

**Daniel M. Davis**

Date of birth: 2<sup>nd</sup> Aug 1970

**CAREER**

Jan 2013 - current	Director of Research & Professor of Immunology, Manchester Collaborative Centre for Inflammation Research, University of Manchester, UK.
Oct 2008 – Dec 2012	Head, Immunology Section (16 labs), Imperial College London, South Kensington Campus, UK
Oct 2005 - Present	Professor in Molecular Immunology, Imperial College London, South Kensington Campus, UK.
Oct 2002 – Sept 2005	Senior Lecturer, Division of Cell and Molecular Biology, Imperial College London, South Kensington Campus, UK.
Dec 1999 – Sept 2002	Lecturer, Department of Biology, Imperial College London, South Kensington Campus, UK.
Jan 1996 – Nov 1999	Postdoctoral Research Fellow, Dept. Molecular and Cell Biology Harvard University, Cambridge, MA 02138, USA
Sept 1992 - Dec 1995	PhD. Physics, CASE Award with EPSRC/ICI/Zeneca Strathclyde University, Glasgow, UK.
Sept 1989 - June 1992	First Class BSc. (Hons) Physics, University of Manchester, UK.
1982 - 1988	4 A-Levels: Physics (A), Chemistry (A), Maths (A), Further Maths (A). 9 O-Levels including Maths, English and German. Dame Alice Owen's School, Potters Bar, Herts, UK.

## AWARDS

- Aug 2012      **Elected a Fellow of The Society of Biology**
- June 2011     **Elected a Fellow of The Academy of Medical Sciences**
- April 2008    **Royal Society Wolfson Research Merit Award** – 5 year salary contribution
- May 2005     **The Lister Research Prize for Preventive Medicine** – A £150,000 research prize
- October 2002 **EMBO Young Investigator Award** - Includes 45,000 EURO for lab and additional funding for travel, invitation to EMBO events etc. Attended Lab Management Course in 2004.
- May 2002     **Merit Award for "Imaging the Construction of Immunological Synapses"** presented after plenary lecture at the XIIIth International Congress of Histocompatibility and Immunogenetics, Seattle, USA.
- September 2000      Winner of the **Oxford University Press/ Times Higher Education Supplement Science Writing Prize**. Prize was £2000 and Oxford English Dictionary. Essay published in the THES.
- 27-31 March 2000      One of six invited UK participants in a '**Workshop on Biotechnology and Genetic Engineering** for brilliant young British and German scientists', held in Bonn and Berlin.
- 8 March 2000      Selected as part of the '**Scientists for the New Century**' program by the Royal Institution, London to present a public lecture on my research entitled 'Natural Born Killers.' This lecture sold-out to over 500 people. Awarded **life membership of the Royal Institution, London**.
- 1997 - 2000      Postdoctoral **fellowship from The Irvington Institute** for Immunological Research, a charity based in New York.
- 1997 - 1999      Supervised two students' research projects - one won the **Hoopes Prize**, given to the 50 best theses throughout Harvard, and the other was placed in the finals of the **US National Westinghouse Competition** the top prize being \$40,000.
- Apr 1994        Joint winner of national **lecture competition at the Institute of Physics, London**. Prize was a trip to the International Conference of Physics Students held in St. Petersburg, Russia.
- Jan 1994        **Barber Trust travel award** from Institute of Physics to attend conference in LA.
- Aug 1993        **Daphne award** (£750) from Dame Alice Owen's school.

## PROFESSIONAL MEMBERSHIP

Academy of Medical Sciences (Elected Fellow in 2011)  
Institute of Biology (Elected Fellow in 2012)  
The Royal Institution (Awarded Life Membership in 2000)

The Institute of Physics (member since 1995 and elected CPhys in 2000)  
The American Association of Immunology (since Oct 2006)  
The American Society for Cell Biology (since 2005)  
The Biochemical Society (since 2004)  
The British Society of Immunology (since 1999)  
The British Association for the Advancement of Science (since 1999)  
The American Association for the Advancement of Science (since 1999)  
The British Biophysical Society (1999-2004)

## INVITED LECTURES

2<sup>nd</sup> Feb 2000 - AstraZeneca, Alderley Edge.  
3<sup>rd</sup> March 2000 – Public Lecture 'Natural Born Killers', The Royal Institution, London.  
5<sup>th</sup> April 2000 - The Babraham Institute, Cambridge.  
4<sup>th</sup> May 2000 - Wales regional group, British Society of Immunology, Cardiff.  
15<sup>th</sup> May 2000- Sir William Dunn School of Pathology, University of Oxford.  
16<sup>th</sup> May 2000 - Molecular Pharmacology and Molecular Genetics Series, Imperial College.  
5-8<sup>th</sup> September 2000 - XIth International Conference of Histochemistry and Cytochemistry, York.  
16<sup>th</sup> January 2001 - Department of Immunology, Hammersmith Hospital, London.  
19<sup>th</sup> February 2001 - Wright-Fleming Seminar, St. Mary's, London.  
22<sup>nd</sup> February 2001 - The Antibody Club, British Society of Immunology, London.  
26<sup>th</sup> April 2001 - MRC Laboratory for Molecular Cell Biology, University College London.  
1<sup>st</sup> May 2001 - Institute of Child Health, Great Ormond Street Hospital, London.  
26<sup>th</sup> July 2001 - International Congress for Immunology, Stockholm, (2 short contributed talks).  
20<sup>th</sup> September 2001 - Biophysical Chemistry 2001, London.  
29<sup>th</sup> October 2001 - National Heart and Lung Institute, London.  
9<sup>th</sup> November 2001 - 'Advances in Microscopy', Natural History Museum, London.  
4<sup>th</sup> March 2002 - Windeyer Institute, Royal Free & University College Medical School.  
6<sup>th</sup> March 2002 - The Cell Club, held at Imperial College, London.  
12<sup>th</sup> March 2002 - Department of Molecular & Cell Biology, Harvard University, USA.  
17-22<sup>nd</sup> March 2002 - Keystone Symposium: The molecular and cellular biology of leukocyte regulatory receptors, Lake Tahoe, USA (Short talk in plenary session).  
8<sup>th</sup> May 2002 - Medical Research Club, ICRF, London.  
17-22<sup>nd</sup> May 2002 - XIIIth International Congress of Histocompatibility and Immunogenetics, Seattle, USA (Plenary Session).  
31<sup>st</sup> May 2002 - Immunology Seminars, Addenbrooke Hospital, Cambridge University  
7<sup>th</sup> June 2002 - Department of Biological Sciences, Imperial College, London.  
10<sup>th</sup> June 2002 - Institute for Genetics, University of Cologne, Germany.  
25<sup>th</sup> June 2002 - Peter Gorer Department of Immunobiology, Guy's Hospital, London.  
2<sup>nd</sup> December 2002 - Karolinska Institute, Stockholm, Sweden.  
7<sup>th</sup> May 2003 – Division of Immunology, Western Infirmary, Glasgow University.  
12-13<sup>th</sup> May 2003 – Symposium on Fluorescence Microscopy, EMBL, Heidelberg, Germany.  
14-15<sup>th</sup> May 2003 – EMBO Young Investigators Conference, EMBL, Heidelberg, Germany.  
19<sup>th</sup> May 2003 – Hammersmith Hospital, Imperial College London.  
2<sup>nd</sup> June 2003 – Department of Pathology, Cambridge University.  
10<sup>th</sup> June 2003 – Kennedy Institute of Rheumatology, London.  
19<sup>th</sup> June 2003 – Oxford Brookes University, Oxford.  
14-17<sup>th</sup> July 2003 – Workshop on Biomolecular Machines for Cell-Cell Recognition, Lyon, France.  
10<sup>th</sup> October 2003 – John Squire Club, Medical School, University of Birmingham.  
14<sup>th</sup> October 2003 – Interdisciplinary Program for Cellular Regulation, University of Warwick.

27<sup>th</sup> October 2003 – Cancer Sciences Division, University of Southampton.  
 27<sup>th</sup> November 2003, EEM Congressi Workshop on Cytometry, Rome, Italy  
 2<sup>nd</sup>-5<sup>th</sup> December 2003 - British Society of Immunology Annual Congress, Harrogate, UK.  
 8-13<sup>th</sup> Januray 2004 – Keystone Symposium: Lymphocyte Activation and Signaling, Steamboat Springs, Colarodo, USA (Plenary Session, selected from abstracts submitted).  
 6<sup>th</sup> April 2004 – Imperial College Department of Biological Sciences Retreat  
 24-28 April 2004 – International Natural Killer Cell Congress, Amsterdam, Holland (Plenary Lecture and Session Chair)  
 8-11 May 2004 – European Federation of Immunogenetics Congress, Sofia, Bulgaria (Plenary Session)  
 18<sup>th</sup> May 2004 – Dunn School of Pathology, Oxford University  
 2<sup>nd</sup> June 2004 – Cancer Research UK, London Research Institute, Lincolns Inn Fields  
 23 June 2004 – London School of Hygiene and Tropical Medicine, London, UK.  
 6-8 July 2004 – MicroScience 2004, The Royal Microscopical Society Congress, London, UK.  
 18-22 July 2004 - BioScience 2004, Annual Congress of The Biochemical Society, Glasgow, UK.  
 9 November 2004 – Department of Trade and Industry Workshop, St Andrews, UK.  
 5 December 2004 – American Society of Cell Biology, Annual Congress, Washington, USA (Lecture and Session Chair)  
 7 December 2004 – British Society of Immunology Congress, Harrogate, UK (Session Chair)  
 14<sup>th</sup> Jan 2005 – Centre for Biophotonics, Strathclyde University, Glasgow.  
 10<sup>th</sup> February 2005 – Metchnikov Club, Edinburgh University  
 16<sup>th</sup> February 2005 – Department of Microbiology and Biochemistry, Leeds University  
 9<sup>th</sup> March 2005 –Department of Pharmacy and Pharmacology, University of Bath  
 11<sup>th</sup> April 2005 – Public Lecture at The Royal Institution, London, UK  
 7-9<sup>th</sup> May 2005 – IRIS/HFSP meeting, Karolinska Institute, Sweden.  
 10<sup>th</sup>-12<sup>th</sup> June 2005 – Conference: ‘Molecular host response mechanisms’, Karolinska Institute, Sweden.  
 13<sup>th</sup> June 2005 – Cambridge University/LMB  
 22<sup>nd</sup>-24<sup>th</sup> June 2005 – EMBO Young Investigator Symposium  
 24<sup>th</sup> –26<sup>th</sup> June 2005 – EMBO Conference on Quantitative Biology, EMBL, Heidelberg  
 7-8<sup>th</sup> September 2005 – 16th Annual conference of the British Society of Histocompatibility and Immunogenetics, Plymouth  
 9<sup>th</sup> September 2005 – Lister Institute Annual Meeting, Cambridge.  
 22<sup>nd</sup> September 2005 – CIML, Marseille, France  
 20<sup>th</sup> October 2005 – Lister Institue Prize Lecture, Imperial College London  
 26<sup>th</sup> October 2005 – University of York.  
 3-8<sup>th</sup> November 2005 – The EMBO Young Investigator Lecture, Annual Natural Killer Cell Congress, Hawaii, USA  
 16<sup>th</sup> November 2005 – BSI Immunology North East, Newcastle University  
 1<sup>st</sup> December 2005 – Imaging Seminar Series, University of Bristol  
 10-15<sup>th</sup> February 2006 – Keystone Symposia, Innate Immunity, Banff, Canada.  
 27-28<sup>th</sup> March 2006 – British Transplantation Society Annual meeting, Edinburgh.  
 3<sup>rd</sup> May 2006 – Division of Cell Biology & Immunology, University of Dundee  
 9<sup>th</sup> May 2006 – NIH, Twinbrook II Seminar Series, Washington, USA  
 16<sup>th</sup> May 2006 – Innate Immunity Symposium, Imperial College London  
 6<sup>th</sup> June 2006 – Cell Biology Day, Imperial College London  
 16<sup>th</sup> October 2006 – Maxwell Society, Physics Department, Kings College London  
 14<sup>th</sup> November 2006 – Career Talks for Postdocs, Cancer Research UK, London  
 17<sup>th</sup> November 2006 – Faculty of Life Sciences Seminars, University of Manchester  
 6-9<sup>th</sup> December 2006 – NK2006, NK cell Workshop, Heidelberg, Germany  
 31<sup>st</sup> January 2007 – London School of Hygiene and Tropical Medicine  
 12<sup>th</sup> February 2007 – Wright Fleming Seminars, St. Mary’s, London.  
 15-16<sup>th</sup> February 2007 – Abacus retreat, Meeting with Merck, Hanbury Manor  
 6<sup>th</sup> March 2007 – Babraham Institute, Cambridge  
 15<sup>th</sup> March 2007 – Merseyside Immunology Group, University of Liverpool  
 28<sup>th</sup> March 2007 – NK cell Club, UCSF, San Francisco, USA  
 29<sup>th</sup> March 2007 – Biomedical Science Seminars, UCSF, San Francisco, USA  
 30<sup>th</sup> March 2007 – Amgen, Seattle, USA

11-14<sup>th</sup> April 2007 – 10<sup>th</sup> Annual Natural Killer Cell Congress, Cambridge  
 12<sup>th</sup> June 2007 – Imperial College Med School, Hammersmith Hospital, London  
 15-19<sup>th</sup> July 2007 – European Biophysics Congress, Chair/Organiser of ‘Live cell imaging’, London  
 18<sup>th</sup> July 2007 – Merck Abacus Program, London  
 23-24<sup>th</sup> July 2007 – Active and mixed membranes, Institute of Physics, London  
 5<sup>th</sup> - 8<sup>th</sup> September 2007 – Transplantation Society Congress, Nova Scotia, Canada  
 11<sup>th</sup> September 2007 – Immunology Lecture Series, Stanford University, USA  
 25<sup>th</sup> -27<sup>th</sup> October 2007 – 4<sup>th</sup> meeting for the European Initiative in Microbiology and Infectious Disease, Winchester, UK  
 6<sup>th</sup> November 2007 - ‘Cancer Immunotherapy: Beyond the T cell’, University College London.  
 28<sup>th</sup> November 2007 – Inaugural Lecture ‘Secrets of your immune system’, Imperial College London  
 7<sup>th</sup> December 2007 – Imaging symposium, Hammersmith Hospital, London  
 12-17<sup>th</sup> January 2008 – Keystone Symposium, Molecular basis for biological membrane organization, Big Sky, Montana USA  
 10<sup>th</sup> March 2008 – Department of Pathology, Cambridge University  
 14<sup>th</sup> May 2008 – Department of Physics, Strathclyde University, Glasgow  
 5<sup>th</sup> June 2008 – UCL Med School, Royal Free Hospital, Hampstead, London  
 27<sup>th</sup> June 2008 – Pasteur Institute, Paris, France  
 4<sup>th</sup>-6<sup>th</sup> July 2008 - EMBO Workshop, MHC class I Molecules at the Interface between Biology and Medicine, Porto, Portugal.  
 22-23<sup>rd</sup> Sept 2008 - New opportunities for vaccines and immunotherapies, MRC Workshop, Sanger Centre, Cambridge  
 25<sup>th</sup> Sept 2008 – Visualising Immunology, Cambridge University  
 10<sup>th</sup> October 2008 – Friday Evening Discourse, The Royal Institution, London  
 16<sup>th</sup> October 2008 – Wales College of Medicine, Cardiff University  
 5<sup>th</sup> November 2008 – Institute for Molecular Medicine, Oxford University  
 18-20<sup>th</sup> November 2008 – British Society of Immunology Congress, Glasgow  
 25<sup>th</sup> November 2008 – Immunobiology department, Guy's Hospital, Kings College London  
 15<sup>th</sup> – 17<sup>th</sup> January 2009 – EMBO Workshop ‘Visualising Immune Responses’, Marseille, France  
 23-24<sup>th</sup> February 2009 – NK cell Workshop, Vienna, Austria  
 4<sup>th</sup> March 2009 - Institute of Neurology, University College London  
 16<sup>th</sup> March 2009 - Windeyer Institute of Medical Sciences, University College London  
 19<sup>th</sup> – 20<sup>th</sup> March 2009 – Cellular Therapy, Nurnberg, Germany  
 15-16<sup>th</sup> April 2009 - Imaging the Immune system: From Cancer to Pathogens, York  
 23<sup>rd</sup> April 2009 – Laboratory of Molecular Biology (LMB), Cambridge  
 30<sup>th</sup> April 2009, National Institute of Medical Research, Mill Hill  
 1<sup>st</sup> May 2009 - Department of Biological Sciences, University of Warwick  
 18<sup>th</sup> – 20<sup>th</sup> May 2009 – Nobel Conference on ‘Two faces of the synapse – immune versus neural’, Karolinska Institute, Stockholm  
 6<sup>th</sup> November 2009 - Bionanotechnology Programme, Department of Physics, University of Oxford  
 19<sup>th</sup> November 2009 – Chemical Biology Centre colloquium, Imperial College London  
 23<sup>rd</sup> November 2009 – Wright-Fleming Seminar, St Mary’s, London  
 26<sup>th</sup> -29<sup>th</sup> January 2010 – Winter School on Physical Chemistry of Polymers and Membranes, Adelboden, Switzerland  
 27<sup>th</sup> Feb – March 4<sup>th</sup> 2010 – Keystone meeting, Lymphocyte Activation and gene expression, Beckenridge, Colorado, USA (short talk, selected from abstract submissions)  
 24<sup>th</sup> March 2010 - Division of Immunology, Infection & Inflammation, University of Glasgow  
 4<sup>th</sup> May 2010 – Immunology Colloquium Seminar Series, U Penn, USA  
 7<sup>th</sup> -11<sup>th</sup> May 2010 – ‘The Many Sides of the Natural Killer Cell Response’ at the American Association of Immunologists’ meeting, Baltimore, USA  
 11<sup>th</sup> June 2010 – John Squire Club, University of Birmingham.  
 22<sup>nd</sup> June 2010 – Institute of Child Health Seminar, London.  
 29<sup>th</sup> June- 1<sup>st</sup> July 2010 – Microscience 2010, Session Chair/Organiser, London.  
 11<sup>th</sup> – 15<sup>th</sup> Sept 2010 - NK2010, 12<sup>th</sup> Meeting of the Society for Natural Immunity, Croatia  
 17<sup>th</sup> Sept 2010 – Lister Institute Fellow’s Meeting, Christ’s College, Cambridge  
 4<sup>th</sup> November 2010 – GSK, Stevenage.

1<sup>st</sup> December 2010 – Dunn School of Pathology, Oxford University  
 9<sup>th</sup> -14<sup>th</sup> Jan 2011, Keystone Symposium, NK and NKT Cell Biology: Specificity and Redundancy of Innate Responses, Breckenridge, Colorado, USA  
 10<sup>th</sup> -15<sup>th</sup> April 2011, Imaging, Interpretation and Modeling in Modern Immunology, Banff International Research Station (BIRS), Canada  
 3-5<sup>th</sup> May 2011 – 13<sup>th</sup> International Myeloma Workshop, Paris, France  
 15<sup>th</sup> -17<sup>th</sup> June – KIR 2011, Stockholm, Sweden  
 10<sup>th</sup> -13<sup>th</sup> Sept 2011 - The EMBO Meeting 2011, Vienna, Austria  
 Oct 30-Nov 3 2011- 17th IUPAB International Biophysics Congress, Beijing, China  
 5 – 8 Dec 2011- British Society of Immunology Congress, Liverpool, UK  
 13<sup>th</sup> Dec 2011 – NIH Cancer and Inflammation Program retreat, Bethesda, USA  
 14<sup>th</sup> Dec 2011 – Immunology Seminar Series, NIH, Bethesda, USA  
 12<sup>th</sup> January 2012 – Institute of Immunology and Infection Research, King’s Buildings, Edinburgh University  
 17<sup>th</sup> January 2012 - Molecular and Cell Biology Seminar Series, National Heart and Lung Institute Imperial College London  
 2<sup>nd</sup> March 2012 - Centre for Molecular & Cellular Biology of Inflammation, Kings College London  
 29<sup>th</sup> March 2012 - The Infection and Immunity Affinity Group of the BSI, London  
 20-24 April 2012 – NK cell Congress, Society for natural Immunity, Asilomar USA (Short-talk)  
 24<sup>th</sup> May 2012 - School of Biochemistry, University of Bristol  
 3<sup>rd</sup> July 2012 - Peter Gorer Department of Immunobiology, Guys and Thomas  
 27<sup>th</sup> July 2012 – Weatherall Institute of Molecular Medicine, Oxford  
 10-13<sup>th</sup> Sept 2012 – From the Laboratory to the Clinic, Trinity College, Oxford  
 13<sup>th</sup> Sept 2012 – Protein-Protein Interaction Network, University of Leeds  
 20-21<sup>st</sup> Sept 2012 – Irish Society of Immunology annual meeting, Trinity College Dublin, Ireland  
 21<sup>st</sup> Nov 2012 – Seminar, Department of Pathology, Cambridge University  
 11<sup>th</sup> March 2013 – Manchester Collaborative Centre for Inflammation Research, launch event, Midland Hotel, Manchester  
 4<sup>th</sup> April 2013 – Talk at Strictly Science, celebrating 100 years of the MRC  
 22-23<sup>rd</sup> April 2013 – AstraZeneca, MoIndal, Sweden  
 25<sup>th</sup> April 2013 – Priority areas in inflammation research, Manchester, UK  
 11<sup>th</sup> July 2013 – GSK, Stevenage, UK.  
 18<sup>th</sup> – 22<sup>nd</sup> Sept 2013 – NK2013, The 14<sup>th</sup> NK cell Congress, Heidelberg, Germany  
 7<sup>th</sup> Oct 2013 – Science seminar, Manchester University  
 16<sup>th</sup> Oct 2013 – Photonex, Coventry, UK  
 28<sup>th</sup> Oct 2013 – Manchester Science Festival, Historic Reading Room, John Rylands Library  
 30<sup>th</sup> Oct 2013 – York University, Infection and Immunity Seminar series, UK  
 6<sup>th</sup> Nov 2013 – AZ Science Symposium, After-dinner speaker: The Compatibility Gene  
 13<sup>th</sup> Nov 2013 – Your amazing blood, Primary School event, Manchester  
 15<sup>th</sup> Nov 2013 – Dept of Pharmacology ‘Tea Club’, Cambridge University  
 27<sup>th</sup> Nov 2013 – King’s College, Biologist’s seminars, Cambridge University  
 2-5<sup>th</sup> Dec 2013 – British Society of Immunology Congress, Liverpool, UK  
 2<sup>nd</sup> Dec 2013 – Science Show Off, Liverpool, UK.  
 22<sup>nd</sup> Jan 2014 – TEDx Youth Conference (450 students), Fallibroome High School, Macclesfield UK  
 11<sup>th</sup> Feb 2014 – Oxford University Biology Society and Bang Science  
 27<sup>th</sup> Feb 2014 – Cancer research workshop, Manchester  
 3<sup>rd</sup> March 2014 – Fellows Dinner, Academy of Medical Sciences  
 20<sup>th</sup> March 2014 – Public lecture: The Compatibility Gene, Royal Institution, London  
 11<sup>th</sup> April 2014 – Public Discussion: Who am I? Edinburgh International Science Festival  
 9<sup>th</sup> May 2014 – PhD Conference, Manchester  
 25<sup>th</sup> May 2014 – The Compatibility Gene, The Hay Festival, Hay-on-Wye  
 19<sup>th</sup> June 2014 – King David’s High School  
 21<sup>st</sup> June 2014 - Festival of Ideas, York  
 27<sup>th</sup> June 2014 – Keynote talk, Postgraduate conference, University of the West of England  
 19<sup>th</sup> July 2014 – Latitude Music Festival  
 7-12<sup>th</sup> September 2014 – 18<sup>th</sup> International Microscopy Meeting, Prague

12<sup>th</sup> – 18<sup>th</sup> Sept 2014, From the lab to the clinic, Oxford  
 17-18<sup>th</sup> Sept 2014 – Super-resolution imaging meeting, Oxford  
 30<sup>th</sup> Sept 2014 – Fluorescence microscopy for understanding health and disease, Manchester (Meeting organiser)  
 21<sup>st</sup> October 2014 – Wilmslow SciBar  
 5<sup>th</sup> November 2014 - Life Science Technician's Seminar series, Manchester  
 25<sup>th</sup> February 2015 – Love science event, Diversity day, Manchester  
 26<sup>th</sup> February 2015 – Insights Lecture, The Law Society, London  
 9<sup>th</sup> March 2015 – Bollington SciBar, Cheshire, UK  
 27-28<sup>th</sup> March 2015 – Dutch Society of Immunology, Lunteren, the Netherlands.  
 2<sup>nd</sup> – 6<sup>th</sup> May, 2015, NK cell Congress, SNI Meeting, Montebello, Quebec, Canada  
 13<sup>th</sup> May 2015 – Keynote talk, Institute of Cardiovascular Sciences symposium, Manchester, UK  
 22<sup>nd</sup> - 29<sup>th</sup> May 2015 – Chair of 4 events, including Lord Martin Rees, Hay Festival, Hay-on-Wye, UK  
 2<sup>nd</sup> – 7<sup>th</sup> June 2015 –The Compatibility Gene and Science Question Time, Two events at the Cheltenham Science Festival, UK  
 7<sup>th</sup> -12<sup>th</sup> June, 2015 - FASEB SRC, Signal Transduction in the Immune System, Big Sky, Montana, USA  
 June 29<sup>th</sup> – July 2<sup>nd</sup> 2015 - Microscience Microscopy Congress 2015, Manchester, UK  
 6<sup>th</sup> October 2015 – Chemical and Physics Society, UCL  
 14<sup>th</sup> October 2015 - Collaborative research center on leukocyte trafficking, Munich, Germany  
 16<sup>th</sup> October 2015 – Inspiration Day: Being a scientist and an author, St. Anne's Fulshaw Primary School, Wilmslow, UK  
 5-6<sup>th</sup> November 2015 - Vienna Biocenter (VBC) PhD symposium, Vienna, Austria  
 12<sup>th</sup> Dec 2015 – American Society of Cell Biology, San Diego, USA  
 29<sup>th</sup> January 2016 – Cancer Research UK away day, Manchester  
 24<sup>th</sup> February 2016 –The Compatibility Gene, Science Museum London  
 1<sup>st</sup> March 2016 – Bristol University Departmental Seminar Series, Bristol  
 17<sup>th</sup> March 2016 - Institute of Immunity and Transplantation, UCL Royal Free, London, UK.  
 22<sup>nd</sup> May – 2<sup>nd</sup> June 2016 – Chair or panel member in 7 events, including panel discussion for A-level students and events with Steve Jones, Kat Arney, Richard Fortey, Hay Festival, Hay-on-Wye, UK  
 10<sup>th</sup> June 2016 – Decoding the immune system, Cheltenham Science Festival, UK  
 15<sup>th</sup> June 2016 - Weatherall Institute of Molecular Medicine, Oxford University  
 22<sup>nd</sup> June 2016 - Summer Symposium, Edinburgh, UK  
 20<sup>th</sup> – 21<sup>st</sup> September 2016 - Imaging the immune system II - The Weizmann Institute, Israel  
 22<sup>nd</sup> September 2016 – Hebrew University, Jerusalem  
 2-5<sup>th</sup> Oct 2016 – International NK cell congress, Taormina, Sicily  
 25<sup>th</sup> November 2016 - Symposium for Biological and Life Science Students (SymBLS) at the University of Cambridge, UK  
 29<sup>th</sup> November 2016 – AstraZeneca, Macclesfield, UK  
 6<sup>th</sup> -9<sup>th</sup> December 2016 – Joint Congress for Dutch and UK Societies of Immunology, Liverpool, UK.  
 20-22<sup>nd</sup> March 2017 - Biological Physical Sciences Institute, York, UK.  
 8-9<sup>th</sup> June 2017 – Mathematical modelling of immunity, Microsoft Research, Cambridge, UK.  
 30<sup>th</sup> June 2017 - University of Birmingham Institute of Immunology & Immunotherapy, UK.  
 17-20<sup>th</sup> October 2017 - Scandinavian Society of Immunology (SSI) meeting, Stockholm, Sweden.  
 4<sup>th</sup> -7<sup>th</sup> December 2017 – British Society of Immunology Congress, Brighton, UK.

## Book: The Compatibility Gene

My book, *The Compatibility Gene*, has been widely acclaimed – see quotes below – and I appeared on TV (BBC Breakfast) in the UK and the USA (The Cycle, NBC), and over 15 radio programs.

### Some published comments on *The Compatibility Gene*:

"...[A]n elegantly written, unexpectedly gripping account of how scientists painstakingly unravelled the way in which a small group of genes ... crucially influence, and unexpectedly interconnect, various aspects of our lives... Lab work has rarely been made to seem more interesting or heroic." -- **Bill Bryson, Guardian Books of the Year 2013**

Who am I? What makes me different from everyone else? Daniel Davis recounts the remarkable science that has answered one version of these questions. He makes immunology as fascinating to popular science readers as cosmology, consciousness, and evolution (**Steven Pinker**, Johnstone Professor of Psychology, Harvard University, and the author of 'How the Mind Works' and 'The Better Angels of Our Nature')

There aren't many stories of scientific endeavour that have never been told. This is one of them. Ostensibly about a set of genes that we all have and need, this book is really about the men and women who discovered them and worked out what they do. It's about brilliant insights and lucky guesses; the glory of being proved right and the paralysing fear of getting it wrong; the passion for cures and the lust for Nobels. It's a search for the essence of scientific greatness by a scientist who is headed that way himself (**Armand Marie Leroi**, author of 'Mutants')

Genes help make us what we are, but in the often overstated claims of what DNA can actually say one crucial section of the double helix has largely been ignored. This book fills that gap. The genes behind our system of diversity code for the clues that control tissue transplants, responses to infection and even sexual success. They are complex indeed but the *Compatibility Gene* cuts through the complexity to reveal the startling truth about perhaps the most important section of the molecule that defines what it means to be human (**Steve Jones**, author of 'Almost Like A Whale')

Davis weaves a warm biographical thread through his tale of scientific discovery, revealing the drive and passion of those in the vanguard of research ... unusual results, astonishing implications and ethical dilemmas (**The Times**)

Davis makes the twists and turns all count (**Guardian**)

Davis ranges energetically through the research. Cultural references and anecdotes abound (**Nature**)

A fascinating, expertly told story (**Michael Brooks New Statesman**)

The genes that make you a true individual ... Davis provides a well-written and easy-to-read account of the sometimes complicated biology behind the crucial genes that affect our lives so profoundly (**New Scientist**)

Wonderful pen-portraits of the many scientists involved in this fast-moving field ... 5 out of 5 stars (**Henry Gee BBC Focus magazine**)

Dr. Davis's readable and informative book takes the reader into unexpectedly interesting corners of both the immune system and the lives of immunologists. It is packed with an insider's knowledge - not just of the field, but of where its bodies are buried (**Nicholas Wade New York Times**)



## Previous PhD Student Supervision

Date	Student	Grant Type	Awarding Body/Supervision	Subject or Title
Oct 2017 - Present	P. Simmonds	PhD Studentship	MRC	Using super-resolution microscopy to study macrophage biology in asthma and chronic obstructive pulmonary disease
Oct 2017 - Present	J. K. Tuomela	Cancer Research UK PhD Studentship	Manchester Cancer Research Centre	Molecular recognition of radiotherapy-treated cancer cells by human Natural Killer cells
Oct 2014 - Present	D. Freidman	PhD Studentship	MCCIR	The importance of stiffness in NK cell activation
Oct 2014 - Present	K. Walwyn-Brown	PhD Studentship	MRC	Dendritic cell interactions
Oct 2013 - Present	K. Srpan	PhD Studentship	MCCIR/GSK	CD16 shedding
Oct 2013 - Present	M. Saeed	PhD studentship	MCCIR/MedImmune	T cell actin
Oct 2012 – viva April 2016	A. Oszmiana	PhD Studentship	MCCIR	Super-resolution imaging of NK cell recognition
Oct 2011 – viva April 2016	C. Barthen	Quota studentship	BBSRC	HLA and disease
Oct 2011 – viva Aug 2015	K. Lagrue	BBSRC CASE award with Cellgene	BBSRC	How does Revlimid influence the supramolecular dynamics of human immune cell recognition and communication
Oct 2010 – Present (he had a year sabbatical)	A. Savell	Chemical Biology Doctoral Training Centre	EPSRC / Joint supervision with Paul French and Mark Neil, Physics	Imaging nanotubes with super-resolution microscopy
Oct 2010- viva Nov 2014	A. Cartwright	GSK supported	Case Studentship awarded to GSK	The Immune synapse as a gasket
Oct 2008 – Viva May 2012	S Pagoon	Quota Studentship	BBSRC / Sole supervisor	NK cell synapse microclusters
Oct 2007 – Viva Dec 2010	H. Evans	Wellcome Trust studentship	Wellcome Trust / Sole Supervisor	NK cell - macrophage communication
Oct 2006 – Viva Nov 2010	S. Oddos	Chemical Biology Doctoral Training Centre	EPSRC / Joint supervision with Paul French and Mark Neil, Physics	Novel techniques for imaging immune synapses

Oct 2006 – Not submitted, extenuating circumstances	M. Johnson	Quota Studentship	BBSRC / Sole Supervisor	NK cell synapse
Oct 2006 – viva Nov 17 <sup>th</sup> 2009	A. Chauveau	French Government award	Joint supervision with Eric Vivier, Marseille	Membrane nanotubes
Oct 2004 – viva Nov 27 <sup>th</sup> 2009	S. Kumar	Chemical Biology Center	Joint supervisor with Paul French, Physics.	Quantitative FRET for imaging immune synapse assembly.
Oct 2004 – viva Feb 22 <sup>nd</sup> 2008	G. Buckland	EMBO / MRC Research grant	EMBO & MRC / Joint supervisor with Tony Magee, Med. School	Lipid modifications in immunological receptors
Oct 2004 – viva Nov 26 <sup>th</sup> 2008	S. Sowinski	Wellcome Trust studentship	Wellcome Trust / Sole Supervisor	New aspects of immune cell communication
Oct 2003 – Viva Sept 18 <sup>th</sup> 2007	G. Williams	Quota studentship	BBSRC / Sole Supervisor	Intercellular transfer at NK cell immune synapses
May 2003 – Viva May 11 <sup>th</sup> 2007	C. de Almeida	Award from the Portuguese government	Ministry of Science and Technology, Portugal / Sole Supervisor	Regulation of the NK cell Immunological Synapse
Dec 2002 – viva Oct 2006	P. Lannigan	Beacon Award - Harnessing Genomics	DTI / Joint supervisor with Paul French, Physics.	Fuorescence lifetime imaging
Dec 2002 – Viva May 24 <sup>th</sup> 2006	B. Treanor	Beacon Award - Harnessing Genomics	DTI / Joint supervisor with David Phillips, Chemistry.	Probing the immune synapse with fluorescence lifetime imaging
Oct, 2001 – Viva Nov 24 <sup>th</sup> 2005	S. Taner	BBSRC Committee Studentship	BBSRC / Sole Supervisor	Lipid rafts in human NK cell surveillance.
Dec, 2000 – Viva 12 <sup>th</sup> June 2006	K. Eleme	Employed as Research Assistant.	MRC / Sole supervisor	Viral recognition at human NK cell immune synapses.
Oct, 2001 – Viva April 7 <sup>th</sup> 2005	B. Vanherberghen	Employed as Research Assistant.	MRC & Marie Curie Fellowship. Joint supervisor with Petter Hoglund, Sweden.	Protein transfer across the NK cell immune synapse.
Oct 2000 – Dec 2003	L. Carlin.	BBSRC Studentship	BBSRC	NK cell recognition

## Members of my research lab

Current Members of the Lab (in order of arrival):

1. Kevin Stacey (Research Technician, Jan 2013 -)
2. Philippa Kennedy (Postdoc, Feb 2013 -)
3. Katja Srpan (PhD Student, Oct 2013 -)
4. Mezida Saeed (PhD student, Oct 2013 -)
5. Daniel Friedman (PhD Student, Sept 2014 -)
6. Katie Walwyn Brown (PhD student, Sept 2014 -)
7. Eric Pitkeathly (Postdoc, June 2016 -)
8. Ashley Ambrose (Postdoc, July 2016 -)
9. Sam Smith (Postdoc, Dec 2016 -)

Past members:

1. Kumiko Yanagi (now Lecturer equivalent at Ryukyus University, Japan)
2. Klaus Suhling (moved to be Lecturer at Kings College, London, now Professor in Physics)
3. Leo M. Carlin (PhD Student then Postdoc, Oct 2000 - Dec 2004, moved to postdoc at Kings College London, then faculty at Imperial College London, then Faculty at Cancer Research UK, Beatson Institute, Glasgow)
4. Bruno Vanherberghen (Research Assistant, Oct 2001 - Oct 2004, moved to postdoc at Karolinska Institute)
5. Sabrina Taner (PhD Student, Oct 2001 - Oct 2004, moved to postdoc at UCSF)
6. Konstantina Eleme (Research Assistant & PhD Student, Dec 2000 – March 2005, moved to clinical trials manager at Chiltern)
7. Fiona McCann (Postdoc., Feb 2001 - Dec 2005, moved to postdoc at Kennedy School, London)
8. Bebhinn Treanor (PhD Student, November 2002 - Nov 2005, moved to postdoc at Cancer Research UK, now Faculty at University of Toronto)
9. Peter Lannigan (PhD Student, joint with Paul French (Physics), Oct 2002 - Oct 2005, now postdoc in Chemistry, Imperial College)
10. Bjorn Onfelt (Postdoc, April 2003 - April 2006, moved to lab head position in Karolinska Institute)
11. Esther Nolte-'t Hoen (Postdoc, Feb 2004 - Feb 2006, moved to head lab in Amsterdam)
12. Geoff Williams (PhD Student, Oct 2003 - Oct 2006, moved to postdoc with Alex Betz, LMB, Cambridge, then to work at Medimmune, AstraZeneca)
13. Adam Gehring (Postdoc, in collaboration with UCL, May 2004 - Jan 2006, moved to A Star, Singapore)
14. Rufina Leung (Research Technician/Lab Manager, Feb 2006 – April 2007)
15. Catarina Rodrigues de Almeida (PhD Student, May 2003 – May 2007, Postdoc, June 2007 – Sept 2007, now postdoc in Porto)
16. Shlomo Nedvetzki (Postdoc, Aug 2003 –Sept 2007)
17. Gemma Buckland (PhD student in collaboration with Tony Magee (Medicine), Aug 2004 – Feb 2008)
18. Fiona Culley (Research Lecturer, Jan 2006 – March 2008, now Lecturer at St. Mary's, London)

19. Marco Purbhoo, (Postdoc, June 2005- Sept 2008, moved to be a Lecturer at St. Mary's, London)
20. Steffi Sowinski (PhD student, Oct 2004 - Oct 2008, moved to postdoc at UCSF)
21. Sunil Kumar (PhD student, in collaboration with Paul French, Oct 2004 – April 2009, moved to postdoc in Physics Dept, Imperial College London).
22. Philipp Eissmann (Postdoc, Aug 2006 –Jan 2010, moved to work at MedImmune)
23. Matt Johnson (PhD student Oct 2006 – Oct 2009)
24. Anne Chauveau (PhD student in collaboration with Eric Vivier (Oct 2006 – April 2010, moved to postdoc with Morgan Huse, New York, then to Oxford University)
25. Karsten Kohler (Postdoc, June 2006 –April 2010, moved to postdoc with Chris Rudd, Cambridge)
26. Amir Horowitz (Postdoc, part-time, April 2010 – October 2010, moved to postdoc with Peter Parham, Stanford)
27. Stephane Oddos (PhD student in collaboration with Paul French, Oct 2006 –Oct 2010, moved to industry)
28. Henry Evans (PhD Student, October 2007 – Dec 2010, moved to postdoc in Harvard)
29. Juha-Matti Alakoskela (Postdoc, June 2009 – Dec 2010, moved to start his own lab in Finland)
30. Alice Brown (Postdoc, Oct 2009 – April 2012, moved to Biotech in Oxford)
31. Maryam Mehrabi (Research Technician, June 2007 – Oct 2012; moved to Sara Rankin's laboratory, Imperial College London)
32. Sophie Pigeon (PhD Student then Postdoc, October 2008 – Oct 2012; moved to Kat Gaus's laboratory, Sydney, now Oxford University)
33. Anne Aucher (Postdoc, October 2008 – March 2013)
34. Dominika Rudnicka (Postdoc, Feb 2010 – March 2013; moved to be an editor at Nature Communications)
35. Shaun-Paul Cordoba (Postdoc, June 2012 – March 2013; moved to postdoc at UCL)
36. Alex Carisey (Postdoc, March 2013 – November 2014; moved to postdoc in Houston, USA)
37. Adam Cartwright (PhD student, Oct 2010 – March 2015; moved to postdoc at Harvard University, USA)
38. Alex Savell (PhD student, joint with Prof. Paul French, Oct 2010 – Dec 2015)
39. Katherine Lagrue (PhD student, Oct 2011 – Oct 2015)
40. Charlotte Barthen (PhD student, Oct 2011 – Jan 2016, left to work at LEK Consulting)
41. Anna Oszmiana (PhD student, Oct 2012 – March 2016, left to postdoc in Maria-Degli Esposti's lab, Australia)
42. Dave Williamson (Postdoc, Feb 2013 – Feb 2016, left to be a postdoc with Dylan Owen, Kings College London)
43. Christian Loftus (PhD student, Oct 2012 – Oct 2016)
44. Filipa Lopes (Postdoc, May 2013 – Dec 2016, moved to work at ImmunoCore, Oxford)
45. Stefan Balint (Postdoc, Sept 2013 – Dec 2016, moved to postdoc with Mike Dustin, Oxford)
46. David Morgan (Postdoc, Nov 2013 – Dec 2016, moved to a postdoc position with Tracy Hussell, Manchester)

## Research Grants and Contracts

Source of Funds	Title of Project	Duration	Date of Start	Total Value	Names of other Holders (if any)	Other Comments
The Royal Society	Protein Recognition at Cell surfaces	2 Years	March 2000	£10,000	None	-
MRC	The Human Natural Killer Cell Immune Synapse	5 Years	October 2000	£588,266	None	Career Establishment Award
BBSRC	Imaging Natural Killer Cell Immune Synapse Formation by Green Fluorescent Protein Lifetime Microscopy	3 Years	December 2000	£323,988	Co-Applicants are Paul French (Physics, IC), David Phillips OBE (Chemistry, IC).	I am the Principal Investigator
BBSRC	Supramolecular Organisation at immune synapses in human T cell anergy and tolerance	2.5 Years	July 2001	£247,708	Co-Applicant is Margaret Dallman (Biology, IC)	I am the Principal Investigator
BBSRC	Lipid raft proteomics of human Nk cells	3 years	Oct 2001	PhD Student-ship	-	-
The Royal Society	Immune Synapse Electron Microscopy	2 Years	March 2002	£9,000	None	-
EMBO	Immunological Synapses	3 Years	October 2002	£30,000	None	Young Investigator Program Award
The Department of Trade and Industry	Functional bioimaging using fluorescence lifetime imaging	3 Years	October 2002	£1.44M (£235,298 to my lab)	Consortium headed by Paul French (Physics, IC). I am the first co-applicant	-
Foundation for Science and Technology, Portugal.	Thresholds for activation and inhibition of NK cells	4 Years	May 2003	139,080 Euro	Sponsor for Catarina de Almeida	-
Human Frontier Science Program	The mathematics, physics and biology of Natural Killer cells	3 Years	May 2003	\$750,000 (\$275,000 to my lab)	Collaboration with Petter Högglund (Karolinska Institute) and Ramit Mehr (Jerusalem)	Ranked 1 <sup>st</sup> of all applications.
MRC	Confocal Microscope	-	July 2003	£163,027	None	MRC Equipment Supplement Scheme
BBSRC	Multiuser TIRF microscopy set up for realtime cellular and molecular imaging	-	Sept 2003	£66,796	I am one co-applicant in consortium	BBSRC Large Capitol
Wellcome Trust	Functional and molecular analysis of virus specific tetramer-negative CD8 T cells during chronic hepatitis B virus infection.	2 Years	Oct 2003	£106,000 (£12K to my lab)	I am the co-applicant. PI is Antonio Bertoletti, UCL.	-
Wellcome Trust	PhD program in Infection & Immunity	3 Years	Oct 2004	£125,250	Studentship for S. Sowinski	Grant obtained by consortium
BBSRC	Membrane nanotubes as a novel mechanism of intercellular communication	3 Years	Jan 2005	£224,000	None	Final report graded A (Feb 2009)

Source of Funds	Title of Project	Duration	Date of Start	Total Value	Names of other Holders (if any)	Other Comments
Lister Institute	Nanotubes and Synapses in Immune Cell Communication	3 Years	May 2005	£150,000	None	Research Prize
MRC	Immune cell communication facilitated by the supramolecular organisation and intercellular transfer of cell surface proteins	5 Years	Feb 2006	£900,018	None	
BBSRC	Quantification, modelling and analysis of molecular dynamics, patterning and signalling in the NK synapse	4 years	April 2006	£800,000 (£279,000 to my lab)	Collaboration with Nigel Burroughs (Warwick) and Anton van der Merwe (Oxford)	
BBSRC	Investigation of the molecular dynamics of the intercellular communication with advanced multi-dimensional fluorescence spectroscopy and imaging	3 Years	April 2006	£279,701 (£24,000 to my lab)	Collaboration with Klaus Suhling (KCL)	
Wellcome Trust	PhD program in Infection & Immunity	3 Years	Oct 2007	£158,007	Studentship for H. Evans with supplementary funding for specific project	Grant obtained by consortium
Wolfson Royal Society Merck (USA)	Research Merit Award	5 Years	April 2008	£50,000		Personal salary
	Communicating complex network information by intercellular transfer of macrophage proteins and RNA	1 year	Oct 2008	\$75,000	Collaboration with Eric Schadt (Merck)	Project cut short due to 7000 job losses at Merck
Imperial College London	Spatio-temporal mapping of protein interactions in live cells by multidimensional fluorescence imaging	3 Years	Oct 2008	£150,000	P. French (co-PI) with M. Neil, C. Dunsby, T. Magee	Research Excellence Award 2008
Wellcome Trust	Functional proteomic analysis of the ubiquitin pathway during malaria infection	5 Years	April 2009	£666,320 (not my lab)	Sponsor for K. Artavanis-Tsakonas	Research Career Development Fellowship
Marie Curie Award (EU)	Membrane nanotubes—Determining the molecular basis for the formation of membrane nanotubes between immune cells	1 Year	Sept 2009	91,809 Euro	For Juha-Matti Alakoskela	
Wellcome Trust	Regulatory function of NK receptors in pathologies associated with chronic inflammation	5 Years	Oct 2009	£758,604 (not my lab)	Sponsor for Nadia Guerra	Research Career Development Fellowship
MRC (UK)	Understanding and manipulating Antibody Dependent Cell Cytotoxicity (ADCC) by human Natural Killer (NK) cells	3 Years	Jan 2010	£338,667	Matt Sleeman co-applicant from industry	Industrial collaboration with MedImmune
Marie Curie Award (EU)	Improving ADCC	3 Years	Sept 2010	£32,000	For Dominika Rudnicka	

<b>Source of Funds</b>	<b>Title of Project</b>	<b>Duration</b>	<b>Date of Start</b>	<b>Total Value</b>	<b>Names of other Holders (if any)</b>	<b>Other Comments</b>
GSK	Probing and manipulating intercellular cross-talk	4 Years	Oct 2010	<b>£83,281</b>	None	Studentship
Medical Research Council	The supramolecular dynamics of human immune cell recognition and communication	5 Years	March 2011	<b>£2,231,804</b>	None	Sole Applicant: Program Grant
BBSRC	Drug delivery at the immune synapse	3 years	Oct 2011	<b>£453,868</b>	None	Sole Applicant
Celgene	Mechanism of action of Revlimid	3 Years	Oct 2011	<b>£65,000</b>	PhD studentship plus £65k top-up	
Wellcome Trust	In vivo imaging of Natural Killer (NK) cells during chronic inflammation	3 Years	Oct 2012	<b>£42,000</b>	ISSF Inflammation Science (IS) Studentship	With Dr. Nadia Guerra
Manchester Collaborative Center for Inflammation Research	Establishing a new research centre in collaboration with AstraZeneca and GSK	3 Years	Jan 2013	<b>£1,600,000</b>	None	Relocation from Imperial College to Manchester University
Wellcome Trust	A 'Molecular Imaging (FLIM/FCS) toolbox' to investigate molecular interactions and activation in super-resolution and widefield mode	N/A	June 2016	<b>£255,000</b>	Co-applicant	Equipment award for core facility
Wellcome Trust	The nanoscale organisation of immune cell surfaces in health and disease	5 years	Oct 2016	<b>£1,816,067</b>	None	Investigator Award

## Publications

1. **Davis D.M.** "Small Steps into International Orbit". Physics World, 7(10), (1994), 57.
2. **Davis D.M.**, McLoskey D., Birch D.J.S., Swart R.M., Gellert P.R., Kittlety R.S. "Fluorescence studies of tryptophan and Human Serum Albumin (HSA) in AOT reverse micelles." SPIE Proc., 2137, (1994), 331-342.
3. **Davis D.M.**, Birch D.J.S. "A fluorescence study of Nile Red bound to Human Serum Albumin in buffer, denaturant and reverse micelles." SPIE Proc., 2388, (1995), 302-313.
4. **Davis D.M.**, Birch D.J.S. "Extrinsic fluorescence probe study of Human Serum Albumin using Nile Red." Journal of Fluorescence, 6, (1996), 23-32.
5. **Davis D.M.**, McLoskey D., Birch D.J.S., Gellert P.R., Kittlety R.S., Swart R.M. "The fluorescence and circular dichroism of proteins in reverse micelles: application to the photophysics of human serum albumin and N-acetyl-L-tryptophanamide." Biophysical Chemistry, 60, (1996), 63-77.
6. Pazmany L., Mandelboim O., Vales-Gomez M., **Davis D.M.**, Reyburn H.T., Strominger J.L. "Protection from natural killer cell mediated lysis by HLA-G expression on target cells." Science, 274, (1996), 792-795.
7. Mandelboim O.\* , **Davis D.M.**\* , Reyburn H.T.\* , Vales-Gomez M., Sheu E.G., Pazmany L., Strominger J.L. "Enhancement of class II-restricted T cell responses by costimulatory NK receptors for MHC class I proteins," Science, 274, (1996), 2097-2100. \*These authors contributed equally.
8. Reyburn H.T., Mandelboim O., Vales-Gomez M., Sheu E.G., Pazmany L.P., **Davis D.M.**, Strominger J.L. "Human NK cells: their ligands, receptors and function." Immunological Reviews, 155, (1997), 119-125.
9. Mandelboim O., Reyburn H.T., Sheu E.G., Vales-Gomez M., **Davis D.M.**, Wilson S.B., Pazmany L., Strominger J.L. "The binding site of NK receptors on HLA-C molecules." Immunity, 6, (1997), 341-350.
10. Mandelboim O., Pazmany L., **Davis D.M.**, Vales-Gomez M., Reyburn H.T., Rybalov B., Strominger J.L. "Multiple receptors for HLA-G on human natural killer cells." Proc. Natl. Acad. Sci., 94, (1997), 14666-14670.
11. **Davis D.M.**, McLoskey, D., Birch, D.J.S., Gellert, P.R., Kittlety, R.S., Swart, R.M. "The tyrosyl fluorescence of subtilisin Carlsberg in buffer and reverse micelles." Journal of Fluorescence, 7, (1997), 147s-149s.
12. Reyburn H.T., Mandelboim O., Vales-Gomez M., **Davis, D.M.**, Pazmany L.P., Strominger J.L. "Expression of the MHC class I homologue encoded by human cytomegalovirus inhibits natural killer cell attack." Nature, 368, (1997), 514-517.
13. **Davis, D.M.**, Reyburn H.T., Pazmany L.P., Chiu I., Mandelboim O., Strominger J.L. "Impaired spontaneous endocytosis of HLA-G." European Journal of Immunology, 27, (1997), 2714-2719.
14. Mandelboim O., Kent S., **Davis D.M.**, Wilson S.B., Okazaki T., Jackson R., Hafler D., Strominger J.L. "Natural Killer activating receptors trigger interferon gamma secretion from T cells and natural killer cells." Proc. Natl Acad. Sci., 95, (1998), 3798-3803.
15. Gakamsky D.M.\* , **Davis D.M.**\* , Haas E., Strominger J.L., Pecht I. "Photophysical analysis of class I MHC protein assembly using a Xanthene derivatized beta-2microglobulin." Biophysical Journal, 76, (1999), 1552-1560. \*These authors contributed equally.



16. **Davis D.M.**, Mandelboim O., Luque I., Baba E., Boyson J., Strominger J.L. "The transmembrane sequence of human leukocyte antigen (HLA-) C as a determinant in inhibition of a subset of natural killer cells." Journal of Experimental Medicine, **189**, (1999), 1265-1274.
17. Mandelboim O., Malik P., **Davis D.M.**, Jo C., Boyson J.E., Strominger J.L. "Human CD16 as a lysis receptor mediating direct natural killer (NK) cell cytotoxicity," Proc. Natl. Acad. Sci., **96**, (1999), 5640-5644.
18. Cohen G., Gandhi R., **Davis D.M.**, Mandelboim O., Chen B., Strominger J.L., Baltimore D. "Selective down-regulation of class I MHC proteins protects HIV infected cells from natural killer cell attack." Immunity, **10**, (1999), 661-672.
19. Pazmany L., Mandelboim O., Vales-Gomez M., **Davis D.M.**, Becker T.C., Reyburn H.T., Seebach J.D., Hill J.A., Strominger J.L. "HLA-G and its recognition by NK cells." Journal of Reproductive Immunology, **43**, (1999), 127-137.
20. Gakamsky D.M., Boyd L.F., Margulies D.H., **Davis D.M.**, Strominger J.L., Pecht I. "An allosteric mechanism controls antigen presentation by the H-2Kb complex." Biochemistry, **38**, (1999), 12165-12173.
21. Chiu I\*, **Davis D.M.\***, Strominger J.L. "Trafficking of spontaneously endocytosed major histocompatibility proteins." Proc. Natl Acad. Sci., **96**, (1999), 13944-13949. \* These authors contributed equally.
22. **Davis D.M.**, Chiu I., Fassett M., Cohen G.B., Mandelboim O., Strominger J.L. "The human natural killer cell immune synapse," Proc. Natl. Acad. Sci., **96**, (1999), 15062-15067.
23. Gakamsky D., **Davis D.M.**, Strominger J.L., Pecht I. "Assembly and dissociation of human leukocyte antigen (HLA)-A2 studied by fluorescence energy transfer." Biochemistry, **39**, (2000), 11163-11169.
24. **Davis D.M.** "Cruel and calculating, but it's your best friend: Natural Born Killers," The Times Higher Education Supplement, **1452**, (2000), 34-35.
25. **Davis D.M.** "Molecular recognition of disease at natural killer cell immune synapses," Science Progress, **83**, (2000), 303-316.
26. Baba E., Erskine R., Boyson J.E., Cohen G.B., **Davis D.M.**, Malik P., Mandelboim O., Reyburn H.T., Strominger J.L. "N-linked carbohydrate on human leukocyte -C and recognition by natural killer cell inhibitory receptors," Human Immunol., **61**, (2000), 1202-1218.
27. Suhling K., **Davis D.M.**, Petrásek Z., Siegel J., Phillips D. "The influence of the refractive index on EGFP fluorescence lifetimes in mixtures of water and glycerol," SPIE Proc., **4259**, (2001), 92-101.
28. Mandelboim O., Lieberman N., Lev M., Paul L., Arnon T.I., Bushkin Y., **Davis D.M.**, Strominger J.L., Yewdell J.W., Porgador A. "Recognition of haemagglutinins on virus-infected cells by NKp46 activates lysis by human NK cells." Nature, **409**, (2001), 1055-1060.
29. **Davis D.M.**, "Taking stock of Stockholm." Immunology News, **8**, (2001), 20-21.
30. Carlin L.M., Eleme K., McCann F., **Davis D.M.**, "Intercellular transfer and supramolecular organization of human leukocyte antigen C at inhibitory Natural Killer cell immune synapses." J. Exp. Med., **194**, (2001), 1507-1517. *Featured on journal cover.*

31. Fassett M.S., **Davis D.M.**, Valter M.M., Cohen G.B., Strominger J.L., "Signaling at the Inhibitory Natural Killer Cell Immune Synapse Regulates Lipid Raft Polarization but not class I MHC clustering," Proc. Natl. Acad. Sci., **98**, (2001), 14547-14552.
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36. McCann F.E., Suhling K., Carlin L.M., Eleme K., Yanagi K., French P., Phillips D., **Davis D.M.** "Probing supramolecular organisation at immune synapses." in Templer R., Leatherbarrow R., (Eds.) Biophysical Chemistry: Membranes and Proteins, Royal Society of Chemistry, Cambridge, UK, (2002), pp58-71.
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40. Siegel J., Suhling K., Lévêque-Fort S., Sabharwal Y., Webb S.E.D., **Davis D.M.**, Phillips D., French P.M.W. "Wide-field time-resolved fluorescence anisotropy imaging (TR-FAIM) – A novel approach to image the viscosity of a fluorophore environment", Rev Sci Instrum, **74**, (2003), 182-190.
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42. **Davis D.M.**, Igakura T., McCann F.E., Carlin L.M., Andersson K., Vanherberghen B., Sjöström A., Bangham C.R.M., Hoglund P. "The protean immune cell synapse: A supramolecular structure with many functions", Semin. Immunol., **15**, (2003), 317-324.
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44. Suhling K., Siegel J., Lanigan P.M.P., Lévêque-Fort S., Webb S.E.D., Phillips D., **Davis D.M.**, French P.M.W. "Wide-field time-resolved fluorescence anisotropy imaging (TR-FAIM) applied to live cells", Optics Letters. **29**, (2004), 584-586.

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