
Biographical Sketch

NAME	POSITION TITLE
Christopher E. Rudd	Professor

EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University College London	PhD	1984	Immunology
University College London	DSc	1999	Molecular immunology

Positions and Employment

1986-87	Instructor in Pathology, Dana-Farber Cancer Institute, Harvard Medical School, Boston
1987-93	Assistant Professor of Pathology, Harvard Medical School, Boston
1987-01	Faculty member of the Immunology Program, Harvard Medical School, Boston
1991-01	Tutor, Department of Biochemistry and Molecular Biology, Harvard University, Boston
1993-00	Associate Professor of Pathology, Harvard Medical School, Boston
1994-01	Faculty member of the Biological and Biomedical Sciences, Harvard Medical School
2000-	Professor of Haematology, Imperial College London, Hammersmith Hospital, London
2003-	Head, Molecular Immunology Section, Department of Immunology, Imperial College, London
2002-05	Theme -Leader for Immunology and Inflammation, Imperial College London
2005-07	Visiting Professor, Imperial College London
2005-	Professor of Molecular Immunology, Department of Pathology, Cambridge University
2005-	Head, Cell Signalling Section, Department of Pathology, Cambridge University
2005-	Member, Faculty of Biology, Cambridge University
2008-	Principal Investigator, Cambridge Institute of Medical Research, Cambridge University

Honors

1985-1988	Postdoctoral Fellowship, Cancer Research Institute, New York, USA
1988-1992	Cancer Research Institute/Benjamin Jacobson Family Investigator Award, New York, USA
1990-1992	Claudia Adams Barr Research Award, Boston, USA
1993-1999	Scholar Award of the Leukemia Society of America, New York, USA
2000-	Recipient of the Principal Research Fellowship (PRF), Wellcome Trust, London
2000	Member of the Royal College of Pathologists, London (MRCPath)
2001	Fellow of the Royal College of Pathologists, London (FRCPath)
2002	Fellow of the Academy of Medical Sciences, London (FMedSci)

Professional Service:

1993 Medical Research Council of Canada, Ad Hoc Reviewer; 1995 The Wellcome Trust, Ad Hoc Reviewer; 1995 The Arthritis Society, Ad Hoc Reviewer; 1995 National Cancer Institute of Canada, Ad Hoc Reviewer; 1994 NIH Immunology Study Section (ALY), Ad Hoc Reviewer; 1995-1998 NSF Signal Transduction Study Section, Present Member; 1996- NIH Biochemistry Study Section, Ad Hoc Reviewer; 1996 NIH ALY Study Section, Ad Hoc Reviewer; 1998 National Human Genome Research Institute (NHGRI) site visit team; 1998 NAAID, R03 Ad Hoc Reviewer; 1998- Department of Cancer Immunology and AIDS (Dana-Farber Cancer Institute) Steering Committee; 1999-Member of the Career Development Committee, Leukemia and Lymphoma Society (formerly Leukemia Society of America); 1999 Co-chair of T-cell activation session of AAI meeting, Washington (April, 1999); 1999 Organizer and Chairperson (with Dr. Larry Samelson) of FASEB meeting "Signal transduction in the Immune System" (Saxtons River, June 1999); 2000- Member of Executive Committee, Division of Investigative Sciences, Department of Medicine, Imperial College School of Medicine and Technology; 2002 Member of Site-review Committee (Juvenile Diabetes Research Foundation

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Principal Investigator/Program Director (Last, first, middle):

International, New York); 2003-2004 Member of Project Grants Committee, Cancer Research UK (CRUK); 2003- Member of the British Society for Immunology (BSI) Meetings Committee; 2003-Member of AfCS (Alliance for Cellular Signaling) 2003 Co-chair of T-cell activation session of BSI meeting, London/Harrogate (2003); 2003 Leukaemia Research Foundation, Ad Hoc Reviewer; 2003- Member of the Higher Degrees Committee, Division of Investigative Sciences, Imperial College London; 2003- Member of the Promotions Committee, Division of Investigative Sciences, Imperial College London; 2004- Theme leader for Infection and Immunity, Faculty of Medicine, Imperial College London. 1994-1999 Associate Editor, Journal of Immunology; 1999- Editorial Board, Current Biology; 2001- Editorial Board, Immunology; 2008- Guest Editor, Proceedings National Academy of Science (PNAS); 2008- Academic Editor, PLOS ONE (Public Library of Science (PLoS)); 2009- Editorial Board, European Journal of Immunology; 2009- Editorial Board, Self/Non-Self, Immune recognition and signaling ; 2010 Guest Editor, Seminars in Immunopathology (June 2010); 2010-Review Editorial Board, Frontiers in T Cell Biology; 2011- Advisory Board, Seminars in Immunopathology 2006-2007 Member of the Program Committee, 4th International Leukocyte Signal Transduction Workshop: Clinical implications of signaling pathways (Rhodes, Greece, June 3-8, 2007); 2007- Council Member, International Union of Immunological Societies (IUIS) 2008-09 Member, Scientific Committee, 2nd European Congress of Immunology (Berlin, Sept 13-16, 2009). 2009- Member, Organising Committee, 15th International Congress of Immunology (ICI) (Rome, August, 2013).

Selected Peer Reviewed Publications (25 of 147 papers)

1. Austin P, Trowsdale J, **Rudd C**, Bodmer W, Feldman M, Lamb J. Functional expression of HLA-DP genes transfected into mouse fibroblasts. *Nature* 1985; 313:61-4.
2. **Rudd CE**, Morimoto C, Wong L, Schlossman SF. The subdivision of the T4 (CD4) population of T cells on the basis of the differential expression of L-C/T200 antigens. *J Exp Med.* 1987; 166:1758-73.
3. Morimoto C, **Rudd CE**, Letvin NL, Schlossman SF. A novel epitope of the LFA-1 which can distinguish killer effector and suppressor cells in human CD8+ cells. *Nature* 1987; 330: 479-82.
4. **Rudd CE**, Trevillyan JM, Wong LL, Dasgupta JD, Schlossman SF. The CD4 receptor is complexed to a T-cell specific tyrosine kinase (pp58) in detergent lysates from human T lymphocytes. *Proc Nat'l Acad Sci USA.* 1988; 85, 5190-94.
5. Barber, EK, Dasgupta JD, Schlossman SF, Trevillyan JM, **Rudd CE**. The CD4 and CD8 antigens are coupled to a protein-tyrosine kinase (p56lck) that phosphorylates the CD3 complex. *Proc. Nat'l. Acad. Sci. USA*, 1989; 86, 3277-81.
6. Brod, S, **Rudd CE**, Hafler D Lymphokine Regulation of CD45R Expression on Human T cell Clones. *J. Exp. Med.* 1989; 170, 2147-2152.
7. Telfer, J and **Rudd, CE**. A 32Kd GTP-Binding Protein is Associated with the CD4:p56lck and CD8:p56lck T-Cell Receptor Complexes. *Science* 1991; 254, 439-441.
8. Prasad KVS, Janssen O, Kapeller R, Raab M, Cantley LC, **Rudd CE**. Src-homology 3 domain of protein kinase p59fyn mediates binding to phosphatidylinositol (PI 3-kinase) in T cells. 1993. *Proc. Natl. Acad. Sci. USA* 90, 7366-70.
9. Cai, Y.C., Cefai, D., Schneider, H., Raab, M, Berg, L. and **Rudd, C.E.** (1995) Selective CD28YMNM mutations implicate phosphatidylinositol 3-kinase in CD86-CD28 mediated co-stimulation. *Immunity* 3, 417-426.
10. Raab, M, da Silva AJ, Findell PR and **Rudd CE** (1997) Regulation of Vav-SLP-76 Binding by ZAP-70 and Its Relevance to TCRz/CD3 Induction of Interleukin 2. *Immunity* 6, 1-11.
11. **Rudd, C.E.** (1999) Adaptors and Molecular Scaffolds in Immune-Cell Signaling. *Cell* 96, 5-8.
12. Griffiths, E.K., Krawczyk, C., Kong, Y-Y., Raab, M., Hyduk, S.J., Bouchard, D., Chan, V.S., Kozieradski, I., Oliveira-dos-Santos, S., Wakeham, A., Mak, T.W., Ohashi, P.S., Cybulski, M.I., **Rudd, C.E.** and Penninger, J.M. (2001) Positive regulation of T-cell activation and integrin adhesion by the adapter Fyb/Slap. *Science* 293, 2260-2263.
13. Raab, M, Pfister, S. and **Rudd, C.E.** (2001) CD28 Signaling via SLP-76/VAV Adaptors: Regulation of cytokine transcription independent of TcR ligation. *Immunity*, 15:921-33.
14. Wang, H., Moon, E.-Y., Azouz, A., Wu, X., Smith, A., Schneider, H., Hogg, N., and **Rudd, C. E.** (2003) T-cell adaptor SKAP-55 (Scap-1) regulates integrin mediated adhesion and conjugate formation between T-cells and antigen-presenting cells. *Nat. Immunol* 4, 366-374.\
15. **Rudd, C.E** and Schneider, H. (2003) CD28, ICOS and CTLA-4 Co-signaling Mechanisms in T-cells. *Nat. Immunol.*, 3, 544-56.
16. **Rudd, CE** (2006) Disabled receptor signaling and new primary immunodeficiency disorders. *N Engl J Med.* 354, 1874-7.
17. Schneider H, Downey J, Smith A, Zinselmeyer BH, Rush C, Brewer JM, Wei B, Hogg N, Garside P, **Rudd CE**.

Principal Investigator/Program Director (Last, first, middle):

- ! (2006) Reversal of the TCR stop signal by CTLA-4. *Science*. 313, 1972-5. **Editors Choice:** Science 2006; **Accompanying Commentary**, Tomas Mustelin (2006) Restless T-cells sniff and go. *Science* 313, 1902-1903; **Editors Choice:** Lucy Bird, Stop-go signals for T-cells. *Nature Reviews Immunology* 6, 10 (October 2006) doi:10.1038/nri1952; **Editors Choice:** Nicole LeBrasseur (2006) T cells told to keep rolling. *J. Cell Biol.* 2006 174. 7909a.
18. **Rudd CE.** Cell cycle 'check points' T cell anergy. (2006) *Nat Immunol.* 7,1130-2.
 19. Valk E, Leung R, Kang H, Kaneko K, **Rudd CE**, Schneider H. (2006) T Cell receptor-interacting molecule acts as a chaperone to modulate surface expression of the CTLA-4 co-receptor. *Immunity*, 25, 807-21.
 20. **Rudd, CE.** (2008) The reverse stop-signal model for CTLA4 function. *Nat. Rev. Immunol.* 8, 153-160.
 21. Wang, H., Wei, B. and **Rudd, C.E.** (2009). SLP-76-ADAP adaptor module regulates LFA-1 mediated co-stimulation and T-cell motility. *Proc. Natl Acad. Sci. USA*, 106, 12436-41.
 22. Raab, M., Smith, X., Wang, H., Lu, Y., Wu, Y., Strebhardt, K., Ladbury, J.E. and **Rudd, C.E.** (2010) T cell receptor "Inside-Out" pathway via signaling module SKAP1-RapL regulates T cell motility and interactions in lymph nodes. *Immunity* 32, 541-56. **Editors Choice**, Nancy R. Gough (2010) Signal to slow down. *Science (Signal)* 3, p.ec.135.
 23. Purbhoo, M.A, Liu, H., Oddos, S. , Owen, D.M., Neil, M.A.A.4, Pigeon, S. French, P.M., **Rudd, C.E.** and Davis, D.M. (2010) Dynamics of sub-synaptic vesicles and surface microclusters at the immunological synapse. *Science Signal.* 3, 121, ra36 (2010). **Perspective on article:**, Billadeau, D.D. (2010) T cell activation at the immunological synapse vesicles emerge for LATer signaling. *Sci. Signal.* 3, 121 pe16.
 24. Liu, H., Purbhoo, MA, Davis, DM., **Rudd, CE.** (2010) SH2 domain containing leukocyte phosphoprotein of 76 kDa (SLP-76) feedback regulation of ZAP-70 micro-clustering, *Proc. Natl. Acad. Sci. USA.* 107, 10166-71.
 25. **Pillar Article:** Rudd CE, Trevillyan JM, Dasgupta JD, Wong LL, Schlossman SF. (2010) Pillars article: the CD4 receptor is complexed in detergent lysates to a protein-tyrosine kinase (pp58) from human T lymphocytes. 1988. *J Immunol.* 185, 2645-9. **Accompanying cover article:** Multiple roles of CD4 and CD8 in T cell activation. Koretzky GA. (2010) *J Immunol.* 185, 2643-4

Samples of Recent Invited Lectures (since 2007):

Co-chair, BSI-AAI Special Symposium, 94th Annual Meeting of the AAI (May 18-22, 2007, Miami).

Invited Speaker at the 4th FASEB meeting on Signal Transduction in the Immune System (June, 2007).

Invited Symposium Speaker, 4th International Leukocyte Signal Transduction Workshop: Clinical implications of signaling pathways (Rhodes, Greece, June 3-8, 2007)

Invited Symposium Speaker at 13th International Congress of Immunology (Rio de Janeiro, Brazil, August 2007) (*keynote*).

Invited Symposium Speaker at Chinese Congress of Immunology (Taiwan, September 2007) (*keynote*).

Invited Speaker at European School of Haematology Conference on "Translational research in transplantation. Integrating immunity: from genomics to cell therapy" (Leiden, The Netherlands Nov. 23-25, 2007) (*keynote*).

Invited speaker, NIH Twinbrooke II Seminar Series (Washington, May 6, 2008)

Invited Symposium Speaker at FIMSA 2008 Congress (Taiwan, October 2008) (*keynote*).

Invited Speaker, Chinese Academy of Sciences, Beijing, China (October, 2008).

Chair, BSI-AAI Special Symposium, British Society for Immunology Congress (Glasgow, 2008).

Chair, Co-stimulation Symposium, British Society for Immunology Congress (Glasgow, 2008).

Invited Symposium Speaker at 5th International Leukocyte Signal Transduction Workshop: (San Torini, Greece, June, 2009).

Invited Symposium Speaker at 17th European Congress of Immunology (Berlin, September, 2009) (*keynote*).

Invited Symposium Speaker at EMBO meeting (September, 2009).

The Invited Keynote Speaker at the Chinese Society for Immunology 'Symposium on Transplantation and Immunity' (March 26-28, 2010 in Shanghai, China) (*keynote*).

Invited Symposium Speaker, 14th International Congress of Immunology (ICI) (Kyoto, Japan, 2010).

Invited speaker, Yale-Cambridge Research Collaboration (Trinity Hall, University of Cambridge, September 12-14, 2010).

Symposium Speaker at Keystone Symposium, "Cancer Control by Tumor Suppressors and Immune Effectors" (Santa Fe, NM) (Feb, 2011).

Symposium Speaker at Keystone Symposium, "Dendritic Cells and the Initiation of Adaptive Immunity" (Santa Fe, NM) (Feb, 2011).

Invited speaker, 6th FASEB meeting on Signal Transduction in the Immune System (June, 2011).

Invited lectures at universities and Institutes (approx. 4-5 /year)