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Medical doctors license n° 8928, Ordine dei Medici di Padova

Current Position

- Professor of Neurology and Head of the International Centre for Advanced Research in MS at Dept. of Neurological and Biomedical and Movement Sciences, University Hospital Verona
- Member of the Teaching staff council for the PhD in Neuroscience, Psychological and Psychiatric Sciences, University of Verona
- Member of the Teaching staff council for the Resident school in Neurology, University of Verona
- Member of the Teaching staff council for the Resident school in Pediatrics, University of Verona

Highlights

- **118 papers on international peer reviewed journals from 2005 up to now**
- **72 as first or last author or corresponding author**
- **H Index = 42 (ISIWEB)**

Education and Professional Experience:

December 1st 2015 to present:

- Associate Professor of Neurology and head of the International Centre for Advanced Research in MS at Dept. of Neuroscience, Biomedicine and Movement, University Hospital of Verona

January 2013 to present:

- Head of the Advanced Neuroimaging Lab at the Neurology B
Dept. of Neuroscience, Biomedicine and Movement, University Hospital of Verona

January 2008 to december 2012:

- Head of the Advanced Neuroimaging Lab, at the Multiple Sclerosis Center,
Dept. of Neurosciences, University Hospital of Padova

January 2006 to present:

- Outpatient clinic of general neurology
- Outpatient clinic of Multiple Sclerosis and other inflammatory disease of CNS
- Consultant Neurologist at Euganea Medica

July 2004 to July 2005

- Research Fellow at the Neuroimmunology Branch of National Institute of Health in Bethesda, MD,
(Chairman Henry McFarland and Roland Martin)

December 2000 to December 2005:

- Residency in Neurology with honours at Neurology Clinic, Dept. of Neurosciences, University of Padova
- Specialization thesis: "Regional cortical atrophy in Multiple Sclerosis: an MRI study"

July 2000

- Graduated in Medicine with honours at University of Padova

Clinical activity, didactic and research

Research activity:

Evaluation of Grey Matter Pathology in Multiple Sclerosis by a combination of neuropathological (post-mortem), immunological and MRI approach, with especial interest in:

1. Clinical, radiological and immunological (CSF and serum) biomarkers associated to development of GREY MATTER pathology
2. Biomarkers of SILENT DISEASE PROGRESSION
3. Predicting of efficacy of disease modifying drugs based on the clinical, immunological and MRI profile in order to develop e PERSONALIZED THERAPY
4. Study of GENES AND RNA EXPRESSION by microarrays in patients with high inflammatory cortical burden with the purpose to identify genetic markers of cortical pathology.
5. Developing of new MRI sequences to better visualize the SUBPIAL DEMYELINATION AND THE CHRONIC ACTIVE LESIONS

International Clinical Trials based on GCP:

Over the last 15 years, Prof. Calabrese conducted more than 30 international Phase 2 and Phase 3 clinical trials in 12 of which he was the Principal Investigator. There are currently 6 international trials ongoing at the MS center of Verona and Prof Calabrese is the Italian coordinator of the **COMB157G23101**

External Funding

- *International Merck Grant for the project: Exploring the intrathecal anti-inflammatory effect of cladribine and its relationship with clinical efficacy (2019). PROTOCOL CODE: CLAD19; TRIAL PHASE: IV. EudraCT: 2018-004947-21. Euro 237.000.*
- *Young investigator grant from Italian Minister of Health. 2017, Euro 383.000*
Source and code: Italian Ministry of Health, Young Investigator Award n. GR-2013-02355322
Title of project: Longitudinal multi-parametric clinical, CSF and MRI study aimed at predicting disability progression in Multiple Sclerosis
- *First call of International Progressive MS Alliance- July 2014. Euro 75.000*
- *Italian Health Minister, 2014. Progetto 17 – Multiple Sclerosis: Biomarkers and Diagnosis – Unità Operativa 15. Mar 2014, Euro 250.000*

Prizes

- First prize for best 2020 Research Project at 51° congress of SIN (Neurological Italian Society), 28-30 november 2020
- First prize for best Poster Presentation at 31nd Congress of the European Committee for Treatment and Research in Multiple Sclerosis, Barcellona , 2015
- First prize for best Poster presentation at 20° congress of SIN (Neurological Italian Society) in Padova, 16-21 november 2009.

- First prize for best Poster presentation at 18° congress of SIN (Neurological Italian Society) in Florence, 13-17 October 2007.
- First prize for best oral communication in the young session at 22nd Congress of the European Committee for Treatment and Research in Multiple Sclerosis September 27–30, 2006.

Editorial Boards:

- Associate Editor of Diagnostics
- Associate Editor of BMC Neurology journal
- Associate Editor of Neuroimmunology and Neuroinflammation journal

List of five most important publications

1. Magliozzi R, Scalfari A, Pisani AI, Ziccardi S, Marastoni D, Pizzini FB, Bajrami A, Tamanti A, Guandalini M, Bonomi S, Rossi S, Mazziotti V, Castellaro M, Montemezzi S, Rasia S, Capra R, Pitteri M, Romualdi C, Reynolds R, **Calabrese M**. The CSF Profile Linked to Cortical Damage Predicts Multiple Sclerosis Activity. *Ann Neurol*. 2020 May 17. **IF. 9.49**
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 **IF. 9.89**
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. **IF. 31.427**
4. **Calabrese M**, Romualdi C, Poretto V, et al. The changing clinical course of multiple sclerosis: a matter of gray matter. *Ann Neurol*. 2013 Jul;74(1):76-83. **IF. 11.91**
5. **Calabrese M**, Poretto V, Favaretto A, et al P. Cortical lesion load associates with progression of disability in multiple sclerosis. *Brain*. 2012 Oct;135(Pt 10):2952-61. **IF 9.46**

Last Publications in International Peer-Reviewed Journals

1. Crescenzo F, Marastoni D, Pisani AI, Tamanti A, Dapor C, Colombi A, Brillo A, Magliozzi R, Pizzini FB, Castellaro M, Calabrese M. The Prognostic Value of White-Matter Selective Double Inversion Recovery MRI Sequence in Multiple Sclerosis: An Exploratory Study. *Diagnostics (Basel)*. **2021 Apr 12;11(4):686.**
2. Ferraro D, Annovazzi P, Lanzillo R, Calabrese M, Fantozzi R, De Luca G, Cordioli C, Paolicelli D, Ragonese P, Gajofatto A, Lo Fermo S, Cavalla P, Tortorella C, Pesci I, Gallo A, Pinardi F, Di Filippo M, Maniscalco GT, Nociti V, Radaelli M, Tomassini V, Buscarinu MC, Moccia M, Camera V, Cocco E, Gasperini C, Solaro C. A multicenter survey on access to care in Multiple Sclerosis- related trigeminal neuralgia. *J Neurol Sci*. **2021 May 15;424:117430.**
3. Pisani AI, Scalfari A, Crescenzo F, Romualdi C, Calabrese M. A novel prognostic score to assess the risk of progression in relapsing-remitting multiple sclerosis patients. *Eur J Neurol*. **2021 Apr 9.**
4. Pitteri M, Dapor C, Ziccardi S, Guandalini M, Meggiato R, Calabrese M. A Videogame-Based Approach to Measuring Information Processing Speed in Multiple Sclerosis Patients. *Games Health J*. **2021 Apr;10(2):115-120**
5. Ziccardi S, Pitteri M, Genova HM, Calabrese M. Social Cognition in Multiple Sclerosis: A 3-Year Follow-Up MRI and Behavioral Study. *Diagnostics (Basel)*. **2021 Mar 9;11(3):484.**

6. Calabrese M, Marastoni D, Crescenzo F, Scalfari A. Early multiple sclerosis: diagnostic challenges in clinically and radiologically isolated syndrome patients. **Curr Opin Neurol.** 2021 Jun 1;**34(3):277-285**
7. Magliozzi R, Pitteri M, Ziccardi S, Pisani AI, Montibeller L, Marastoni D, Rossi S, Mazziotti V, Guandalini M, Dapor C, Schiavi G, Tamanti A, Nicholas R, Reynolds R, Calabrese M. CSF parvalbumin levels reflect interneuron loss linked with cortical pathology in multiple sclerosis. **Ann Clin Transl Neurol.** 2021 Mar;**8(3):534-547**
8. Sormani MP, De Rossi N, Schiavetti I, Carmisciano L, Cordioli C, Moiola L, Radaelli M, Immovilli P, Capobianco M, Trojano M, Zaratin P, Tedeschi G, Comi G, Battaglia MA, Patti F, Salvetti M; Musc-19 Study Group. Disease-Modifying Therapies and Coronavirus Disease 2019 Severity in Multiple Sclerosis. **Ann Neurol.** 2021 Apr;**89(4):780-789**.
9. Masuccio FG, Gamberini G, Calabrese M, Solaro C. Imaging and depression in multiple sclerosis: a historical perspective. **Neurol Sci.** 2021 Mar;**42(3):835-845**.
10. Castellaro M, Tamanti A, Pisani AI, Pizzini FB, Crescenzo F, Calabrese M. The Use of the Central Vein Sign in the Diagnosis of Multiple Sclerosis: A Systematic Review and Meta-analysis. *Diagnostics (Basel)*. 2020 Nov 29;**10(12):1025**.
11. Pitteri M, Dapor C, Ziccardi S, Guandalini M, Meggiato R, Calabrese M. Visual-Attentional Load Unveils Slowed Processing Speed in Multiple Sclerosis Patients: A Pilot Study with a Tablet-Based Videogame. *Brain Sci.* 2020 Nov 18;**10(11):871**.
12. Magliozzi R, Mazziotti V, Montibeller L, Pisani AI, Marastoni D, Tamanti A, Rossi S, Crescenzo F, Calabrese M. Cerebrospinal Fluid IgM Levels in Association With Inflammatory Pathways in Multiple Sclerosis Patients. *Front Cell Neurosci.* 2020 Oct 16;**14:569827**.
13. Magliozzi R, Marastoni D, Calabrese M. The BAFF / APRIL system as therapeutic target in multiple sclerosis. *Expert Opin Ther Targets.* 2020 Sep 8.
14. Crescenzo F, Marastoni D, Bovo C, Calabrese M. Frequency and severity of COVID-19 in multiple sclerosis: A short single-site report from northern Italy. *Mult Scler Relat Disord.* 2020 Jul 4;**44:102372**.
15. Zanoni M, Orlandi E, Rossetti G, Turatti M, Calabrese M, Gomez Lira M, Gajofatto A. Upregulated serum miR-128-3p in progressive and relapse-free multiple sclerosis patients. *Acta Neurol Scand.* 2020 May 20.
16. Magliozzi R, Scalfari A, Pisani AI, Ziccardi S, Marastoni D, Pizzini FB, Bajrami A, Tamanti A, Guandalini M, Bonomi S, Rossi S, Mazziotti V, Castellaro M, Montemezzi S, Rasia S, Capra R, Pitteri M, Romualdi C, Reynolds R, Calabrese M. The CSF Profile Linked to Cortical Damage Predicts Multiple Sclerosis Activity. *Ann Neurol.* 2020 May 17.
17. Pitteri M, Vannucci M, Ziccardi S, Beccherle M, Semenza C, Calabrese M. False memories in relapsing remitting multiple sclerosis patients: A preliminary investigation with the DRM paradigm. *Mult Scler Relat Disord.* 2020 Jan;**37:101418**.
18. Pitteri M, Dapor C, Pisani AI, Castellaro M, DeLuca J, Chiaravalloti N, Guandalini M, Ziccardi S, Calabrese M. Executive functioning affects verbal learning process in multiple sclerosis patients: Behavioural and imaging results. *J Neuropsychol.* 2019 Nov 30.
19. Magliozzi R, Hametner S, Facchiano F, Marastoni D, Rossi S, Castellaro M, Poli A, Lattanzi F, Visconti A, Nicholas R, Reynolds R, Monaco S, Lassmann H, Calabrese M. Iron homeostasis, complement, and coagulation cascade as CSF signature of cortical lesions in early multiple sclerosis. *Ann Clin Transl Neurol.* 2019 Nov;**6(11):2150-2163**.
20. Magliozzi R, Marastoni D, Rossi S, Castellaro M, Mazziotti V, Pitteri M, Gajofatto A, Monaco S, Benedetti MD, Calabrese M. Increase of CSF inflammatory profile in a case of highly active multiple sclerosis. *BMC Neurol.* 2019 Sep 26;**19(1):231**.
21. Sinnecker T, Clarke MA, Meier D, Enzinger C, Calabrese M, De Stefano N, Pitiot A, Giorgio A, Schoonheim MM, Paul F, Pawlak MA, Schmidt R, Kappos L, Montalban X, Rovira A, Evangelou N, Wuerfel J; MAGNIMS Study Group. Evaluation of the Central Vein Sign as a Diagnostic Imaging Biomarker in Multiple Sclerosis. *JAMA Neurol.* 2019 Dec 1;**76(12):1446-1456**.

22. Marastoni D, Buriani A, Pisani AI, Crescenzo F, Zucco C, Fortinguerra S, Sorrenti V, Marenda B, Romualdi C, Magliozzi R, Monaco S, Calabrese M. Increased NK Cell Count in Multiple Sclerosis Patients Treated With Dimethyl Fumarate: A 2-Year Longitudinal Study. *Front Immunol*. 2019 Jul 19;10:1666.
23. Calabrese M, Gasperini C, Tortorella C, et al "Better explanations" in multiple sclerosis diagnostic workup: A 3-year longitudinal study. *Neurology*. 2019 May 28;92(22):e2527-e2537.
24. M, Ziccardi S, Dapor C, Guandalini M, Calabrese M. Lost in Classification: Lower Cognitive Functioning in Apparently Cognitive Normal Newly Diagnosed RRMS Patients. *Brain Sci*. 2019 Nov 13;9(11):321.
25. Pitteri M, Genova H, Lengenfelder J, DeLuca J, Ziccardi S, Rossi V, Calabrese M. Social cognition deficits and the role of amygdala in relapsing remitting multiple sclerosis patients without cognitive impairment. *Mult Scler Relat Disord*. 2019 Jan 23;29:118-123.
26. 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 Sep;28(5):735-742.
27. Bajrami A, Pitteri M, Castellaro M, Pizzini F, Romualdi C, Montemezzi S, Monaco S, Calabrese M. The effect of fingolimod on focal and diffuse grey matter damage in active MS patients. *J Neurol*. 2018 Jun 25.
28. Amiri H, de Sitter A, Bendfeldt K, Battaglini M, Gandini Wheeler-Kingshott CAM, Calabrese M, Geurts JGG, Rocca MA, Sastre-Garriga J, Enzinger C, de Stefano N, Filippi M, Rovira Á, Barkhof F, Vrenken H; MAGNIMS Study Group. Urgent challenges in quantification and interpretation of brain grey matter atrophy in individual MS patients using MRI. *Neuroimage Clin*. 2018 Apr 26;19:466-475.
29. Calabrese M. Multiple sclerosis and epilepsy: much more than a coincidence. *Eur J Neurol*. 2018 Sep;25(9):1103-1104.
30. Scalfari A, Romualdi C, Nicholas RS, Mattoscio M, Magliozzi R, Morra A, Monaco S, Muraro PA, Calabrese M. The cortical damage, early relapses, and onset of the progressive phase in multiple sclerosis. *Neurology*. 2018 May 16
31. 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
32. Calabrese M, Pitteri M, Farina G, Bajrami A, Castellaro M, Magliozzi R, Monaco S. Dimethyl fumarate: a possible exit strategy from natalizumab treatment in patients with multiple sclerosis at risk for severe adverse events. *J Neurol Neurosurg Psychiatry*. 2017 Dec;88(12):1073-1078.

Publications in Scientific Books

1. The Gray Matter Pathology in Multiple Sclerosis". Calabrese M; Gallo P, Edizioni Publishock 2010);
2. Trattato di Neurologia : 2010 - Malattie Infiammatorie del Sistema Nervoso Centrale. In: Angelini C, Battistin L. *Neurologia Clinica*.

Based on Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali", I authorize the use of my personal data.

Data: October 20th, 2021

