Curriculum Vitae

Personal Information

Name: **Biliana Lozanoska-Ochser**

Education

2003 – 2007 **PhD in Immunology,** *King's College London, UK*

2001 – 2003 **MSc Medical Immunology,** *University College London, UK*

1998 – 2000 **MSc Human Metabolism,** *University of Aberdeen, UK*

1995 – 1998 **BSc Biomedical Sciences,** *University of Westminster, London, UK*

Employment

2014 – Present **Research Scientist,** *Sapienza University of Rome, IT*

Project: The immune response in Duchenne Muscular Dystrophy

2012 – 2013 **Post-Doctoral Fellow,** *California Institute for Biomedical Research, San Diego, US*

Project: M1 and M2 macrophages in inflammation.

2009 – 2011 **Post-Doctoral Scientist,** *Yale University School of Medicine, New Haven, US*

Department of Pulmonary Medicine

Project: The role of macrophages in lung inflammation.

2007 – 2009 **Post-Doctoral Fellow,** *Kings College London, UK*

Department of Immunobiology

Project: Pancreatic islet endothelial cells and plasmacytoid dendritic cells in Type 1 Diabetes.

Key responsibilities in addition to research:

- Under-graduate and Post-graduate teaching.
- Project supervisor of postgraduate and PhD students.
- Writing manuscripts and paper reviews for publication.
- Oral presentations at international conferences and departmental seminars.
- Organizing and participating in journal clubs.

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Research Skills

Broad range of practical skills in human and mouse immunology including:

- Isolation (cell sort or magnetic beads), culture and in-vitro study of mouse and human cells including: macrophages derived from lung tissue and BAL fluid; peripheral blood monocytes; dendritic cells (myeloid and plasmacytoid); endothelial cells; T cells (effector, memory and regulatory T cells); cells derived from mouse spleen and lymph nodes.
- Extensive experience working with mouse models of lung inflammation and Type 1 Diabetes.
- Multicolour Flow cytometry (surface and intracellular staining).
- Functional assays: T cell proliferation (by CFSE or thymidine incorporation), Cytokine production by ELISPOT, ELISA, LUMINEX or CBA assay.
- Trans-migration and adhesion assays.
- Molecular biology techniques including RT-qPCR.
- Confocal microscopy and immunohistochemistry.
- Assay development and validation.

Awards & Achievements

- Small Project Grant (awarded 2018), Dutch Parent Project.

- Oliver Bird grant (awarded 2009) for my written proposal to study monocyte subsets in Rheumatoid Arthritis.

- JDRF (Juvenile Diabetes Research Foundation) Fellowship Award (2007-2009).

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Research Publications

Peer-reviewed research articles

Fiore P, Benedetti A, Sandonà M, Madaro L, De Bardi M, Saccone V, Puri PL, Gargioli C, **Lozanoska-Ochser B** and Bouché M. Lack of PKCθ promotes regenerative ability of muscle stem cells in chronic muscle injury. January 2020 , Submitted to International Journal of Molecular Sciences.

Rizzo G, Di Maggio R, Benedetti A, Morroni J, Bouche M, and **Lozanoska-Ochser B**. Splenic Ly6C^{hi} monocytes are critical players in dystrophic muscle injury and repair. *JCI Insight* 2019; Epub ahead of print.

Bouchè M, **Lozanoska-Ochser B**, Proietti D, Madaro L. Do neurogenic and cancer-induced muscle atrophy follow common or divergent paths? *Eur J Transl Myol.* 2018, 28 (4): 393-400.

Lozanoska-Ochser B, Benedetti A, Rizzo G, Marrocco V, Di Maggio R, Fiore P, Bouche M.Targeting early PKCθ-dependent T-cell infiltration of dystrophic muscle reduces disease severity in a mouse model of muscular dystrophy. *J Pathol. 2018, 244:323-333*

Marrocco V, Fiore P, Benedetti A, Pisu S, Rizzuto E, Musarò A, Madaro L, **Lozanoska-Ochser B**, Bouché M. Pharmacological Inhibition of PKCθ Counteracts Muscle Disease in a Mouse Model of Duchenne Muscular Dystrophy. *EBioMedicine.* 2017, 16:150-161.

Valeria Marrocco, Piera Fiore, Luca Madaro, Annunziata Crupi, **Biliana Lozanoska-Ochser** and Marina Bouché. Targeting PKC theta in skeletal muscle and muscle diseases: good or bad? *Biochemical Society Transactions. 2014, 42:1550-155*

Lozanoska-Ochser B and Peakman M. Level of MHC class I expression on endothelium in non-obese diabetic mice influences CD8 T cell adhesion and migration. *Clinical and Experimental Immunology.* 2009, 157:119-127.

Lozanoska-Ochser B, Klein NJ, Huang GC, Alvarez RA, Peakman M. Expression of CD86 on human islet endothelial cells facilitates T cell adhesion and migration. *Journal of Immunology.*2008, 181:6109-16.

Lozanoska-Ochser B, Barone F, Pitzalis C, Peakman M. Atorvastatin fails to prevent the development of autoimmune diabetes despite inhibition of pathogenic beta-cell-specific CD8 T-cells. *Diabetes.*2006, 55:1004-10.

Thrower SL, James L, Hall W, Green KM, Arif S, Allen JS, Van-Krinks C, **Lozanoska-Ochser B**, Marquesini L, Brown S, Wong FS, Dayan CM, Peakman M. Proinsulin peptide immunotherapy in type 1 diabetes: report of a first-in-man Phase I safety study. *Clinical and Experimental Immunology*, 2009, 155:156-65.

Allen JS, Pang K, Skowera A, Ellis R, Rackham C, **Lozanoska-Ochser B**, Tree T, Leslie RD, Tremble JM, Dayan CM, Peakman M. Plasmacytoid dendritic cells are proportionally expanded at diagnosis of type 1 diabetes and enhance islet autoantigen presentation to T-cells through immune complex capture. *Diabetes.*2009, 58:138-45.

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Zanone MM, Favaro E, Doublier S, **Lozanoska-Ochser B**, Deregibus MC, Greening J, Huang GC, Klein N, Cavallo Perin P, Peakman M, Camussi G. Expression of nephrin by human pancreatic islet endothelial cells. *Diabetologia.* 2005, 48:1789-97.

Favaro E, Bottelli A, **Lozanoska-Ochser B**, Ferioli E, Huang GC, Klein N, Chiaravalli A, Perin PC, Camussi G, Peakman M, Conaldi PG, ZanoneMM. Primary and immortalised human pancreatic islet endothelial cells: phenotypic and immunological characterisation. *Diabetologia.*2005, 48:2552-62.

Date: 14/01/2020

Biliana Lozanoska-Ochser