

## Curriculum Vitae

Michael L. Dustin, Ph.D.

Professor, Nuffield Department of Orthopedics, Rheumatology and Musculoskeletal Sciences,  
University of Oxford

Director of Research, Kennedy Institute of Rheumatology  
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United Kingdom

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Website: <https://www.kennedy.ox.ac.uk/team/michael-dustin>

### +Training

Year	Degree	Field	Institution
1980	NYS Regents		Poughkeepsie High School
1984	B.A.	Biology with Honors	Boston University Lab of Scott W. Peterson, Ph.D.
1990	Ph.D.	Cell & Dev. Biology	Harvard University Lab of Timothy A. Springer, Ph.D.
1990-1993	Post-doc	Cell Biology	Washington University in St. Louis Lab of Stuart Kornfeld, M.D.

### Academic Appointments

1993-1999	Assistant Professor	Pathology	Washington University in St. Louis
1999-2000	Associate Professor (tenure)	Pathology	Washington University in St. Louis
2001-2006	Associate Professor (tenure)	Pathology	New York University School of Medicine
2006-2013	Professor (tenure)	Pathology	New York University School of Medicine
2013-2018	Res. Professor (part time)	Pathology	New York University School of Medicine
2013-present	Professor (permanent)	Rheumatology	University of Oxford, UK

### Awards and Honors

1983	Phi Beta Kappa
1984	Shields Warren Award, Boston University
1986	Ryan Fellowship, Harvard University
1990	Jane Coffin Childs Memorial Fund Post-Doctoral Fellowship
1997	Englicheff Award, Arthritis Foundation
2000	Presidential Early Career Award in Science and Engineering
2000	Highly Cited Researcher in Immunology. Institute for Scientific Information.
2001	Keynote Speaker, FASEB Autoimmunity Conference.
2001	Irene Diamond Professorship in Immunology
2004	Special presentation, Workshop on CD1d and NKT cells, Heron Island Australia.

- 2004 Riken Collaboration Grant, Riken Institute for Allergy and Immunology, Japan.
- 2005 Keynote Speaker, University of Texas Immunology Retreat.
- 2006 Keynote Speaker, "Imaging the immune synapse" Paris, France.
- 2006 Keynote Speaker, "Zoo meeting on cellular interactions" Amsterdam, Netherlands.
- 2006 Keynote Speaker, Harvard Medical School Immunology Program Retreat.
- 2007 Keynote Speaker, Biology in Motion, Evian-Les-Bains, France.
- 2007 Merit Award, NIH, NIAID. R37-AI43542-10.
- 2008 Speaker at Symposium to Celebrate Funding of World Premier Institute and Immunology Frontier Research Center (iFREC). Osaka, Japan.
- 2009 Speaker in Nobel Conference on Immune and Neural Synapses, Stockholm, Sweden.
- 2010 Fellow, American Association for the Advancement of Science, Washington DC.
- 2010 National Institutes of Health Director's Lecture, Bethesda, MD.
- 2010 Muriel G. and George W. Singer Professor of Molecular Immunology
- 2011 Keynote Speaker, Workshop on Imaging, Interpretation and Modeling in Modern Immunology, Banff International Research Station, Alberta, Canada.
- 2011 Mathilda and Terence Kennedy Visiting Professors (with Lynn Dustin), Kennedy Institute, University of Oxford, United Kingdom.
- 2012 DART/NYU Faculty Biotechnology Award
- 2012 Benacerraf Lecture, Harvard Medical School, Boston, MA.
- 2013 Marsh Lecture in Molecular Medicine, Feinstein Institute, Manhasset, NY.
- 2013 Wellcome Trust Principal Research Fellow
- 2014 Jonathan Boulter Memorial Lecture, University of Cardiff, Cardiff, UK
- 2014 Keynote Speaker at Italian and Swiss Immunological Society Imaging Workshop, Milan.
- 2015 Speaker in Nobel Conference on Adaptive Immunity, Stockholm, Sweden.
- 2015 Albrecht Hasinger Lecture, Leibniz Institute, Berlin, Germany
- 2016 Keynote lecture at Frontiers in BioImaging, Royal Society of Microscopy, London, UK
- 2016 John Humphry Lecture, Imperial College London, Hammersmith Hospital, UK
- 2017 Eijkman Lecture, University Medical Center Utrecht, Netherlands.
- 2017 Elected, European Molecular Biology Organization, Heidelberg, Germany
- 2017 Keynote lecture- Dutch Society of Immunology, Lunteren, Netherlands
- 2020 Keynote lecture- German Society for Cytometry, On-line.
- 2021 Poppelsdorfer Schlossgespräche- Students of University of Bonn, On-line
- 2021 Elected, National Academy of Sciences, Washington, DC, USA.

### **Advisory Boards**

- 2010-2015 Autophagy in the Immune System, AECOM, Bronx, USA- F. Macian-Juan.
- 2012-2016 Information flow and organization at the membrane, Marseille, FRANCE-T. Lecuit
- 2014-2017 Manchester Collaborative Centre for Inflammation Research, UK-T. Hussell
- 2016- Adaptimmune, Philadelphia, USA
- 2020- CIBSS - Centre for Integrative Biological Signalling Studies, Freiberg.
- 2020- Singula Bio, Oxford UK.

## Major Committee Assignments

2000-2004, 2009-2014	NIH ALY/CMIA study section member.
2003-date	Dana Foundation Research Grant Review Committee.
2004-date	Cancer Research Institute Post-doctoral Fellowship Committee
2007-2011	NYUSOM Tenure and Promotions Committee
2011-2014	Institutional Animal Care and Use Committee, NYU
2013-2014	Head of Immunology, Kennedy Institute of Rheumatology
2013-2017	Chair, Old Road Campus Flow Cytometry User Group
2014-date	Director of Research, Kennedy Institute of Rheumatology
2019-date	Recognition of Distinction Committee (Professor), Medical Science Division

## Peer Review of Grant Applications and Workshops

2000	NIH HLBP P01 review committee.
2001	NIH ZAI1-NN-I-M 1 panel member; NIH NCI Review of the Experimental Immunology Branch.
2002	NIH P01 phone review.
2003	NIH ZAI1 PTM-I (J3) phone review; NSF/NIH Nanomedicine Roadmap Initiative Workshop Session Leader; Juvenile Diabetes Foundation ad hoc mail review.
2004	NIH TTT, TME and III study section ad hoc phone reviews; NIAID Board of Scientific Councillors ad hoc member; NIH ZDK1 GRB-B (J1) phone review; UK Medical Research Council ad hoc mail review.
2005	NIH ZRG1 IMM-E phone review; NIH TTT study section ad hoc phone review; UK Medical Research Council ad hoc review.
2006	NIH ZAI1 PA-1 (S2) phone review; NIH ZRG IMM-J phone review; NIH Cobre review committee meeting; NIH Roadmap Nanamedicine Development Center Round 2 review committee member; NIH TTT and ICI study section ad hoc phone reviews; Wellcome Trust UK interview and ad hoc mail review; Cancer Research UK Site visit committee.
2007	NIH ZRG1 IMM B; III Study Section ad hoc phone review.
2008	NIH Graduate Diversity Fellowship AED reviewer; ZAI1-ELB-1-M1 PO-1 reviewer; NIH Director's New Innovator Awards reviewer.
2009	NIH reviews for S10 Flow Cytometry grants, Challenge Grants and Administrative supplements. Member Cell and Molecule Biology A Study Section.
2010-2013	Member Cell and Molecular Immunology A Study Section.
2011	NIH Director's Innovation Award phase II committee; NCI RFA CA 11-005 "Advanced In Vivo Imaging to Understand Cancer Systems"
2012	NIH Director's Innovation Award phase II committee; NIAID ZAI1 MFH-I (M1) 1 Nonhuman Primate Islet/Kidney Transplantation Tolerance (U01, U19); UK MRC Career Award Reviewer.
2013	NIH National Eye Institute Board of Scientific Councilors review of Lab of Immunology.

2014	NIH National Institute of Heart, Lung and Blood, Board of Scientific Councilors review; Ad Hoc reviewing for Wellcome Trust and Israeli Science Foundation.
2015	Pasteur Institute Annual Call Evaluation; Ad Hoc Reviews for European Research Council and Medical Research Council of UK, Interview Panel Member for Wellcome Trust Fellowships and Investigator Grants.
2016	Pasteur Institute Annual Call Evaluation; Ad Hoc Reviews for ERC, Israeli Science Foundation.
2017	Pasteur Institute Annual Call Evaluation; Ad Hoc Reviews for ERC, MRC, Wellcome Trust, French National Research Agency, Susan G. Komen Cancer Research Grants, NIH NIDA Drug Addition and HIV treatment RFA.
2019	Pasteur Institute Department of Immunology 5 year review.
2020	European Research Council Starter Grants, Agence Nationale de la Recherche 2020 Call, UKRI multiple evaluations, MRC strategic review.

### **Memberships, Offices, and Committee Assignments in Professional Societies**

1993-date	American Society of Cell Biology
1998-date	American Association of Immunologists
2005	Organizer- HHMI meeting on Imaging in the Immune System
2009	Co-organizer- EMBO Symposium on Imaging the Immune Response
2008	Co-organizer- Immunoreceptors FASEB Summer Research Conference
2010	Organizer- Immunoreceptors FASEB Summer Research Conference
2012	Organizer (with Ben Ovrin) NYSBC Workshop on Advanced Microscopy (Keynote speaker: Eric Betzig)
2013	Organizer- Symposium in Honor of Timothy A. Springer, HMS
2018	Co-organizer- Signaling in the Immune System, EMBO, Siena, Italy
2021	Co-organizer- Signaling in the Immune System, EMBO, Siena, Italy
2021-date	National Academy of Sciences, Washington, DC USA.

### **Editorial Positions**

Contributor:	
2003-date	Faculty of 1000 ( <a href="http://www.facultyof1000.com/">http://www.facultyof1000.com/</a> )
Editor board:	
2000-2004	Journal of Immunology
2002-date	Immunology
2005-date	Immunity
2006-date	Journal of Experimental Medicine
2006-date	Journal of Clinical Investigation
2011-date	Frontiers in Immunology
2013-date	European Journal of Immunology
2014-date	Journal of Biological Chemistry
2014-2017	Biophysical Journal

2014-date           Journal of Cell Science  
2016-date           eLife  
2018-date           Life Science Alliance  
2019-date           Faseb Bioadvances

Ad Hoc reviewer:

1993-               Journal of Immunology  
1997-               Immunity  
1998-               Science  
1999-               Nature  
1999-               Journal of Cell Biology  
1999-               Blood  
1999-               Biophysical Journal  
2000-               Nature Immunology  
2000-               Cell  
2002-               Molecular Cell  
2002-               Journal of Clinical Investigation  
2002-               Journal of Clinical Immunology  
2002-               Journal of Leukocyte Biology  
2002-               Immunology  
2002-               Langmuir  
2002-               Journal of Experimental Medicine  
2002-               Proceedings of the National Academy of Sciences, USA  
2003-               American Journal of Pathology  
2003-               Experimental Cell Research  
2003-               Developmental Cell  
2003-               Journal of Biomedical Optics  
2003-               Public Library of Science (PLOS)- Biology, One, Pathogens...  
2003-               Advanced Functional Materials  
2004-               Journal of Nanoscience and Nanotechnology  
2010-               Frontiers in Bioscience- Immunology  
2010-               Nature Communications  
2012-               Cell Reports  
2013-               ACS-Nanoscience  
2013-               Nanoletters  
2014-               eLife  
2018-               Life Science Alliance

**Major Administrative Responsibilities**

2001-2013           Director, NYU Cancer Institute Flow Cytometry Facility  
2006-2013           Coordinator, Program in Molecular Pathogenesis, Skirball Inst.  
2006-2014           Co-director, NYU Cancer Center Immunology Program.  
2009-2013           Chair of Advisory Committee, NYUSOM Imaging Core Facility  
2009-2014           Director, Nanomedicine Development Center for Mechanobiology.  
2009-2012           NYUSOM Promotions and Tenure Committee  
2012-2013           Institutional Care and Use Committee, NYU SOM

2013-2014	Head of Immunology, Kennedy Institute of Rheumatology
2014-2020	Academic Advisor, KIR Cytometry Small Research Facility.
2014-2017	Director of Research, Kennedy Institute of Rheumatology
2016-	Management Committee, NDORMS, University of Oxford
2017-	Director of Basic Research, Kennedy Institute of Rheumatology
2017-	Executive Committee, Kennedy Institute of Rheumatology
2017-	Career Development Programme, Kennedy Institute of Rheumatology
2017-	Cell Dynamics Platform, Kennedy Institute of Rheumatology
2019-	Oxford Director, NIH-Oxford-Cambridge Scholars Program

### Teaching Experience

1993-2003	Immunology, Wash U/NYU	Graduate	Lecturer	6 hrs
1993-2003	Cell biology, Wash U/NYU	Graduate	Lecturer	4 hrs
2004	Advanced Immunol, AAI	Graduate	Lecturer	4 hrs
2005	Physiology, MBL	Graduate	Lecturer	4 hrs
2005-2013	Immunology, NYU	Graduate	Director	30 hrs.

### Mentoring of Graduate Students, Residents, Post-Doctoral Fellows in Research

#### Graduate students (14 completed- 7 active):

<u>Name</u>	<u>Prior degree</u>	<u>Years in lab</u>	<u>Current funding/position</u>
Shannon Bromley	Haverford College	1995-2001	Associate Professor, HMS
Verda Kaye Thomas	U. Maryland	2001-2008	Imaging director, U.Rochester
Gabriele Campi	U. Milano	2002-2006	TTFactor Srl, Milan, Italy
Julie Huang	Taipei University	2002-2007	Excerpta Medica, Netherlands
Janelle Waite	SUNY Stony Brook	2004-2009	Scientist, Regeneron, USA
Gaia Vasiliver	Tel Aviv University	2005-2009	Emory University, Atlanta, USA
Santosh Vardhana	U. Pennsylvania	2006-2009	Research Fellow, MSKCC
Gabriel Victora	University of Sao Paulo	2007-2011	Asst. Prof., Rockefeller U, USA
Cassandra Williams	Cal. State Univ., Northridge	2008-2013	Forensic Scientist, NYC, USA
Phillip Stewart-Hutchinson	University of Illinois	2009-2014	Post-doc, NYUSOM
Jiqiang Lin	Peking University	2010-2015	NYU Law School
Durga Bhavani Dandamudi	Nagarjuna University	2012-2018	Abbvie, Chicago, IL
James Muller	University of Maryland	2012-2018	Imaging Director, MSKCC
Joshua Cox	Southampton	2014-withdrew	IITM
Philippos Demetriou	Imperial College	2014-2018	Kennedy Trust Prize
Christopher Peel	New York University	2014-2018†	Kennedy Trust Prize
Liliana Cifuentes (MRes)	Bagota, Columbia	2016-2021	BMS Clinical Fellow
Alexander Morch	U. Oxford	2019-	IITM (with S. Davis)
Kristina Correa (MRes)	Stanford U	2020-	Rhodes/Statistics
Ashwin Jainarayanan	U. Oxford	2020-	Interdisciplinary DTC
Hannah Dada	U. Oxford	2020-	NIH OXCAM
Sooraj Achar	U. Oxford	2020-	NIH OXCAM
Daniel Beckers	U. Oxford	2020-	KTRR/RACE
Olga Margaritaki	U. Oxford	2020-	KTRR/Diamond

**Graduate student co-supervisions (Oxford):**

<u>Name</u>	<u>Supervisor</u>	<u>Years supervised</u>	<u>Current funding/position</u>
Sean Giblin	Kim Midwood	2014-2018	
Andrew Maclean	Tal Arnon	2016-2020	
Gabriela Pirgova	Tal Arnon	2017-	
Lion Uhl	Audrey Gerard	2017-	
Valentina Gifford	Yoshi Itoh	2018-2020	
Veronika Pfannenstill	Marco Fritzsche	2019-	
Yavuz Furkan Yazıcıoğlu	Alexander Clarke	2020-	

**Post-doctoral fellows (37):**

<u>Name</u>	<u>Ph.D.</u>	<u>Years in lab</u>	<u>Current funding/position</u>
Ruth Knorr, Ph.D.	University of Tuebingen	1994-1997	U. Hanover, Germany
Naishadh Desai, Ph.D.	Indian Institute of Science	1995-2000	Patent Agent, Biorad
Kristina Somersalo, Ph.D.	University of Helsinki	1999-2002	Scientist, Helsinki, Finland
Tasha Sims, Ph.D.	University of Alberta	2000-2006	Regeneron, USA
Suyi Tseng, Ph.D.	Johns Hopkins U.	2002-2005	Bayer Healthcare, USA
Tom Cameron, Ph.D.	MIT	2002-2008	Biogen-Idec, Boston, MA
Rajat Varma, Ph.D.	NCBS, Bangalor, India	2002-2007	Xencor, USA
Guy Shakhbar, Ph.D.	Tel Aviv University	2002-2006	Co-founder at Mapkins
Jiyun Kim, M.D., Ph.D.	SUNY Stony Brook University	2004-2011	Assoc. Prof., St John's
Peter Velazquez, Ph.D.	UCLA	2005-2009	Atara Biotherapeutics
Maria Grazia Ruocco, Ph.D.	U.Vienna/UCSD	2005-2011	Scientist, Joanneum
A. Zanin-Zhorov, PhD	Weizmann Inst	2006-2011	VP, Kadmon Pharma, NYC
David Fooksman, Ph.D.	Johns Hopkins U.	2007-2013	Asst. Prof. AECOM
Jan Liese, M.D., Ph.D.	U. Freiberg	2008-2011	Research Phys. U.
Tübingen			
Kaushik Choudhuri, MD/PhD	University of Oxford	2008-2015	Asst Prof., U. Michigan
David Blair, PhD	U.Conn	2008-2013	Scientist, Boehringer
Ingelheim			
Catarina Sacristan, PhD	Tufts Univ Sch of Med	2009-2013	Editor-in-chief, Trends
Immunol			
Anastasia Liapis, PhD	Mount Sinai	2009-2013	TBWA Worldhealth
Sudha Kumari, PhD	NCBS Bangalor, India	2009-2013	PDRA, MIT
Viveka Mayya, PhD	U.Conn	2009-2019	CRI/WellTrurst/ERC AdG
Gaetan Barbet, PhD	Bichat Med Col, Paris	2010-2011	Instructor, Mount Sinai
Helene Beuneu, PhD	Pasteur Institute, Paris	2010-2014	Scientist, Institute Pasteur
David Depoil, Ph.D.	Institut Claude de Preval	2010-2016	Scientist, Immunocore, UK
Jung Eun Jang, Ph.D.	Einstein College of Medicine	2012-2016	Scientist, Genentech
Hila Novak, Ph.D.	Tel Aviv University	2012-2017	Tel Aviv Univ, Israel
Enas Abu Shaw	Technion, Israel	2014-2020	HFSP/UCB Fellowship
David Saliba	Malta	2015-2017	Asst Prof, U. Malta
James Felce	Oxford	2016-2020	Oni (Group leader)

Alessio Lanna	UCL	2016-2020	Step Back (Founder)
Pablo Cespedes	Chile	2016-	EMBO LTF/BMS PDRA
Liliana Cifuentes	Columbia	2016-	Celgene Clinical PDRA
Stefan Balint	Slovakia and Spain	2017-	ERC AdG PDRA
Ewaldus Compeer	U. Utrecht, Netherlands	2017-	ERC AdG PDRA
Shivan Sivakumar, PhD	CRUK, Cambridge	2017-	NHR PDRA
Audun Kvalvaag, PhD	Univ Oslo, Norway	2018-	Norwegian Science Found
Jesusa Capera Aragonés, PhD	University Barcelona	2020-	Cue Biopharma PDRA
Alexander Liethner, PhD	IST, Viena, Austria	2020-	Schrödinger Fellowship
Oskar Staufer, PhD	U Heidelberg	2021-	Boehringer Ingelheim PDRA

**Thesis committees, co-advisor, transfer, confirmation, DPhil viva assessments:**

Arash Grakoui	Lab of Paul Allen, Ph.D.	1998-2000	Prof. Emory U.
Julia Tsai	Lab of Wenbiao Gan, Ph.D.	2001-2004	Clin VP, Marinus
Mytheli Koneru	Lab of Alan Frey, Ph.D.	2001-2004	Med Dir, Eli Lilly
David Schaer	Lab of Alan Frey, Ph.D.	2001-2004	Scientist, Eli Lilly
Dimitrios Davilos	Lab of Wenbiao Gan, Ph.D.	2001-2005	Asst Prof, Clev Clin
Jasmin Dynek	Lab of Susan Smith, Ph.D.	2001-2005	Med VP, Chemeleon
Saba Alzabin	Lab of Steven Burakoff, M.D.	2003-2006	Clin Advis, Nabta
Minoti Hiremath	Lab of Pamela Cowin, Ph.D.	2004-2007	Assoc Dir, Atara
Kira Zavilevich	Lab of Nina Bhardwaj, M.D., Ph.D.	2005-2007	Physician
Yi Ding	Lab of Juan Lafaille, Ph.D.	2003-2008	Physician
Serre-Yu Wong	Lab of David Roth, M.D., Ph.D.	2005-2009	PDRA, NYUSOM
Alice Yewdall	Lab of Nina Bhardwaj, M.D., Ph.D.	2005-2009	Consult, Derm101
Bridget Teissedre	Lab of Pam Cowin, Ph.D.	2005-2008	Comms, Novartis
Dusan Bogunovic	Lab of Nina Bhardwaj, M.D., Ph.D.	2006-2009	Asst Prof, MSSM
Monica Leung	Lab of Juan Lafaille, Ph.D.	2006-2010	Scientist, Celgene
Rebecca Wendland	Lab of David Roth, MD, PhD.	2006-2009	PDRA, Cornell Med
Jonathan Feig	Lab of Ed Fisher, M.D.	2007-2009	Cardiologist
Mary Collins	Lab of Adrian Erlebacher, Ph.D.	2008-2010	Regulatory affairs
Jon Mallen St Clair	Lab of Dafna Bar-Sagi, Ph.D.	2008-2009	Resident, UCLA
Francie Mercer	Lab of Derya Unutmaz, MD, PhD	2008-2013	Asst Prof, Cal State
Tyler Bold	Lab of Joel Ernst, MD	2008-2011	Clin Fellow, HMS
Veronica Lubkov	Lab of Dafna Bar-Sagi, PhD	2008-2013	PDRA, Duke U.
Edwin Vazquez-Cintron	Lab of Alan Frey, PhD	2008-2011	Contractor, USDDef
Joseph Wynne	Lab of Mark Philips, MD	2008-2011	MSTP
Huizhong Xiong	Lab of Juan Lafaille, PhD	2009-2012	PDRA, MSKCC
Yelina Alvarez	Lab of Catarina Hoie, PhD	2009-2013	MSTP
Willy Ramos	Lab of Susan Schwab, PhD	2009-2014	PDRA, NYUSOM
Jonathan Weiss	Lab of Juan Lafaille, PhD	2010-2013	Scientist, Kadmon
Ashley Dumont	Lab of Victor Torres, Ph.D.	2011-2013	PDRA, NWU
Melissa Fernandez	Lab of Nina Bhardwaj, Ph.D.	2011-2014	PDRA, USF
Sean Giblin	Lab of Kim Midwood, PhD	2013-2018	
Johannes Breuning	Lab of Marion Brown, PhD	2013-2016	PDRA
Huw Colin York	Lab of Christian Eggeling, PhD	2014-2016	PDRA, KIR



Anita Gola	Lab of Adrian Hill, MD	2015-
Laura Makin	Lab of Eva Gluenz, PhD	2015-2018
Rory Nolan	Lab of Sergi Padilla Parra, PhD	2015-2018
Falk Schneider	Lab of Christian Eggeling, PhD	2016
Anna Montgomery	DPhil viva, Lab of Patrick Venables, PhD	2016
Meike Aßmann	DPhil viva, Lab of Simon Davis, PhD	2016
Felix Richter	Lab of Katja Simon, PhD	2017
Johannes Pettmann	Lab of Simon Davis, PhD	2018
Athena Cavounidis	Lab of Holm Uhlig, MD, PhD	2018
Helena Coker	DPhil viva, Lab of Mark Wallace	2018
Philipp Kruger	Lab of Omer Dushek, U. Oxford UK	2018
Caitlin O'Brien-Ball	Lab of Simon Davis, PhD	2019
Charles Coomer	Lab of Sergi Padilla, PhD (E. Compeer)	2019
Ioanna Rota	DPhil viva, Lab of Georg Hollander, MD	2019
Kento Kawai	DPhil viva, Lab of Fadi Issa, DPhil FRCS	2020
Jesús Farfan	DPhil viva, Lab of Omer Dushek	2021

**Outside Examiner/Committee member:**

Timothy Tolentino	Lab of Cheng Zhu, Georgia Tech	1999-2007
Connie Krawczyk	Lab of Josef Penninger, U. Toronto	2001
Ning Jenny Jiang	Lab of Cheng Zhu, Georgia Tech	2003-2005
Jun Huang	Lab of Cheng Zhu, Georgia Tech	2005-2008
Allison Beal	Lab of Yuri Sykulev, TJU	2006-2009
Roberto Bonasio	Lab of Ulrich von Andrian, HMS	2006
Ben Dubin-Thaler	Lab of Michael Sheetz, Columbia U.	2007
Keyue Shen	Lab of Lance Kam, Columbia U.	2009
Emily Mace	Lab of Fumio Takei, UBC, Canada	2010-2013
Luis Santos	Lab of Michael Sheetz, Columbia U.	2011-2014
Amandine Crequer	Lab of Jean Laurant Casanova, Rockefeller	2012
Faruk Sacirbegovic	Lab of Sarah Russell, U Melbourne, Aus	2013
Hélène Moreau	Lab of Philippe Bousso, Institut Pasteur	2013
Elizabeth Natanski	Lab of Pavel Tolar, Mill Hill, UCL	2013
Kristian Ganzinger	Lab of David Klenerman, Cambridge	2014
Efstahios Stamatziades	Lab of Frederic Geissmann, KCL	2014
Dessislava Malinova	Lab of Adrian Thrasher, UCL	2014
Goran Bajic	Lab of Gregers Andersen, Aarhus U.	2015
Christopher Bricogne	Lab of Mary Collins, UCL	2015
Marian Burbage	Lab of Facundo Batista, UCL/Crick	2015
Jessica Dobbins	Lab of Kai Wucherpfennig, DFCI/HMS	2016
Roel Hammink	Lab of A. Rowan and K. Blank, Nijmegen	2016
Daniela Ortiz Franyuti	Lab of Viola Vogel, ETH, Zurich	2017
Fatouma Samassa	Lab of Philippe Sansonetti, Institute Pasteur	2018
Victoria Junghans	Lab of Peter Jonsson, U. Lund, Sweden	2019
Leon de Boer	Lab of Victor Tybulewicz, Crick Inst.	2021

**Faculty mentor/line manager/Career Development reviews:**

Amy Reichlin, M.D., Ph.D.	Dept. of Pediatrics, Neonatology	2005-2009
Michelle Krogsgaard, Ph.D.	Dept. of Pathology	2006-2013
Iannis Aifantis, Ph.D.	Dept. of Pathology	2006-2013
Sergio Trombetta, Ph.D.	Dept of Pathology	2006-2013
Stefan Feske, MD, PhD	Dept. of Pathology	2008-2013
Susan Schwab, Ph.D.	Dept of Pathology	2008-2013
Zongdong Li, PhD	Dept of Medicine, Hem-Onc.	2010-2013
Ken Cadwell, Ph.D.	Dept of Microbiology	2011-2013
Sergei Koralov, Ph.D.	Dept of Pathology	2011-2013
Adam Mor, M.D., Ph.D.	Dept of Medicine	2012-2013
Catherine Diefenbach, M.D.	Dept of Medicine	2012-2013
Tal Arnon, PhD	NDORMS/Wellcome Trust Investigator	2014-
Jelena Bezbradica, PhD	NDORMS/KTRR SRF*	2016-
Audrey Gerard, PhD	NDORMS/KTRR SRF	2016-
Anjali Kusumbe, PhD	NDORMS/MRC CDF/KTRR SRF	2016-
Luke Jostins, Ph.D.	NDORMS/Wellcome Trust CDF*	2017-
Linda Troeberg, Ph.D.	NDORMS/ARUK CDF	2017-2018
Thibault Griseri, Ph.D.	NDORMS/ARUK CDF	2017-2020
Angus Wann, Ph.D.	NDORMS/ARUK/KTRR CDF	2018-
Han Lim, Ph.D.	NDORMS/ARUK/KTRR CDF	2018-2021
Marco Fritzsche, PhD	KTRR/RFI SRF	2020-

\*SRF = Senior research fellowship; CDF = career development fellowship

**Visiting Scientists:**

Cenk Sumen, B.A.	GRA, Stanford University	1998-2000
Facundo Batista, Ph.D.	Asst Prof, Cancer UK	2003
Tadashi Yokosuka, Ph.D.	PDRA, Riken, Japan	2004
Oren Milstein, B.A.	GRA, Weizmann Inst, Israel	2005-2006
Alison Beal, B.A.	GRA, TJU, Philadelphia	2005-2009
Cristina Mazzon, Ph.D.	PDRA, Milan, Italy	2006
David Schubert, Ph.D.	PDRA, HMS, Boston MA	2006
Iain Dunlop, Ph.D.	PDRA, U. Heidelberg, Germany	2006
Donfang Liu, PhD	PDRA, NIH	2007
Huan-Yuan Chen, Ph.D.	PDRA, UC Davis, CA	2007
Marek Cebacauer, Ph.D.	PDRA, London, UK	2007
Kaushik Choudhuri, Ph.D.	GRA, Oxford, UK	2007
Tal Ilani, PhD.	PDRA, Cornell University	2007
Simone Fonesca, PhD	PDRA, U. Montreal	2007-2008
Susan Bueno, PhD	PDRA, Pont. Univ. Cat. de Chile	2009, 2010
Chiara Beilin, B.A.	GRA, UCL, UK	2009, 2010
Alice Pollitt, B.A.	GRA, Birmingham, UK	2010
Sara Baratchi, Ph.D.	PDRA, Monash University, AU	2011
Fukun Guo, Ph.D.	Asst. Prof, U. Cincinnati, Ohio, US	2011
Pablo Céspedes Donoso	GRA, Pont. Univ. Cat. de Chile	2012

Daforgail Delcassian, B.S.	GRA, ICL, UK	2012, 2013
Jing Deng, Ph.D.	PDRA, NYUSOM/VA	2013-2015
Harriet Purvis, B.S.	GRA, Kings College London, UK	2014-2015
Maxime Dhainaut, B.S.	GRA, Free Brussels University, BE	2014-2015
Hsin Fang Chang	GRA, Rettig lab, Homberg, DE	2015
Carmen Gallo, PhD	PDRA, working with James Felce	2016
Stefan Balint, PhD	PDRA, U Manchester, Davis Lab	2016
Jerome Delon	Assoc Prof, Institut Cochin	2016
Guillaume Delagrange, B.S.	MS, Paris Descartes University	2017
Mariana Costa	Undergraduate, UCL, UK	2017
Dimitrios Karponis	FRS, ICL, UK	2017
Jennifer Luhr, M.S.	GRA, Erlangen, DL, Dudziak lab	2017
Vincent Bachelor	HSS, Melbourne, Australia	2017
Chiara Cassioli	GRA, U. Siena	2018
Enrique Eguado	Assoc Prof, University of Cadiz	2018
Charity Gee	MS, Technische Universität Berlin	2018-2019
Simone Brokamp	MS, LUMC, Utrecht, Netherlands	2018-2019
David Saliba	Asst. Prof. U Malta	2018-
Chirine Rafia	GRA, University of Nantes	2019

## Major Research Interests

1. Mechanisms of T cell activation through immunological synapse
2. Control of immune cell migration in vivo
3. Translation of immunological synapse to treat autoimmune disease and for cancer immunotherapy

## Grants Received

### Current

Agency	Title	Type & #	Period	Total Costs	Role	%
Kennedy Trust	Translation of the Immuno-logical synapse	PRF suppl.	2013-2022	£600,000	PI	5
Kennedy Trust	Cell Dynamics Platform	Infrastructure	2019-2026	£3.3M	PI	25
ERC	Analysis of T cell Tactical Arsenal for Cancer Killing (ATTACK)	ERC -2021-SyG_951329	2021-2027	€2.5M of €10M	PI3 of 4	40
ERC	Supramolecular attack particles for cancer immunotherapy (SMAPCAN)	H2020 PoC 963953	2021-2022	€150,000	PI	2
NIH	Enhancing Treg therapeutic efficacy in GVHD	2R01HL118979	2018-2022	\$100,000	Co-I	5

Completed

Agency	Title	Type & #	Period	Total/Direct Costs	Role	% Effort
ERC	Immunological synapse derived ectosomes in T cell effector function (SYNECT)	ERC-2014-AdG_670930	2015-2021	€2,100,000	PI	30
Wellcome Trust	In vivo microscopy system to probe microbiome link to inflammation	MUEG 202911/Z/16/Z	2016-2017	£284,088	PI	0 (OX)
Kennedy Trust	In vivo microscopy system to probe microbiome link to inflammation	Matching funds	2016-2017	£284,088	PI	0 (OX)
NIH	Requirement for sensitive...	R37 AI043542	1999-2018	\$3,107,377	PI	10
NIH	B helper function of synaptic T cell receptor	CHAVI-ID	2015-2018	\$70,000	Co-I	(NYU) 5 (Ox)
Wellcome Trust	Translation of the Immuno-logical synapse	PRF 100262Z/12/Z	2013-2020	£4,650,000	PI	55 (Ox)
NIH	Modeling spatial formation...	R01 GM076730	2005-2008	\$120,000	co-PI	0.45
Genetech	LFA-1, CRTAM and CD20	No number	2006-2008	\$118,000	PI	0.45
NIH	HIV Env-Induced Synapse	R21 AI071815	2007-2009	\$150,000	co-PI	0.45
NIH	Inverted TPLSM for host-...	S10 RR023704	2008-2009	\$500,000	PI	NA
NIH	Modulation of T Cell...	R21 EB008199	2007-2009	\$75,000	co-PI	0.45
NIH	Galectin-3 in Regulation of...	R01 AR056343	2010-2011	\$34,000	co-PI	0.3
NIH	Molecular assemblies...	R01 AI052812	2002-2012	\$572,544	co-PI	0.4
NIH	Physiological chemistry...	R01 AI044931	1999-2011	\$1,351,137	PI	0.9
NIH	Immune cell dynamics...	R01 AI075298	2009-2011	\$150,000	co-PI	0.45
NIH	Visualizing...Listeria...	P01 AI071195	2006-2011	\$875,000	PI, Proj.3	1.35
NIH	Role of oral and intestinal...	RC2AR058986	2009-2011	\$200,000	co-PI	0.3
NIH	Local radiation...	R01 CA113851	2007-2012	\$200,000	co-PI	0.4
NIH	Spatial coordination...	R01 AI088377	2010-2015	\$250,000	co-PI	0.4
NIH	Antigen Presentation...	P01AI045757	2008-2013	\$250,000	co-PI	0.4
NIH	PD-1 Function, Signaling...	P01 AI080192	2008-2013	\$800,000	Dir core C	0.7
NIH	Germinal Centers...	R01 AI072529	2006-2016	\$1,500,000	co-PI	1
NIH	NYU Cancer Inst Sup Grant	P30 CA016087	2008-2013	\$42,000	Prog. dir	0.4
NIH	Nanomedicine Dev. Center	PN2 EY016586	2005-2014	\$3,600,000 of \$15M total	Director /PI	7.5
NIH	Environmental control...	R01 AI055037	2004-2015	\$2,341,670	PI	7.5
Dana Found	Role of T cell-microglial cell	No number	2003-2006	\$150,000	PI	0.72
NIH	Quantitative studies ...	R01 GM064900	2002-2006	\$450,000	co-PI	2.4
Whitaker Foundation	Two dimensional affinity	Career Dev	1997-2000	\$450,000	PI	20

National Arthritis F. Monsanto	T cell stop and go signals Regulation of LFA-1	Career Dev Res Agreement	1997-1999 1995-1998	\$300,000 \$300,000	PI PI	20 20
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### Patents (Inventor or co-inventor):

- 1990 DNA sequences, recombinant DNA molecules and processes for producing lymphocyte function associated antigen-3. US Patent # 4,956,281
- 1991 Protein micelles. US Patent # 5,071,964
- 1993 Purification of LFA-3. US Patent # 5,190,859
- 1994 Intercellular adhesion molecules and their binding ligands. US Patent # 5,284,931
- 1995 R6-5-D6, an antibody which binds intercellular adhesion molecule-1. US Patent # 5,475,091
- 1996 Isolated nucleic acid molecule encoding ICAM-2. US Patent # 5,489,533
- 1996 Purified ICAM-2 and fragments thereof. US Patent # 5,512,660
- 1996 Antibodies to ICAM-1 and fragments thereof. US Patent # 5,565,550
- 1997 Nucleotide sequence encoding intercellular adhesion molecule-1 and fragments thereof. US Patent # 5,612,216
- 1998 Soluble fragments of intercellular adhesion molecule-1. US Patent # 5,831,036
- 2002 ICAM-1 derivatives with altered ability to bind LFA-1. US Patent # 6,358,510
- 2008 Micro-patterned stimulation of lymphocytes. Application filed 1/18/08
- 2009 Method of treating immunological disorders. Application filed 4/28/09
- 2012 Controlling regulatory T cell function. Application filed 9/13/12
- 2014 T cell receptor enriched microvesicles. Provisional application filed 2/6/14
- 2020 Methods and compositions for increasing the suppressive function of regulatory T-cells (Tregs). US Patent US10993959B2 (expires 2037-01-14)
- 2020 Proteinaceous Particles (SMAPs). UK Patent Application No. 2005892.1

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**Peer-reviewed original reserach** (18 First Author, 60 Corresponding/Co-corresponding, 216 Total):

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