



President of ORPHEUS

Robert Adam Harris

Professor in Immunotherapy in Neuroinflammation

Karolinska Institutet



Personal details:

Date and place of

Birth: 12th May 1966,
Harpenden, UK

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L8:04, Karolinska Hospital

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Editor of Frontiers in Molecular
Innate Immunology 2010-

Ad hoc reviewer for scientific journals:

- Frontiers in Molecular Innate Immunology;
- Acta Neurobiologiae Experimentalis;
- Scandinavian Journal of Immunology;
- FASEB Journal;
- Headache;
- European Journal of Neurology;
- European Journal of Neuroinflammation;
- BMC Immunology;
- Cellular Physiology and Biochemistry;
- Neuroimmunomodulation;
- PNAS;
- International Immunology;
- International Journal of Neuropsychopharmacology;
- European Journal of Immunology;
- Immunology;
- European Journal of Immunology;
- Journal of Neuropathology & Experimental Neurology;
- Acta Tropica;
- Journal of Neuroimmunology;
- Vaccine

ACADEMIC QUALIFICATIONS

1987 – BSc (Hons) Biology - Upper Second Class, Portsmouth Polytechnic, UK

1991 – PhD 'Haemolymph proteins and the snail immune response' University College London, UK

PROFESSIONAL EXPERIENCE

1991-1991 – University College London MRC, Post-doctoral fellow

1991-1994 – London School of Hygiene MRC, Post-doctoral fellow & Tropical Medicine

1994-1996 – Karolinska Institutet, Wellcome Trust Travel Fellow

1996-1999 – Karolinska Institutet, Post-doctoral fellow

1999-2013 – Karolinska Institutet, Associate Professor in Molecular Medicine

2013-present – Karolinska Institutet, Professor in Immunotherapy in Neuroinflammation

DOCTORAL EDUCATION EXPERIENCE

2005–present – Director of Doctoral Education (part-time), Department of Clinical Neurosciences, KI

2008–present – Central Director of Doctoral Education (part-time), Central Administration, KI

PhD examiner 7 times nationally/internationally

Lic. examiner 1 time

PhD exam committee member 18 times

Licentiate exam committee member 10 times

PhD half-time control committee member 26 times

Examiner for Docentur 2 times

Supervised 4 PhD students as main supervisor and 14 PhD students as co-supervisor

Currently supervise 5 PhD students as main supervisor and 4 PhD students as co-supervisor

COMMITTEES & BOARDS

2000-2009 – Member of the steering board for the Allergy, Inflammation & Immunology doctoral education programme at Karolinska Institutet.

2002-2005 – Member of the steering board of the Junior Faculty, Karolinska Institutet.

2003-present – Member of Departmental Board at Karolinska Institutet.

2004-2010 – Member of Stockholm North animal ethical Board.

2005-2009 – Member of the steering board for the Neurosciences doctoral education programme at Karolinska Institutet.

2005-2010 – Member of the steering board for the immunology & inflammation network at KI.

2008-present – Teacher representative within KI Board of Doctoral Education.

2010-present – Member of Kvalitetsråd at Karolinska Institutet.

2012-present – Executive Committee Member ORPHEUS (Organisation of PhD Education in Biomedicine and Health Sciences in the European System).

2012-present – Member of Central Experimental Animal steering Board at Karolinska Institutet.

ACADEMIC AWARDS & DISTINCTIONS

- Welcome Trust Travel Fellow award recipient 1994-1996
- British Council Visiting Professor award recipient 1995

MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS

- Society for Neuroimmunology
- Society for Leukocyte Biology
- European Macrophage and Dendritic Cell Society

SELECTED PUBLICATIONS

Achour A, Michaelsson J, **Harris RA**, Odeberg J, Grufman P, Sandberg JK, Levitsky V, Karre K, Sandalova T, Schneider G: A structural basis for LCMV immune evasion: subversion of H-2D(b) and H-2K(b) presentation of gp33 revealed by comparative crystal structure. *Analyses. Immunity* 2002;17:757-768.

Wallberg M, Wefer J, **Harris RA**: Vaccination with myelin oligodendrocyte glycoprotein adsorbed to alum effectively protects DBA/1 mice from experimental autoimmune encephalomyelitis. *Eur J Immunol* 2003;33:1539-1547.

Andersson A, Kokkola R, Wefer J, Erlandsson-Harris H, **Harris RA**: Differential macrophage expression of IL-12 and IL-23 upon innate immune activation defines rat autoimmune susceptibility. *J Leukoc Biol* 2004;76:1118-1124.

Wallberg M, **Harris RA**: Co-infection with *Trypanosoma brucei* prevents experimental autoimmune encephalomyelitis in DBA/1 mice through induction of suppressor APCs. *Int Immunol* 2005;17:721-728.

Wallberg M, Bergquist J, Achour A, Breij E, **Harris RA**: Malondialdehyde modification of myelin oligodendrocyte glycoprotein leads to increased immunogenicity and encephalitogenicity. *Eur J Immunol* 2007;37:1986-1995.

Steed J, Gilliam LK, **Harris RA**, Lernmark A, Hampe CS: Antigen presentation of detergent-free glutamate decarboxylase (GAD65) is affected by human serum albumin as carrier protein. *J Immunol Methods* 2008;334:114-121.

Thessen Hedreul M, Gillett A, Olsson T, Jagodic M, **Harris RA**. Characterization of Multiple Sclerosis candidate gene expression kinetics in rat experimental autoimmune encephalomyelitis. *J Neuroimmunol* 2009;210:30-39.

Harris RA, Amor S: Sweet and sour – oxidative and carbonyl stress in neurological disorders. *CNS Neurol Disorders – Drug Targets* 2010 10(1):82-107.

Parsa R., Andresen P., Gillett A., Mia S., Zhang X-M., Mayans S., Holmberg D., **Harris RA**. Adoptive Transfer of Immunomodulatory M2 Macrophages Prevents Type 1 Diabetes in NOD Mice. *Diabetes* 2012;61:2881-92.

Wang J, Cao Z, Zhang XM, Nakamura M, Sun M, Hartman J, **Harris RA** et al. Novel mechanism of macrophage-mediated metastasis revealed in a zebrafish model of tumour development. *Cancer research* 2014;75(2):306-15

Warnecke A., Sandalova T., Achour A., **Harris RA**. PyTMs: A useful modelling tool for common post-translational modifications. *J Neuroimmunol* 2014;275(1):73-4

Lund H., Zhang X., **Harris R**. Regulation of amyloid beta oligomer phagocytosis by M1 and M2 macrophage polarization. *J Neuroimmunol* 2014;275 (1):87-8

Harris RA. Spatial, temporal, and functional aspects of macrophages during “the good, the bad, and the ugly” phases of inflammation. *Front Immunol* 2014;5:69-72.

Mia S, Warnecke A, Zhang XM, Malmström V, **Harris RA**. An optimized Protocol for Human M2 Macrophages using M-CSF and IL-4/IL-10/TGF- β Yields a Dominant Immunosuppressive Phenotype *Scandinavian journal of immunology* 2014;79(5):305-14

Mills CD, **Harris RA**, Ley K. Macrophage Polarization: Decisions That Affect Health. *J Clin Cell Immunol.* 2015;6(5):364.

Tarasova NK, Ytterberg AJ, Lundberg K, Zhang XM, Harris RA, Zubarev RA. Proteomics Reveals a Role for Attachment in Monocyte Differentiation into Efficient Proinflammatory Macrophages. *J Proteome Res.* 2015 Sep 4;14(9):3940-7.

Mills CD, Lenz LL, **Harris RA**. A Breakthrough: Macrophage-Directed Cancer Immunotherapy. *Cancer Res.* 2016;76(3):513-6.

N'diaye M, Warnecke A, Flytzani S, Abdelmagid N, Ruhrmann S, Olsson T, Jagodic M, **Harris RA**, Guerreiro-Cacais AO. Rat bone marrow-derived dendritic cells generated with GM-CSF/IL-4 or FLT3L exhibit distinct phenotypical and functional characteristics. *J Leukoc Biol.* 2016;99(3):437-46.