



CURRICULUM VITAE
GABRIELA CONSTANTIN, M.D., Ph.D.

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EDUCATION and APPOINTMENTS

1) **Degree in Medicine and Surgery**, marks 110/110 *cum laude*, November 6, 1991, at the University of Milan, Italy. The title of the graduation thesis was “Expression of NGF receptor in normal muscle and Duchenne dystrophy”.

2) Research and Clinical (neurology) activity (1990-1991) at the Department of Neurology, of "Policlinico Hospital", University of Milan, field of interest: neuroinflammation, demyelinating diseases.

3) Postdoctoral fellow: research activity at the Institute of General Pathology, University of Verona from April 1991 to June 1994. The project was focused on inflammation mechanisms in brain diseases.

4) 1991-1995, **Residency in Neurology** at School of Neurology, Policlinico Hospital, University of Milan. Mentor: Professor Guglielmo Scarlato. During this period, she performed clinical and research activities. Thesis discussion on November 8, 1995. The title of the specialization thesis was: Signal transduction mechanisms controlling lymphocyte migration into the brain”.

5) **Postdoctoral fellow at Dept. of Pathology, Stanford University School of Medicine, USA**, Prof. Eugene Butcher’s lab, from July 1994-Sept. 1997. The research studies were focused on the molecular mechanisms controlling lymphocyte migration under physiological and pathological conditions..

6) 1999-2003 **PhD in Molecular and Cellular Biology and Pathology**, University of Verona. Thesis discussion on January 30, 2004. Title of the graduation thesis: “Molecular mechanisms controlling lymphocyte recruitment in inflamed brain venules: a critical role for P-selectin glycoprotein ligand-1”

7) 2000-2003 Professor of Physiopathology, University of Verona, Italy.

8) 2003-present Professor of General Pathology and Immunology, University of Verona

9) 2010-present Professor of Systems Biology, University of Verona, Course of Bioinformatics & Biotechnology

10) 2006-2014, Assistant Professor of General Pathology, tenure position, University of Verona, Italy.

11) 2014-2016, Associate Professor of General Pathology and Immunology, University of Verona, Italy.

12) January 2017-present, **Full Professor of General Pathology and Immunology, University of Verona, Italy.**

13) from January 2016 **Director of the PhD program in Inflammation, Immunity and Cancer at the University of Verona.**

AWARDS AND FELLOWSHIPS

1) “De Vizart” Award, 1993, for research activity of young medical graduates, University of Milan. The research awarded was on the proinflammatory functions induced in human phagocytes by myelin proteins.

2) **Fellowship from National Multiple Sclerosis Society, New York, USA**, July 1995-June 1997 for studies regarding the mechanisms controlling lymphocyte trafficking into the brain.

3) Senior Fellowship from Federazione Italiana Sclerosi Multipla, Genova, Italy, from April 1998-March 2000 for studies regarding the mechanisms controlling lymphocyte trafficking into the brain.

4) **Award (First Prize) for Young (under 35) Multiple Sclerosis Investigators, from European Charcot Foundation**, Lausanne, Switzerland, March 28, 2000.

5) 2003, **Rita Levi Montalcini Award** for best 2003 Multiple Sclerosis Research by young investigators in Italy.

6) 2007, award from the Multiple Sclerosis International Federation, London, UK.

7) 2012, **Nominated by the European Research Council (ERC) as "outstanding female scientist"**.

MEMBERSHIP OF SCIENTIFIC SOCIETIES AND BOARDS

2000-present Member of the Italian Society of Neuroimmunology (AINI)

2001-present Member of the Italian Society of Immunology and Allergology

2002-present Member of the American Association of Immunologists (AAI), USA

2006-2009 Member of the Directive Council of the Italian Association of Neuroimmunology (AINI)

2006-present Member of the H. Kunkel Society, New York, USA

2011-2016 Member of the Scientific Board of Fondazione Italiana Sclerosi Multipla (FISM) for grant evaluation

2018-present Member of the Scientific Board of Fondazione Italiana Sclerosi Multipla (FISM) for grant evaluation

2014-present Member of Alzheimer’s Association International Society to Advance Alzheimer’s Research and Treatment (ISTAART)

COMMISSIONS OF TRUST (selection)

- 2006-2009 Member of the Directive Council of the Italian Association of Neuroimmunology (AINI)
- 2011-2016 Member of the Scientific Board of Fondazione Italiana Sclerosi Multipla (FISM)
- 2010-present Member of the Ethical Committee for the usage of laboratory animals at the University of Verona
- 2014-present Member of the editorial board of Scientific Reports (Nature Group) and PeerJ journal.
- 2017-present Member of the Scientific Board of the Norway Research Council (panel Neuroscience)
- 2018-present Member of the Executive Board of the International Society of Neuroimmunology (ISNI)
- 2018-present Member of the Scientific Board of Fondazione Italiana Sclerosi Multipla (FISM)
- 2019-present Member of the Directive Council of the Italian Association of Neuroimmunology (AINI)
- 2019 Member of the international panel for the evaluation of the excellence criteria of German Universities for the German Council of Science and Humanities
- 2019 Member of the Governance team (co-deputy for Research), University of Verona from October 2019

PATENTS

- Inhibition of Autoimmune Inflammatory Disease by a Kinase Inhibitor

1998, Stanford University, USA

Stanford Docket Number = S97-181

G. Constantin: Inventor

Present status: expired

- Indole and azaindole for the treatment of inflammatory and autoimmune diseases

Application No./Patent No.: 06819177.4 – 1216 PCT/EP2006067889

Filing date: 27.10.2006

PRIORITY: EP/28.10.05/EPA 05110149

G. Constantin: Inventor

Present status: full application

- V-ATP-ase inhibitors for use in the treatment of septic shock

Application No./Patent No.: 06819178.2 – 1216 PCT/EP2006067890

Filing date: 27.10.2006

PRIORITY: EP/28.10.05/EPA 05110163

G. Constantin: Inventor

Status: full application

- Anti-leukocyte recruitment therapy for the treatment of seizures and epilepsy

Application No./Patent No.: 07809438.0 – 1222 PCT/US2007013624

Filing date: 06.06.2007

PRIORITY: US/07.06.06/ USP 811873G. Constantin: Inventor

Status: full application

- Modulation of leukocyte activity in treatment of neuroinflammatory degenerative diseases

Application No./Patent USA: 61886562

Filing date: 03.10.2013

G. Constantin: Inventor

Status: full application

- Blockade of Tim-1 Pathways and P-Selectin Pathways in Treatment of Neuroinflammatory Degenerative Disease

U.S. Application Serial No. 62/334,986

Filing date: 21.06.2016

G. Constantin: Inventor

Status: full application

COMPANY ACTIVITIES

In 2010 **Dr. Constantin was awarded with 988.000 Euro from the Italian Ministry of Education, University and Research (MIUR) for a project aimed to create a university spinoff (Veneto Pharma)**. Project title: Alpha4beta1 integrin antagonists for the treatment of epilepsy and autoimmune diseases.

Dr. Constantin collaborated or is presently collaborating with several companies including: GlycoMimetics Inc, Gaithersburg, MD USA, Micromet AG, Munich, Germany, Astrazeneca R&D, Mölndal, Sweden, ONO Pharmaceutical Japan, Nikem Research Milan, Italy, Biogen Idec USA, Amgen, Thousand Oaks, CA, USA, Vifor/OM Pharma Pharma, Switzerland, CLS Therapeutics, UK.

In 2014 Dr. Constantin co-founded Leuvas Therapeutics (Mountain View CA, USA), a company focused on new therapeutic approaches for brain inflammatory diseases based on modulation of leukocyte trafficking.

CONGRESS ORGANIZATION AND INVITED PRESENTATIONS (SELECTION)

Organization of meetings:

1. Organizer, International meeting “New insights into immunosuppression and treatment of autoimmune diseases”, Verona, November 3, 2006; sponsor Miltenyi Biotec.
2. Organizer, 17th meeting of the Italian Neuroimmunology Association (AINI), Verona Sept. 30-Oct 3, 2007.

Invited presentations (selection):

1. Invited speaker, Royal Society of Medicine (London UK), “Signal transduction pathways in chronic inflammation” meeting, December 2000.
2. Invited lecturer, "Spatial And Temporal Dynamics Of Immune Responses" course, International PhD School, San Raffaele Hospital, Milan. Title presentation: “Tracing leukocyte recruitment in vivo”, June 2005.
3. Invited speaker at the international meeting on “Chemokines and Chemokine receptors in the nervous system” Rome, October 27, 2007.
4. “Keystone Leukocyte trafficking” meeting, Keystone, Colorado, Jan. 13-18, 2008: i) invited speaker, title of the presentation: “Anti-leukocyte recruitment treatment for the prevention and therapy of epilepsy”; ii) chairman and keynote speaker for the session “Preclinical and Clinical Anti-Adhesion and Anti-Chemokine Therapy”.
5. Invited speaker, Annual H. Kunkel Society meeting Rockefeller University, April 22-25, 2009.
6. Key note speaker, “Endo-Neuro-Psycho” meeting, Doorwerth, The Netherlands, June 3-5, 2009.
7. Invited speaker at the 10th International Congress of Neuroimmunology, Barcelona, October 26-30, 2010. Presentation title: A role for leukocyte trafficking mechanisms in the pathogenesis of epilepsy.
8. Invited speaker at the 8th IBRO world congress of Neuroscience, Florence, July 14-18, 2011. Presentation title: "A role for mucins in leukocyte trafficking in neurological diseases".

9. Invited Speaker at the Chemokines and Leukocyte Trafficking in Homeostasis and Inflammation meeting, Keystone Symposia, Breckenridge January 8-13 2012. Presentation title: "New Insights into leukocyte trafficking in CNS diseases".
10. Invited speaker and chairman of the session "Preclinical Therapeutics II: Novel Approaches" at the Alzheimer's Association International Conference (AAIC), Copenhagen, Denmark, July 12-17, 2014. Title presentation: "Neutrophils induce Alzheimer's-like disease via LFA-1-integrin and NETs".
11. Invited speaker at the International congress on Neuroimmunology and Therapeutics, July 20-22, 2015 San Francisco, USA. Title presentation: "Neutrophils induce Alzheimer's disease-like pathology and cognitive decline via a mechanism dependent on LFA-1 integrin".
12. Invited speaker, November 28, 2012, seminar at the Institute of Pharmaceutical Sciences, Department of Chemistry and Applied Biosciences, ETH Zurich, Switzerland. Presentation title: "New insights into leukocyte trafficking in the central nervous system diseases".
13. Invited speaker, Congress "Gut feeling & Gut Thoughts: The effect of gut bacteria on the brain, Alzheimer's and brain amiloidosis", Ginevra, Swizzera, November 3rd, 2015. Presentation title: "A role for neutrophils in Alzheimer's disease".
14. Invited speaker, March 13, 2015, seminar at the University of Milan, Science Department of Pharmacological and Biomolecular Sciences. Presentation title: "Neutrophils induce Alzheimer's disease-like pathology and cognitive decline via a mechanism dependent on LFA-1 integrin".
15. Invited speaker, March 21, 2016, seminar, Kennedy Institute of Rheumatology, University of Oxford. Presentation title: "A role for neutrophils in Alzheimer's disease".
16. Invited speaker, March 23, 2016, seminar aty the University of Cambridge, Department of Clinical Neurosciences and John van Geest Centre for Brain Repair. Presentation title: "Neutrophils: key players in the pathogenesis of Alzheimer's disease".
17. Invited speaker Plenary Session, July 22 – 28, 2016, Alzheimer's Association International Conference (AAIC) 2016, Toronto, Canada. AAIC. Presentation title: "Role of peripheral inflammation in cognitive impairment and Alzheimer's disease".
18. Invited speaker, March 14, 2017 seminar at the University of Bonn, Immune Sensation Cluster, Germany, Presentation title: "A role for leukocyte trafficking in Alzheimer's disease".
19. Invited speaker, May 22, 2017 seminar at the Queen Mary's School of Medicine and Dentistry, London, UK. Presentation title: " A role for leukocyte trafficking in Alzheimer's disease".
21. Invited speaker, October 26, 2017 seminar at the University of Zurich, Switzerland. Presentation title: "Molecular mechanisms of leukocyte trafficking in Alzheimer's disease".
22. Invited speaker, Presentation title: "A role for leukocyte trafficking in Alzheimer's disease", Congress of the Italian Society of Immunology, Clinical Immunology and Allergology (SIICA), Bari, May 28-31, 2017.
23. Invited speaker, Presentation title: "Linking the basis of neurodegenerative diseases: from para-inflammation to autoimmunity", XXVII AINI Congress, Trieste, May 7-10, 2018.
24. Invited speaker, March 14, 2017 seminar at the University of Bonn, Immune Sensation Cluster, Germany, Presentation title: "A role for leukocyte trafficking in Alzheimer's disease".
25. Invited speaker, presentation title: "A role for neutrophils in Alzheimer's disease", IV Venusberg meeting, Bonn, Germany, May 9-11, 2019.

FUNDING ID

Summary: Dr. Constantin's projects were financed or are currently funded by national and international agencies including the **European Research Council (ERC) (Projects ERC starting NEUROTRAFFICKING, Proof of Concept IMPEDE and ERC Advanced IMMUNOALZHEIMER)**, **National Multiple Sclerosis Society (NMSS) NY, USA**, **Alzheimer's Drug Discovery Foundation (ADDF) USA**, **Fondazione Italiana Sclerosi Multipla (FISM), Genoa, Italy**, **Cariverona Foundation**, and the **Italian Ministry of Education and Reserach (MIUR)**.

SELECTION of GRANTS:

- During 1996 - 2004 dr. Constantin (assegnista di ricerca) obtained the following funds for a total of 610.000 Euro: 1 Progetto Sclerosi Multipla from the Istituto Superiore di Sanità and renewal; 1 “Progetto Strategico” from the CNR; 3 projects (two-year duration each) of “Ricerca finalizzata”, Ministero della Sanità; PI Unità operativa in 2 projects from the Fondazione Italiana Sclerosi Multipla (FISM), Genova, Italy; 2 projects funded by the Fondazione Cariverona; 1 three year project FIRB-MIUR postgenoma; subcontractor in 1 project of the National Multiple Sclerosis Society, New York, USA.

- During 2004 - 2010 dr. Constantin obtained as PI obtained the following funds for a total of 3.230.859 Euro:

- **1 European Research Council (ERC) Starting grant, Acronym NEUROTRAFFICKING, grant agreement nr. 261079, LS6 sector to study the mechanisms controlling leukocyte migration into the inflamed central nervous system in experimental models of multiple sclerosis and epilepsy; Project duration: 4 years. Project title: “Molecular mechanisms controlling leukocyte trafficking in the central nervous system”. Total amount: 1.200.000 Euro.**

- 3 prestigious international projects (two-year duration each) funded by the National Multiple Sclerosis Society, New York, USA (approx. 150,000 USD each);

- 3 projects (duration 1-2 years each) funded by the Fondazione Italiana Sclerosi Multipla (FISM);

- 1 project funded by the Multiple Sclerosis International Federation; London UK;

- Dr. Constantin also coordinated one project funded by the Fondazione Cariverona;

- PI in 2 other projects funded by the Fondazione Cariverona;

- PI Unità operativa in one PRIN project in 2008. Title: Il reclutamento leucocitario: meccanismi e aspetti patologici;

- She also obtained one Joint Project from the Università degli Studi di Verona in collaboration with Nikem Research company from Milano.

- In 2009 she received “positive evaluation” for an EU project, cooperation programme, title "In and out blood-brain barrier endothelia", Acronym 3B PASSPORT, Cooperation, Call FP7-HEALTH-2009-2.2.1-4. For this project Dr. Constantin was coordinator. The project was not funded for “lack of funds”.

- In 2010 dr. Constantin obtained (as project presenter and PI) **from MIUR 988.000 Euro to create the first spinoff of the Faculty of Medicine, University of Verona.**

- **In 2015 Prof. Constantin obtained one grant from the European Research Council (ERC) “Proof of Concept” type of project, period 2016-2017, acronym IMPEDE grant agreement nr. 69256.**

**Project title: Immunomodulatory effects of sustained pantethine release in inflammatory diseases
Amount: 150.000 Euro.**

- In 2015 la Prof. Constantin also obtained one grant from the National Multiple Sclerosis Society, New York, USA. Project duration: 2 years. Project title: "The role of neutrophil trafficking mechanisms in the pathogenesis of animal models of multiple sclerosis". Role in the project: PI.
Amount: 148.000 \$ USA.

- In 2015 la Prof. Constantin obtained one grant from the Alzheimer Drug Discovery Foundation (ADDF), USA. Project title: "Inhibiting Neutrophil Extracellular Trap (NET) formation as a novel therapeutic approach to Alzheimer’s disease”. Role in the project: Co-PI.
Amount: 150.000 \$ USA.

- In 2016 Prof. Constantin obtained an ERC advanced grant for the period 2016-2021 (grant agreement nr. 695714), acronym IMMUNOALZHEIMER.

Project title: The role of immune cells in Alzheimer's disease

Amount: 2.500.000 Euro.

RESEARCH ACTIVITY (brief summary)

Starting as an undergraduate student and then as a graduated medical doctor, Dr. Constantin carried out studies on the effect of myelin components on the proinflammatory functions exerted by human phagocytes at the University of Verona and University of Milan, Italy.

Following her research career and her interests in the pathogenesis of inflammatory diseases, Dr. Constantin spent a period in Prof. Eugene Butcher's lab at Dept. of Pathology, Stanford University School of Medicine. During this postdoc period her research was focused on the mechanisms involved in leukocyte trafficking under physiological and pathological conditions.

Dr. Constantin set up an intravital microscopy laboratory to study leukocyte, cancer and stem cell interaction with brain endothelium in brain, spinal cord, dermal, muscle and lymphoid microvessels with epifluorescence microscopy or two-photon laser scanning microscopy. Particularly, her group identified key molecular mechanisms controlling the recruitment of leukocyte subpopulations in brain postcapillary venules in CNS diseases (*J. Immunol.*, 2002; *Blood*, 2003; *J. Immunol.* 2005; *Nat. Med.* 2008; *Immunity* 2014). Dr. Constantin is also involved in studies aimed to identify the signal transduction pathways and the modalities of integrin activation controlling lymphocyte homing and recruitment during physiological conditions and during brain inflammation (*Immunity*, 2000; *Immunity* 2004; *Nat. Immunol.* 2009). She also collaborated for projects studying the mechanisms of stem cell migration into the dystrophic muscle and in the inflamed brain in mice with experimental autoimmune encephalomyelitis (*J. Cell Biol.* 2001; 2003; *Nature* 2005; *Blood* 2006; *J. Cell Biol.* 2006; *Tissue Eng* 2009).

Dr. Constantin's main current interest is focused on the fundamental aspects of innate and adaptive immune cell function, with an emphasis on the trafficking of leukocytes during autoimmune and inflammatory diseases of the central nervous system (CNS). Her group employs molecular and genetic approaches and intravital microscopy techniques combined with other experimental methodologies to study the migration, cell-cell interactions and function of immune cells in living animals (*Nat. Med.* 2008; *BMC Neurology* 2010; *J Leuk Biol.*, 2011; *Nat Immunol.*, 2011; *Immunity* 2014; *Nat. Med.* 2015).

Dr. Constantin is presently collaborating with mathematicians, physicians, and informaticians in order to better analyze the mechanisms of blood cell recruitment under inflammatory conditions using systems biology approaches.

As a neuroimmunologist, Dr. Constantin is aiming to identify new therapeutic targets and approaches for CNS diseases in which inflammation mechanisms have a detrimental role.

MAJOR RESEARCH AREAS

1. Study of the role of circulating leukocytes and vascular inflammation in cognitive impairment and Alzheimer's disease
2. Analysis and modeling of immune cell trafficking during autoimmune and inflammatory diseases
3. Identification of the molecular mechanisms controlling leukocyte trafficking in animal models of multiple sclerosis
4. Analysis of immune cell function during autoimmune and inflammatory responses using systems biology approaches

PUBLICATIONS

1) Baron P., **G. Constantin**, A. D'Andrea, D. Ponzin, E. Scarpini, G. Scarlato, G. Trinchieri, F. Rossi and M. Cassatella.

Production of tumor necrosis factor and other proinflammatory cytokines in human mononuclear phagocytes stimulated with myelin P2 protein.

Proc. Natl. Acad. Sci. USA, 90:4414-4418, 1993.

2) Cassatella M.A., M. Aste, F. Calzetti, **G. Constantin**, M. Ceska and F. Rossi. Studies on the regulatory mechanisms of Interleukin-8 gene expression in resting and IFN-gamma-treated neutrophils: evidence on the capability of staurosporine of inducing the production of Interleukin-8 by human neutrophils

Biochem. Biophys. Res. Commun. 190:660-667, 1993.

3) Cassatella M.A., L. Meda, S. Bonora, M. Ceska, and **Constantin G.**

Interleukin 10 inhibits the release of proinflammatory cytokines from human polymorphonuclear leukocytes. Evidence for an autocrine role of TNF and IL-10 in mediating the production of IL-8 triggered by lipopolysaccharide.

J. Exp. Med. 178:170-175, 1993.

4) Laudanna C., **Constantin G.**, P. Baron, E. Scarpini, G. Scarlato, G. Cabrini, M.A. Cassatella F. Rossi and G. Berton.

Sulfatides trigger increase of cytosolic free calcium, and enhanced expression of tumor necrosis factor- α , and interleukin-8 mRNAs in human neutrophils. Evidence for a role of L-selectin as a signaling molecule.

J. Biol Chem. 269:4021-4026, 1994.

5) **Constantin G.**, C. Laudanna, P. Baron, and G. Berton.

Sulfatides trigger cytokine genes expression and protein secretion in human monocytes

FEBS letters 350:66-70, 1994.

6) Baron P, **Constantin G.**, L. Meda, E. Scarpini, G. Scarlato, G. Trinchieri, G. Monasta, F. Rossi, M.A. Cassatella.

Cultured human monocytes release proinflammatory cytokines in response to myelin basic protein

Neurosci. Letters, 252:151, 1998.

7) **Constantin G.**, C. Laudanna and E. Butcher.

Novel method for following lymphocyte traffic in mice using [3H]-glycerol labelling

J. Immunol. Meth., 203:35, 1997.

8) **Constantin G.**, S. Brocke, A. Izikson, C. Laudanna, E. Butcher.

Tyrphostin AG490, a tyrosine kinase inhibitor, blocks actively-induced experimental allergic encephalomyelitis.

Eur. J. Immunol., 28:3523-3529, 1998.

9) **Constantin G.**, C. Laudanna, S. Brocke, E. Butcher.

Inhibition of experimental autoimmune encephalomyelitis by a tyrosine kinase inhibitor.

J. Immunol., 162:1144-1149, 1999.

10) C. Laudanna, D. Mochly-Rosen, T. Lion, **G. Constantin**, E. Butcher.

Evidence of zeta protein kinase C involvement in polymorphonuclear neutrophil in integrin-dependent adhesion and chemotaxis.

J. Biol. Chem., 273:30306-30315, 1998.

11) **Constantin G.**, L Piccio, Bussini S, Pizzuti A., E. Scarpini, P. Baron, G. Conti, S. Pizzul, G. Scarlato. Induction of adhesion molecules on human Schwann cells, an immunofluorescence study.

J. Neurol. Sci., 170:124-130, 1999.

- 12) **Constantin G.**, M. Majeed, C. Giagulli, L. Piccio, J. Y. Kim, and C. Laudanna. Chemokines trigger immediate beta2 Integrin affinity and mobility Changes: differential regulation and roles in lymphocyte arrest under flow
Immunity, 16:759-769, 2000.
- 13) Y. Torrente, J.P. Tremblay, F. Pisati, M. Belicchi, B. Rossi, M. Sironi, **G. Constantin**, M. El Fhaime, M.G. D'Angelo, N. Caron, D. Paulin, G. Scarlato and N. Bresolin. Intraarterial injection of muscle-derived CD34+ SCA-1+ stem cells restore dystrophin in *mdx* mouse.
J. Cell Biology, 152(2):335-48, 2001.
- 14) Molecular mechanisms involved in lymphocyte recruitment in brain microcirculation: critical roles for PSGL-1 and trimeric Galphai linked receptors
Piccio L., Rossi B., Scarpini E., Giagulli C, Laudanna C., Issekutz A., Vestweber D., Butcher E., **Constantin G.**
J. Immunol., 168(4):1940-1949, 2002.
- 15) Laudanna C., Kim Y., **Constantin G.**, Butcher E. Rapid integrin activation by chemokines.
Immunol. Rev. 186: 37-46, 2002.
- 16) Laudanna C. and **Constantin G.** New models of intravital microscopy for analysis of chemokine receptor-mediated leukocyte vascular recognition.
J. Immunol. Methods, 273(1-2):115-123, 2003.
- 17) Battistini L., Piccio L., Rossi B., Bach S., Galgani S., Gasperini C., Ottoboni L., Ciabini D., Caramia D., Bernardi G., Laudanna C., Scarpini E., Borsellino G. and **Constantin G.** CD8+ lymphocytes from acute multiple sclerosis patients display selective increase of adhesiveness in brain venules: a critical role for P-selectin-glycoprotein ligand-1.
Blood, 101(12):4775-82, 2003.
- 18) Torrente Y., G. Camirand, F. Pisati, M. Belicchi, B. Rossi, F. Colombo, M. El Fahime, N. J. Caron, **G. Constantin**, J. P. Tremblay , N. Bresolin Identification of a putative pathway for the muscle homing of the stem cells in a muscular dystrophy model
J. Cell. Biol., 162(3): 511-20, 2003.
- 19) Giagulli C., Scarpini E., Ottoboni L., **Constantin G.**, Laudanna C Rho A and α PKC control distinct modalities of LFA-1 activation by chemokines: critical role of LFA-1 affinity triggering in lymphocyte in vivo homing.
Immunity 20: 1-20, 2004.
- 20) Di Gennaro A, Carnini C, Buccellati C, Ballerio R, Zarini S., Fumagalli F, Viappiani S, Librizzi L., Hernandez A., Murphy R.C., **Constantin G.**, de Curtis M., Folco G., and Sala A. Cysteinyl-leukotrienes receptor activation in brain inflammatory reactions and cerebral edema formation: a role for transcellular biosynthesis of cysteinyl-leukotrienes.
FASEB J., 18(7):842-4., 2004.
- 21) D'Ambrosio D., Lecca P., **Constantin G.**, Priami C., and Laudanna C. Concurrency in leukocyte recruitment: the way to a predictive computer modelling.
Trends in Immunol., Aug;25(8):411-6, 2004.
- 22) Colantonio L., Rossi B., **Constantin G.**, D'Ambrosio D. Integration and independent acquisition of specialized skin- versus gut-homing and Th1 versus Th2 cytokine synthesis phenotypes in human CD4+ T cells.
Eur. J. Immunol, 2004 Sep;34(9):2419-29.
- 23) **Constantin G.** P-Selectin Glycoprotein ligand-1 as a new therapeutic target.

Drug News Perspect., 17(9):579-586, 2004.

24) Lecca P, Priami C, Laudanna C, **Constantin G**.
A BioSpi model of lymphocyte-endothelial interactions in inflamed brain venules.
Pac Symp Biocomput, 521-532, 2004.
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www-smi.stanford.edu/projects/helix/psb04/lecca.pdf

25) Lecca P., Priami C., Laudanna C., **Constantin G**.
Predicting cell adhesion probability via the biochemical stochastic p-calculus.
Proceedings of the 19th Annual ACM Symposium on Applied Computing, March 2004, 211-212.
<http://portal.acm.org/citation.cfm?doi=967900.967944>
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J. Immunol. 2005 May 1;174(9):5805-13.

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immunomodulatory mechanism
Nature, 2005 Jul 14;436(7048):266-71.

29) Giagulli C, Ottoboni L, Cavegion E, Lowell C, Rossi B, **Constantin G**, Laudanna C, Berton G
The Src family kinases Hck and Fgr are dispensable for inside-out, chemoattractant-induced signaling
regulating beta2 integrin affinity and valency in neutrophils, but are required for beta2 integrin-mediated
outside-in signaling involved in sustained adhesion.
J. Immunol. 2006; 2006 Jul 1;177(1):604-11.

30) Galvez BG, Sampaolesi M, Brunelli S, Covarello D, Gavina M, Rossi B, **Constantin G**, Torrente Y,
Cossu G.
Complete repair of dystrophic skeletal muscle by mesoangioblasts with enhanced migration ability.
J Cell Biol. 2006 Jul 17;174(2):231-43.
Erratum in: *J Cell Biol.* 2006 Oct 23;175(2):361. Costantin, Gabriela [corrected to Constantin, Gabriela].

31) Gavina M, Belicchi M, Rossi B, Ottoboni L, Colombo F, Meregalli M, Battistelli M, Forzenigo L,
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blood-derived CD133+ stem cells after intra-arterial transplantation
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32) Farini A, Meregalli M, Belicchi M, Battistelli M, Parolini D, D'Antona G, Gavina M, Ottoboni L,
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fibrosis of dystrophic skeletal muscles in the scid/mdx mouse.
J Pathol. 2007 Oct;213(2):229-38.

33) **Constantin G**. Chemokine signaling and integrin activation in lymphocyte migration into the
inflamed brain.
J. Neuroimmunol. 2008 Jul 31;198(1-2):20-6.

34) Rossi B and **Constantin G**. Anti-Selectin Therapy for the Treatment of Inflammatory Diseases. *Inflamm. Allergy Drug Targets*. 2008 Jun;7(2):85-93.

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BOOK CHAPTERS

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In fede,



Gabriela Constantin

Curriculum Vitae Europass

Informazioni personali

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Cittadinanza Italiana

Luogo e Data di nascita Verona, 5 luglio 1963

Codice fiscale BNTBRN63L05L781Q

Sesso M

Occupazione attuale/
Settore professionale Direttore UOC di Neurologia, Azienda Ospedaliera Universitaria Integrata di Verona

Esperienza professionale

Date 1/12/1993-30/12/2004

Lavoro o posizione ricoperti Dirigente Medico di I° livello,
Principali attività e responsabilità Attività di reparto, ambulatoriale e servizio di guardia diurno e notturno
Nome e indirizzo del datore di lavoro Azienda Ospedaliera di Verona, P. le Stefani, Verona

Date 30/12/2004-30/09/2015

Lavoro o posizione ricoperti Professore Associato in Neurologia
Principali attività e responsabilità 2005-2008: Incarico di Alta Specializzazione: Neuroimmunologia Clinica
2008-2015: Responsabile di Struttura Semplice Funzionale: Neurooncologia e Neuroimmunologia Clinica
Nome e indirizzo del datore di lavoro Università di Verona, V. dell'Artigliere, Verona

Date 01/10/2015-01/05/2017

Lavoro o posizione ricoperti Direttore di Unità Operativa Complessa di Neurologia, Ospedale di Bolzano
Principali attività e responsabilità Direttore

Nome e indirizzo del datore di lavoro Azienda Ospedaliera dell'Alto Adige

Date 01/05/2017 - oggi

Lavoro o posizione ricoperti
Principali attività e responsabilità | Direttore di Unità Operativa Complessa di Neurologia,
Direttore

Nome e indirizzo del datore di lavoro | Azienda Ospedaliera Universitaria Integrata di Verona

Data | 1988

Titolo della qualifica rilasciata | Laurea in Medicina e Chirurgia
Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione | Università di Verona

Data | 1992
Titolo della qualifica rilasciata | Diploma di Specializzazione in Neurologia
Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione | Università di Verona

Data | 1996
Titolo della qualifica rilasciata | Diploma di Dottorato di Ricerca in Scienze Neurologiche
Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione | Università di Verona

Capacità e competenze personali

Madrelingua(e) | Precisare madrelingua(e): Italiana

Altra(e) lingua(e) | Inglese

Autovalutazione

Livello europeo

Lingua

Comprensione		Parlato		Scritto			
Ascolto		Lettura		Interazione orale		Produzione orale	
	good		good		good		good

Capacità e competenze organizzative

Il Dott. Bonetti ha svolto sino al 2015 la sua attività di reparto presso la Neurologia B dell'AOUI di Verona in maniera autonoma, con il supporto di due Specializzandi, di cui ne ha coordinato l'attività per la gestione quotidiana diagnostico-terapeutica dei pazienti ricoverati da lui seguiti.

Nel 2008 il Dott. Bonetti è stato tra i promotori del Gruppo Neuro-oncologico di Verona, a cui attualmente afferiscono i colleghi Neurochirurghi, Radioterapisti, Psicologi, Oncologi, Neuroradiologi e Anatomico-patologi.

Da ottobre 2015 a maggio 2017 il Dott. Bonetti ha rivestito il ruolo di Direttore della UOC di Neurologia presso l'Ospedale di Bolzano.

In tale periodo egli ha gestito la organizzazione dell'attività del Reparto (20 posti letto di ricovero ordinario, 4 di DH) e l'attività ambulatoriale (circa 30.000 visite, consulenze e prestazioni all'anno).

Inoltre, egli ha gestito e organizzato il trasferimento dell'UOS di Stroke Unit dalla Medicina (dove era allocata da circa 10 anni) all'interno della UOC di Neurologia, organizzando la formazione reciproca dei Colleghi Neurologi operanti nelle due Unità. Sempre in tale periodo, ha organizzato il servizio di guardia attiva presso la UOC di Neurologia di Bolzano (in precedenza era attivo il solo servizio di reperibilità).

La UOC di Neurologia dell'Ospedale di Bolzano è così diventata il Centro neurologico di riferimento provinciale per le patologie acute, ove è presente una Stroke Unit di 2° livello (si effettuano circa 120 trombolisi sistemiche/anno e circa 40 trombectomie endovascolari/anno).

Inoltre la UOC di Bolzano è il Centro di riferimento provinciale anche per l'Ambulatorio dei Disturbi del Movimento e quello delle malattie demielinizzanti, dove si effettuano terapie immunosoppressive di 2° e 3° linea.

Dal 1 maggio 2017 il Dott. Bonetti è Direttore dell'UOC Neurologia A e Direttore facente funzioni dell'USD Stroke Unit dell'Azienda Ospedaliera Universitaria Integrata di Verona.

Capacità e competenze assistenziali

Il Dott. Bonetti ha svolto sin dall'inizio della sua attività lavorativa mansioni clinico-assistenziali presso la Clinica Neurologica (Prof. Nicolò Rizzuto e Prof. Antonio Fiaschi) dell'Azienda Ospedaliera di Verona e nell'ultimo anno presso la UOC di Neurologia di Bolzano. In questi anni il Dott. Bonetti ha svolto in piena autonomia attività di reparto e di ambulatoriale divisionale, oltre al servizio di guardia diurno e notturno (60-70 turni/anno). In ambedue le Sedi, l'attività assistenziale di reparto è rivolta a pazienti ricoverati in regime di degenza ordinaria: circa 150 pazienti all'anno (degenza media di 7 giorni) provenienti sia dal Pronto Soccorso che come ricoveri programmati. Si tratta quindi di pazienti affetti dalle più comuni patologie neurologiche (malattie cerebro-vascolari, neuro-degenerative e infiammatorie), ma anche da patologie meno comuni che afferiscono all'unità per consulenza e/o secondo parere. In particolare, il Dott. Bonetti si occupa dei risvolti clinico-terapeutici di patologie neuroimmunologiche (sclerosi multipla e poliradicolonevriti) e tumorali (glioblastoma e tumori cerebrali di basso grado). In questi anni ha raggiunto una piena autonomia gestionale per la maggior parte delle patologie neurologiche acute e croniche sia da un punto di vista diagnostico che terapeutico.

Dal 2008 al 2015 il Dott. Bonetti è stato Responsabile dell'Ambulatorio Neuro-oncologico dell'Azienda Integrata di Verona, gestendo l'aspetto chemioterapico (1° e 2° linea) dei pazienti neuro-oncologici. Nel 2005 gli è stato conferito l'incarico di Alta Specializzazione in "Neuroimmunologia Clinica" e dal 2009 al 2015 l'incarico di Responsabile di Struttura Semplice Funzionale "Neuroimmunologia e Neuro-Oncologia Clinica".

Capacità e competenze didattiche

Dall'anno accademico 2001/2002 al 2015 è stato Docente di Neurologia presso il Corso di Laurea di Fisioterapista, Facoltà di Medicina e Chirurgia, Università degli Studi di Verona. Dal 2009 è Docente di Neurologia presso il Corso di Laurea di Medicina e Chirurgia, Università degli Studi di Verona. Dal 2009 al 2011 ha svolto il compito di Segretario della Scuola di Specializzazione di Neurologia, Università di Verona.

Capacità e competenze scientifiche

I principali interessi scientifici del Dott. Bonetti sono rivolti alla neuroimmunologia e neuro-oncologia. Durante il Corso del Dottorato di Ricerca in Scienze Neurologiche ha svolto due periodi di studio all'estero. Nel 1993-94, presso il Max-Planck Institute for Psychiatry di Monaco (Germania), si è dedicato allo studio dei fattori di crescita nelle malattie neurologiche. Nel 1995-96 è stato Research Fellow all'Albert Einstein College of Medicine, New York dove ha studiato il ruolo delle citochine e dei loro recettori coinvolti nella patogenesi della sclerosi multipla. Al rientro dai soggiorni di studio all'estero ha proseguito l'attività di studio nel settore della neuroimmunologia presso il Laboratorio di Neuropatologia della Clinica Neurologica di Verona. Una nuova linea di ricerca riguarda lo studio del potenziale terapeutico delle cellule staminali mesenchimali e delle vescicole da loro prodotte (esosomi) nelle patologie infiammatorie e degenerative del sistema nervoso.

Nel corso dell'ultimo anno il Dott. Bonetti ha mantenuto la collaborazione con alcuni colleghi dell'Università di Verona (Prof. Gabriela Constantin, Dipartimento di Patologia, e Dr. Raffaella Mariotti, Dipartimento di Neuroscienze) con cui prosegue la attività di ricerca sulle cellule staminali (vedi ref. 60 delle pubblicazioni e un lavoro attualmente sottomesso per pubblicazione "Nanovesicles from adipose-derived mesenchymal stem cells inhibit T lymphocyte trafficking and ameliorate chronic experimental autoimmune encephalomyelitis").

Svolge attività di referee per le seguenti riviste: Journal of Neuroimmunology, Journal of Neuropathology and Experimental Neurology, Neurological Sciences, Cellular and Molecular Life Sciences, Proteomics, Trends in Immunology, Cellular and Molecular Neurobiology, Cell Transplantation, Expert Review of Clinical Immunology, Neuroscience Letters, Journal of Neurological Sciences, Annals of Neurology, Neurology, Stem Cells International, Stem cells Research and Therapeutics, Tissue Engineering e Plos One.

Attività di referee per valutazione di progetti di ricerca da diversi Enti pubblici e privati: MIUR (PRIN e FIRB), Regione Liguria, Università di Padova, FISM, ARSEP.

Dal 2006 è membro dell'Editorial Board della rivista Journal of Neuropathology and Experimental Neurology e dal 2009 dell'Editorial Board della rivista World Journal of Stem Cells.

Dal 2001 al 2006 è stato membro del Consiglio Direttivo dell'Associazione Italiana di Neuroimmunologia. Dal 2001 è membro del Comitato Scientifico del Corso Residenziale di Neuroimmunologia. Dal 2009 al 2012 è stato Coordinatore del Gruppo di Studio di Neuroimmunologia nell'ambito della Società Italiana di Neurologia. Dal 2014 è Coordinatore della Sezione Triveneta della Società Italiana di Neurologia.

Allegati

Lista delle principali pubblicazioni scientifiche.

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

Verona 08.01.2020

A handwritten signature in black ink, appearing to be 'Bruno Bonini', written in a cursive style.

PUBBLICAZIONI su RIVISTE INTERNAZIONALI

1. Monaco S, Bonetti B, Ferrari S, Moretto G, Nardelli E, Tedesco F, Mollnes TE, Nobile-Orazio E, Manfredini E, Bonazzi ML, Rizzuto N. Complement-mediated demyelination in patients with IgM monoclonal gammopathy and polyneuropathy. *N Engl J Med* 322:649-52, 1990. IF 53.293
2. Bonetti B, Monaco S, Ferrari S, Tezzon F, Rizzuto N. Demyelinating polyradiculoneuritis following *Coxiella Burnetii* infection (Q fever). *Ital J Neurol Sci* 12:415-17, 1991. IF 1.435
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4. Zanusso GL, Moretto G, Bonetti B, Monaco S, Rizzuto N. Complement neoantigen and vitronectin are components of plaques in amyloid AL neuropathy. *Ital J Neurol Sci* 13:493-499, 1992. IF 1.435
5. Tomelleri G, Tonin P, Spadaro M, Tilia G, Orrico D, Barelli A, Bonetti B, Monaco S, Salviati A, Morocutti C. AZT-induced mitochondrial myopathy. *Ital J Neurol Sci* 13:723-728, 1992. IF 1.435
6. Moretto G, Sparaco M, Monaco S, Bonetti B, Rizzuto N. Cytoskeletal changes and ubiquitin expression in dystrophic axons of Seitelberger's disease. *Clin Neuropathol* 12:34-37, 1993. IF 1.200
7. Bonetti B, Monaco S, Giannini C, Ferrari S, Zanusso GL, Rizzuto N. Human peripheral nerve macrophages in normal and pathological conditions. *J Neurol Sci* 118:158-168, 1993. IF 2.359
8. Nobile-Orazio E, Manfredini E, Carpo M, Meucci N, Monaco S, Ferrari S, Bonetti B, Cavaletti G, Gemignani F, Durelli L, Barbieri S, Allaria S, Sgarzi M, Scarlato G. Frequency and clinical correlates of anti-neural IgM antibodies in neuropathy associated with IgM monoclonal gammopathy. *Ann Neurol* 36:416-424, 1994. IF 11.089
9. Gerhmann J, Yao DL, Bonetti B, Bondy C, Brenner M, Zhou J, Kreutzberg GW, De Webster Hf. Expression of insulin-growth factor-I and related peptides during motoneuron regeneration. *Exp Neurol* 128:202-20, 1994. IF 3.974
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Citations/year: 45

(Fonte Publish or perish)

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Professor Assistant (RTDA, ASN MED46) in the Dept. of Neurosciences, Biomedicine and Movement Science of the University of Verona (Neurology Unit).

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.
- October 2018 ASN 06/N. Scienze delle professioni sanitarie e delle tecnologie mediche applicate

Research/Professional 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 UK Multiple Sclerosis Tissue Bank at 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-October 2017

Research Fellowship in the Dept. of Neurosciences, Biomedicine and Movement Science of the University of Verona.

-November 2017-

Professor Assistant (RTDA, Tenure track) in the Dept. of Neurosciences, Biomedicine and Movement Science of the University of Verona.

Attività didattica

-Didattica frontale:

Docente del modulo di METODI E TECNICHE DI BIOCHIMICA CLINICA, Scuola di Specializzazione in Patologia clinica e biochimica clinica, Università di Verona, AA 2019/2020

-Didattica Integrativa:

Tutoraggio per la preparazione delle Tesi di Laurea in Medicina e Chirurgia, Università di Verona:

Anno accademico 2017/2018 Laureando Federico Lattanzi

Anno accademico 2018/2019 Laureando Alberto Poli

Anno accademico 2019/2020 Laureanda Daniela Postinghel

-Collegio dei Docenti della Scuola di Dottorato, Dept. of Neurosciences, Biomedicine and Movement Science of the University of Verona (2020-).

Grants (obtained as principal investigator)

- 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-December 2020: 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”.

- July 2020-: 2 years pre-clinical research grant from Roche-Basel (180.000,0 Euro):”Combined imaging and molecular profiling of microglia activity 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

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 ectopic 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 (58):

Citations: 4879 total citations by 2921 documents

h-index: 27

FUR-score 2020: 1858,6

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Oral presentations (as invited speaker)

- Oral presentation at the Annual Conference of Italian MS Foundation (FISM) 29-30 Maggio 2017, Rome
- Oral presentation at the European Committee for treatment and research in multiple sclerosis (ECTRIMS) 25-28 October 2017, Paris
- Oral presentation at the European Committee for treatment and research in multiple sclerosis (ECTRIMS) 10-12 October 2018, Berlin
- Chairman at the European Committee for treatment and research in multiple sclerosis (ECTRIMS), 11-13 September 2019, Stockholm
- Oral presentation at European Charcot Foundation, 21-23 November 2019, Baveno
- Oral presentation at the American Committee for treatment and research in multiple sclerosis (ACTRIMS) 9-12 September 2020, Washington (virtual)

Other scientific activity:

2003-: member of Italian Neuroimmunology Association (AINI)

2004-: member of Italian Multiple Sclerosis Foundation (FISM)

2015: Reviewer of the French Multiple Sclerosis Association (ARSEP)

2018-: Faculty member of the European Committee for Treatment and Research in Multiple sclerosis (ECTRIMS)

2019: Special Guest Editor of Journal *Neuroimmunology and Neuroinflammation*

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 culture", 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 Neuroimmunology (ESNI)" course, Oxford-UK.
- June 2009: workshop: "Clinical trial authorisations and MHRA inspections", London-UK.
- October 2010: "European Society of Neuroimmunology (ESNI)" course, Sitges-SP.

- July 2013: “British Neuropathology Society summer school: recent advances in neuropathology and applied neurobiology”, Cirencester (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;
- Laser capture microdissection from human brain sections and further molecular biology analysis;
- In situ hybridization;
- 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 data gene 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).

Autorizzo il trattamento dei miei dati personali presenti nel cv ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 “Codice in materia di protezione dei dati personali” e del GDPR (Regolamento UE 2016/679).

Verona, 11-05-2021

