ROBERTA MAGLIOZZI CV

Neurology Section of Dept. of Neurological and Movement Sciences
University of Verona
Policlinico G.B. Rossi
P.le L.A. Scuro, 10
37134 - Verona, Italy
Email:rmagliozzi73@gmail.com
Tel: 3404707819

Honorary Research Associate
Wolfson Neuroscience Laboratories,
Imperial College Faculty of Medicine,
Hammersmith Hospital Campus,
Burlington Danes Building,
Du Cane Road,
London W12 0NN, UK
Email: roberta.magliozzi@imperial.ac.uk

Education and qualifications

- September 1993 - July 1999 University "La Sapienza" – Rome, Italy

Laurea degree (Undergraduate Honours Degree), with specialisation in Cell Biology and Neuroscience.

- September 2006- July 2011: PhD-Imperial College London – London, UK

PhD fellowship in Cellular and Molecular Neuroscience.

Grants

- March 2012-February 2014: grant from the Italian Multiple Sclerosis Foundation, FISM 2011/R/23 (63.000,0 Euro): "A combined neuropathological and molecular study addressing the link between meningeal inflammation and cortical brain damage in multiple sclerosis".

- November 2012-February 2016: grant from the Italian Ministry of Health, Young Investigators 2010 GR-2010-2313255 (297.000,0 Euro): "Integration of advanced molecular analyses and magnetic resonance imaging for the identification of biomarkers of disease progression in multiple sclerosis".

- March 2017- : 3 years grant from the Italian Multiple Sclerosis Foundation, FISM 2016/R/23 (80.000,0 Euro): "Structural and inflammatory components of cortical pathology in multiple sclerosis".

Awards

-IV "Marco Vergelli" award from AINI (Italian Association of Neuroimmunology),
Taormina - Italy, 22-25/10/03.
-Best poster presentation at the "Young Scientist Day" of the Imperial College of London,
London-UK, 17-05-06
- Best poster presentation at the "Young Scientist Day" of the Imperial College of London,
London-UK, 28-06-08

Research Activity

- September 1999– August 2006:
Research Fellowship of Italian Foundation of Multiple Sclerosis (FISM) - Dept. of Cell Biology and Neurosciences of the Istituto Superiore di Sanità (Rome-Italy) and Dept. of Cellular and

Molecular Neuroscience of Imperial College London. Research field: “Pathogenic relevance of intrameningeal B-cell follicles in MS patients”.

- September 2006- September 2009:
Full-time PhD fellowship- Dept. of Cellular and Molecular Neuroscience of Imperial College (London-UK): “Molecular mechanisms of cortical pathology in secondary progressive multiple sclerosis”.

-October 2010 - February 2016:
Research Scientist in the Unit of ‘Inflammatory and Demyelinating Diseases of the Nervous System’, Dept. Cell Biology and Neuroscience, Istituto Superiore di Sanità, Rome.

-March 2016-
Research Associate (Tenure track) in the Dept. of Neurosciences of the University of Verona.

Biographical sketch:
My main research interest is to better understand the immunopathological mechanisms involved in multiple sclerosis and in particular in cortical grey matter pathology. I have paid particular attention to the inflammatory response and the role of lymphoid-like structures in the meningeal compartment of post-mortem MS tissues and in the intrathecal inflammation generated in the cerebrospinal fluid analysis of MS patients. This with the main aim to identify possible neuroimmunological mechanisms involved in multiple sclerosis and potential new biomarkers of the different disease phenotypes and of MS progression.

Peer Reviewed Publications (39):
Citations: 3246 total citations by 2029 documents
h-index: 20

1. Magliozzi R, Reynolds R, Calabrese M. MRI of cortical lesions and its use in studying their role in MS pathogenesis and disease course. Brain Pathol. 2018 Jul 18. doi: 10.1111/bpa.12642. PubMed PMID: 30020563.

2. Magliozzi R, Howell OW, Nicholas R, Cruciani C, Castellaro M, Romualdi C, Rossi S, Pitteri M, Benedetti MD, Gajofatto A, Pizzini FB, Montemezzi S, Rasia S, Capra R, Bertoldo A, Facchiano F, Monaco S, Reynolds R, Calabrese M. Inflammatory intrathecal profiles and cortical damage in multiple sclerosis. Ann Neurol. 2018 Mar 8. doi: 10.1002/ana.25197. [Epub ahead of print] PubMed PMID: 29518260.

3. Calabrese M, Magliozzi R, Ciccarelli O, Geurts JJ, Reynolds R, Martin R. Exploring the origins of grey matter damage in multiple sclerosis. Nat Rev Neurosci. 2015 Mar;16(3):147-58. doi: 10.1038/nrn3900. Review. PubMed PMID: 25697158.

4. Magliozzi R, Howell OW, Reeves C, Roncaroli F, Nicholas R, Serafini B, Aloisi F, Reynolds R. A Gradient of neuronal loss and meningeal inflammation in multiple sclerosis. Ann Neurol. 2010 Oct;68(4):477-93. PubMed PMID: 20976767.

5. Aloisi F, Serafini B, Magliozzi R, Howell OW, Reynolds R. Detection of Epstein-Barr virus and B-cell follicles in the multiple sclerosis brain: what you find depends on how and where you look. Brain. 2010 Dec;133(Pt 12):e157. PubMed PMID: 20739348.

6. Serafini B, Severa M, Columba-Cabezas S, Rosicarelli B, Veroni C, Chiappetta G, Magliozzi R, Reynolds R, Coccia EM, Aloisi F. Epstein-Barr virus latent infection and BAFF expression in B cells in the multiple sclerosis brain: implications for viral persistence and intrathecal B-cell activation. J Neuropathol Exp Neurol. 2010 Jul;69(7):677-93. PubMed PMID: 20535037.

7. Amadio S, Montilli C, Magliozzi R, Bernardi G, Reynolds R, Volonté C. P2Y12 receptor protein in cortical gray matter lesions in multiple sclerosis. Cereb Cortex. 2010 Jun;20(6):1263-73. PubMed PMID: 19783848.

8. Serafini B, Magliozzi R, Rosicarelli B, Reynolds R, Zheng TS, Aloisi F. Expression of TWEAK and its receptor Fn14 in the multiple sclerosis brain: implications for inflammatory tissue injury. J Neuropathol Exp Neurol. 2008 Dec;67(12):1137-48. PubMed PMID: 19018248.

9. Aloisi F, Columba-Cabezas S, Franciotta D, Rosicarelli B, Magliozzi R, Reynolds R, Ambrosini E, Coccia E, Salvetti M, Serafini B. Lymphoid chemokines in chronic neuroinflammation. J Neuroimmunol. 2008 Jul 31;198(1-2):106-12. PubMed PMID: 18539341.

10. Serafini B, Rosicarelli B, Franciotta D, Magliozzi R, Reynolds R, Cinque P, Andreoni L, Trivedi P, Salvetti M, Faggioni A, Aloisi F. Dysregulated Epstein-Barr virus infection in the multiple sclerosis brain. J Exp Med. 2007 Nov 26;204(12):2899-912. PubMed Central PMCID: PMC2118531.

11. Magliozzi R, Howell O, Vora A, Serafini B, Nicholas R, Puopolo M, Reynolds R, Aloisi F. Meningeal B-cell follicles in secondary progressive multiple sclerosis associate with early onset of disease and severe cortical pathology. Brain. 2007 Apr;130(Pt 4):1089-104. PubMed PMID: 17438020.

12. Columba-Cabezas S, Griguoli M, Rosicarelli B, Magliozzi R, Ria F, Serafini B, Aloisi F. Suppression of established experimental autoimmune encephalomyelitis and formation of meningeal lymphoid follicles by lymphotoxin beta receptor-Ig fusion protein. J Neuroimmunol. 2006 Oct;179(1-2):76-86. PubMed PMID: 16870269.

13. Serafini B, Rosicarelli B, Magliozzi R, Stigliano E, Capello E, Mancardi GL, Aloisi F. Dendritic cells in multiple sclerosis lesions: maturation stage, myelin uptake, and interaction with proliferating T cells. J Neuropathol Exp Neurol. 2006 Feb;65(2):124-41. PubMed PMID: 16462204.

14. Serafini B, Rosicarelli B, Magliozzi R, Stigliano E, Aloisi F. Detection of ectopic B-cell follicles with germinal centers in the meninges of patients with secondary progressive multiple sclerosis. Brain Pathol. 2004 Apr;14(2):164-74. PubMed PMID: 15193029.

15. Magliozzi R, Columba-Cabezas S, Serafini B, Aloisi F. Intracerebral expression of CXCL13 and BAFF is accompanied by formation of lymphoid follicle-like structures in the meninges

of mice with relapsing experimental autoimmune encephalomyelitis. J Neuroimmunol. 2004 Mar;148(1-2):11-23. PubMed PMID: 14975582.

16. Magliozzi R, Nardacci R, Scarsella G, Di Carlo V, Stefanini S. Effects of the plasticiser DEHP on lung of newborn rats: catalase immunocytochemistry and morphometric analysis. Histochem Cell Biol. 2003 Jul;120(1):41-9. PubMed PMID: 12802597.

17. Aloisi F, Ambrosini E, Columba-Cabezas S, Magliozzi R, Serafini B. Intracerebral regulation of immune responses. Ann Med. 2001 Nov;33(8):510-5. Review. PubMed PMID: 11730157.

Courses

- October 1999:"Internet and the Microscopical Images", SIME (Italian Society of Electronic Microscopy), Modena-Italy, 7-10/10/99.
- September 2000: "Connective tissue", organised by SIME, Modena-Italy, 11-13/09/00.
- October 2000: "Microscopy techniques in the study of cells in colture", Rome-Italy, 23-27/10/00.
- March 2001: "Analysis precision", Rome-Italy, 28/03/01.
- May 2001: "Glial cells from CNS of rodents", Roma-Italy, 7-10/05/01.
- September 2007: "European Society of Neuroimmunolgy (ESNI)" course, Oxford-UK.
- June 2009: workshop: "Clinical trial authorisations and MHRA inspections", London-UK.
- October 2010: "European Society of Neuroimmunolgy (ESNI)" course, Sitges-SP.
- July 2013: "British Neuropathology Society summer school: recent advances in neuropathology and applied neurobiology", Cirecenster (UK).

Technical Knowledge

-Experimental animal manipulation;
-Preparation of murine models of multiple sclerosis: experimental autoimmune encephalomyelitis (EAE);
-Perfusion of EAE affected mice and organ dissection;
-Dissection and preservation of fresh human brain tissue;
-Use of cryostat and paraffin microtome;
-Immunohistochemical and immunofluorescence techniques;
-Lasercapture microdissection from human brain sections and further molecular biology analysis;
- In situ ibridization;
-Confocal microscopy, image computer acquisition and morphometric analysis;
-RNA/DNA/protein extraction from human brain tissues;
-Molecular biology techniques: real-time RT-PCR, Microarray gene array (Illumina platform), Nanodrop, Agilent Bioanalyser;
- Processing and analysis of microarray datagene expression profiling;
- Proteomic analysis of cerebrospinal fluid by Western Blot, ELISA, Dot Blot, Bio-Plex System.

Additional Skills

Languages: Italian Mother Tongue
Good Knowledge of the English Language, both written and spoken.

IT: Good use of Windows (Word, Excel, Photoshop, Internet Explorer, GraphPad PRISM), gene analysis software (Studio-Pathway, Rosetta-Resolver, Ingenuity Pathway) and image analysis systems (Vidas , Image ProPlus, ZEISS KS300).