994-2020

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Lara Marks biography :-

https://www.whatisbiotechnology.org/index.php/people/summary/Waldmann

Curriculum Vitae.

Date of Birth: 27 February 1945, Age: 79 years

Position: Emeritus Professor of Pathology
Former Head of Department, Professor of Pathology

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University of Oxford
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University of Cambridge Degrees

1966	BA Natural Sciences Tripos. Class I
1970	MB, BChir. Distinction in Pharmacology and Therapeutics
1974	PhD
1977	MA.

Professional Qualifications & Membership of Professional Bodies

1981	Member of the Royal College of Pathologists (MRC Path)
1988	member of the Royal College of Physicians (MRCP)
1990	Fellow of the Royal Society (FRS)
1992	Fellow of the Royal College of Pathologists (FRCPath)
1998	(Founding) Fellow of the Academy of medical Sciences.(FMed Sci)
2010	Fellow of the Royal College of Physicians (FRCP)

Posts Held

1969-1970	House Physician and Surgeon, London Hospital
1970-1973	MRC Junior Research Fellowship whilst PhD Student
1973-1976	Demonstrator, Dept of Pathology, University of Cambridge
1973-1978	Research Fellow, King's College, Cambridge
1975-1976	Tutor, King's College, Cambridge & University Lecturer, Dept of Pathology

1978-1979 Visiting Scientist with Dr C Milstein, Laboratory of Molecular Biology, Cambridge
1982 Senior House Officer, Dept of Medicine, Royal Postgraduate Medical School, London
1985 Reader in Therapeutic Immunology, Dept of Pathology, Cambridge
1985 Fellow, King's College, Cambridge
1987 Eleanor Roosevelt Fellowship, Stanford, USA
1989 Kay Kendall Professor of Therapeutic Immunology, Dept of Pathology
1994 - 2008 Director of the Therapeutic Antibody Centre, University of Oxford
1994- 2012 Head of Department, Professor of Pathology, Sir William Dunn School of Pathology, University of Oxford.

Research

From 1979 until 2020 my major research support was through Medical Research Council (MRC) Programme Grants in the field of therapeutic immunoregulation as well as numerous project grants in related areas.

Prizes, Awards, Scholarships, etc

1965 Exhibitioner Sidney Sussex College, Cambridge
1966 Honorary Scholar Sidney Sussex College, Cambridge
1966 Open Scholarship, London Hospital Medical School
1968 Arnold Thompson Prize for Medical and Surgical Diseases of Children.
1968 Andrew Elliot Prize for Obstetrics and Gynaecology
1974 Hutchinson Prize for Clinical Research, London Hospital
1981 Royal Society Guest Research Fellowship Award.
1989-90 Graham Bull Prize, Royal College of Physicians
1992 Bradshaw Lecture, Royal College of Physicians
1996 Honorary Fellow, Queen Mary & Westfield College
1999 Heberden Lecture medal, British Society of Rheumatology
2005 Jose Carreras Award, European Hematology Association
2005 JDRF Excellence in Clinical Research Award
2007 Thomas E Starzl Prize in Surgery and Immunology
2007 Scrip Lifetime Achievement award from the Pharmaceutical industry.
2008 Honorary Fellowship, Sidney Sussex College, Cambridge
2008 ScD (Hon) Cambridge University
2010 Honorary Fellowship, Kings College, Cambridge
2012 Princess Lillian Visiting Professorship (Belgium).
2015 Cesare Casella Medal, Collegio Borromeo, University of Pavia, for contributions to Therapeutic Immunology
2017 Honorary Life membership of the British Society of Immunology.
2023 Royal Medal (Bioogy) of the Royal Society.

Named Lectures

Hume Memorial Lecturer - American Transplantation Society 1989
Janssen-Cilag Lecturer - The Transplantation Society of Australia & New Zealand 1990
Pierre Grabar Lecturer for the French Society for Immunology 2001

Donald Paty Memorial Lecture, Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS) and Consortium of Multiple Sclerosis Centres (CMSC) 2007
University of Iowa Distinguished Professor Lecture 2007
Severo Ochoa Lecture, New York University School of Medicine 2008
Paul Ruseell Visiting Professorship and lecturer MGH 2014

Short biography

I am currently Emeritus Professor of Pathology at the University of Oxford, and in the period 1994-2013. I was Head of the Sir William Dunn School of Pathology at Oxford FROM 1994-2012. As an immunologist, I am best known for my work on regulatory T-cells in therapeutic (infectious) tolerance and for pioneering therapeutic use of monoclonal antibodies, particularly Campath-1 (Alemtuzumab/lemtrada developed for lymphocyte depletion and used for the treatment of chronic lymphocytic leukemia and multiple sclerosis, in particular.

I received my undergraduate and graduate degrees from the University of Cambridge and began my scientific career there in the Department of Pathology. In 1989 I became Head of the Immunology Division in that department, and was appointed to the newly endowed Kay Kendall Chair in Therapeutic Immunology. It was at Cambridge in 1971 that I began studies on mechanisms of tolerance in the immune system, and how tolerance might be harnessed for therapeutic purposes.

Since 1980 I have been funded by Programme Grants from the UK Medical Research Council and the European Research Council to study mechanisms of tolerance and therapeutic strategies to achieve this both experimentally and clinically. In 1985 I published the first studies to show that short courses of CD4 antibody therapy could bring about long-term immunological tolerance to foreign proteins in rodents, and this work provided the first evidence for reprogramming of the immune system resulting from short-tem antibody treatment.

Our mechanistic studies of tolerance uncovered a role for regulatory T cells in infectious tolerance, published in a seminal paper in Science in 1993. The strategies emerging from my laboratory since that time have been based on the use of therapeutic antibodies to enhance regulation over conventional T cell immunity. In order to apply antibodies clinically, I developed the first academic antibody therapeutic manufacturing facility. My team consequently was able to apply clinical-grade antibodies in a wide range of probing therapeutic studies that enabled us to develop a series of humanized antibodies (CD52, CD3, CD4 and others) which have since been transferred to the pharmceutical industry.

My work since 1971 has resulted in more than 550 publications, the majority directed to therapeutic antibodies and their mechanisms of action. These contributions have led to my election to the UK Royal Society in 1990. In recognition of my work I have been the recipient of the Jose Carreras Medal of the European Hematology Society, the Juvenile Diabetes Research Foundation Excellence in Clinical Research Award (2005), Thomas E Starzl Prize in Surgery and Immunology, Scrip Lifetime Achievement award (2007), Royal Medal (Biology) of the Royal Society for pioneering Monoclonal Antibody therapy, and have received an Honorary Doctorate (DSc) from University of Cambridge (2008).

One of the important aspects of developing therapeutic antibodies has been to establish ways of avoiding their immunogenicity. With Dr Greg Winter we published from 1988 the first papers demonstrating the feasibility and application of antibody engineering to humanization of a therapeutic antibody. These publications laid the foundation for future applications of antibody engineering to reduce antibody immunogenicity and to enhance efficacy.

1. Waldmann, H. **Regulatory T cells and transplantation tolerance: Emerging from the darkness? European Journal of Immunology 51, 2021. 1580-1591 (https://doi.org/10.1002/eji.202048795).**
2. Howie, D.,Ten Bokum, A, Cobbold, SP and Waldmann, H A Novel Role for Triglyceride Metabolism in Foxp3 Expression. Front Immunol, 2019. 10: p. 1860-
3. Waldmann, H., Human Monoclonal Antibodies: The Benefits of Humanization. Methods Mol Biol, 2019. 1904: p. 1- Oxford Textbook of Cancer Biology ed Francesco Pezzella. Oxford University Press Waldmann, H. Cancer Immunologyu. ISBN: 9780198779452
4. Leung, C.S., Yang, K.Y., Li, X., Chan, V.W., Ku, M., Waldmann, H., Hori, S., Tsang, J.C.H., Lo, Y.M.D., and Lui, K.O. (2018). Single-cell transcriptomics reveal that PD-1 mediates immune tolerance by regulating proliferation of regulatory T cells. Genome Med *10*, 7
5. Leung et al. Regulatory T Cells Promote Apelin-Mediated Sprouting Angiogenesis in Type 2 Diabetes. Cell Rep. 6. 1610-1626
6. Stockenhuber, K., et al., Foxp3(+) T reg cells control psoriasiform inflammation by restraining an IFN-I-driven CD8(+) T cell response. J Exp Med, 2018. 8.1987-1998
7. Cobbold, S.P., et al., CD4(+) T Cell Fate Decisions Are Stochastic, Precede Cell Division, Depend on GITR Co-Stimulation, and Are Associated With Uropodium Development. Front Immunol, 2018. **9**: p. 1381.
8. Howie, D., Cobbold, S.P., Adams, E., Ten Bokum, A., Necula, A.S., Zhang, W., Huang, H., Roberts, D.J., Thomas, B., Hester, S.S., et al. (2017). Foxp3 drives oxidative phosphorylation and protection from lipotoxicity. JCI Insight 2, e89160.
9. Howie, D., et al., The Role of Lipid Metabolism in T Lymphocyte Differentiation and Survival. Front Immunol, 2017. **8**: p. 1949.
10. Besancon, A., Baas, M., Goncalves, T., Valette, F., Waldmann, H., Chatenoud, L., and You, S. (2017). The Induction and Maintenance of Transplant Tolerance Engages Both Regulatory and Anergic CD4+ T cells. Front Immunol 8, 218.
11. Wallberg, M., et al., Anti-CD3 treatment up-regulates programmed cell death protein-1 expression on activated effector T cells and severely impairs their inflammatory capacity. Immunology, 2017. **151**(2): p. 248-260.
12. Tsuda, M., Tone, Y., Ogawa, C., Nagaoka, Y., Katsumata, M., Necula, A., Howie, D., Masuda, E., Waldmann, H., and Tone, M. (2017). A Bacterial Artificial Chromosome Reporter System for Expression of the Human FOXP3 Gene in Mouse Regulatory T-Cells. Front Immunol 8, 279.
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15. Wallberg, M., Recino, A., Phillips, J., Howie, D., Vienne, M., Paluch, C., Azuma, M., Wong, F.S., Waldmann, H., and Cooke, A. (2017). Anti-CD3 treatment up-regulates programmed cell death protein-1 expression on activated effector T cells and severely impairs their inflammatory capacity. Immunology 151, 248-260.
16. Waldmann H, Howie D, Cobbold S. Induction of Immunological Tolerance as a Therapeutic Procedure Microbiol Spectr. 2016 Aug;4(4). doi: 10.1128

17. Waldmann, H and Winter, G. The evolution of therapeutic antibodies. 2016 (In press). Oxford textbook of Medicine. Editors Warrell, DA. Cox, TH and Firth, JD. Oxford University Press.
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