Violeta Ristoiu, Ph.D
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RESUMÉ

Education

2018	Habilitation degree in Biology from the University of Bucharest, with the thesis "***Investigating new mechanisms of modulating dorsal root ganglia neurons' excitability under metabolic stress or due to neuro-immune interactions***"
2002	PhD degree *Magna cum laudae* from the University of Bucharest, Faculty of Biology with the thesis "***Functional characteristics of spinal neurons: tolbutamide-sensitive K^+ channels and type I K^+ channel***"
1986-1991	Research Assistant and undergraduate student in **Biology** Thorough studies in **Medical Biology** Bucharest University, Faculty of Biology, B.Sc. in Biology
1982-1986	**Sanitary High-School** Braila, graduated *Magna cum laudae*

Training

2016	Training in the Science of Laboratory Animals, workshop organized by the Romanian Association for the Science of Laboratory Animals
2015	Fulbright Visiting Scholar at University of Omaha Medical Center, Department of Pharmacology and Experimental Neuroscience, Nebraska, USA
2012-2013	Trainee under POSDRU/86/1.2/S/60281 project, "The reinforcement of competencies - oriented higher education"
2008-2009	Visiting Scientist at Alnylam Pharmaceuticals, Cambridge, MA, USA
2007	Four months Visiting Professor at the Okazaki Institute for Integrative Bioscience, Japan
2007	One month training in **imunocitochemistry** at the University of Antwerpen, under a Belgian-Romanian Bilateral Program
2000	One month scholarship at the Mansfield College, Oxford, under the Oxford Colleges Hospitality Scheme
1998	Two weeks course on "**Ion Channel Patch Clamp Electrophysiology**" at the University of Copenhagen, August Krogh Institute
1996-1998	6 months training (separated by years in 1+4+1) in **patch-clamp technique** at the University of Hamburg, Eppendorf Hospital, Institute of Physiology within a TEMPUS Programme

National and International Awards

- 2019, Prize "Emanoil Teodorescu" from the Romanian Academy
- 2008-2009, "Foundation Sante" and AIPT (Association for International Practical Training) Fellowship
- 2006, NIDA (National Institute on Drug Abuse) Scholarship to participate at *Pain Mechanisms and the Development of Analgesic* , Keystone, USA
- 1996, Tempus Fellowship, University of Hamburg, Eppendorf Hospital, Institute of Physiology, Germany

Professional work record

University of Bucharest, Faculty of Biology, Department of Anatomy, Physiology and Biophysics, *Professor*, March 2019 -present

- Education activities (lectures, practical courses, co-ordinating student final thesis).
- Research project manager in neurobiology.

University of Bucharest, Faculty of Biology, Department of Anatomy, Physiology and Biophysics, *Associate Professor*, March 2004 – January 2018

- Education activities (lectures, practical courses, co-ordinating student final thesis).
- Author of two Human Anatomy and Physiology textbooks and of a practicum of Animal Physiology.
- Research project manager in neurobiology.

University of Bucharest, Faculty of Biology, Department of Anatomy, Physiology and Biophysics, *Senior Lecturer*, January 2000 - February 2004

- Education activities (lectures, practical courses, coordinating student final thesis).
- Co-author of a national textbook of Biology for high-school students.

University of Bucharest, Faculty of Biology, Department of Anatomy, Physiology and Biophysics, *Teaching Assistant*, 1994 - January 2000

- Established and co-ordinated the collaboration with **INTERNICHE** (*Inter*national *N*etwork of *I*ndividuals and *C*ampaigns for *H*umane *E*ducation) under a World Bank financed program.
- Involved in interviewing prospective students for awarding TEMPUS scholarships and for admission at the Neurobiology Master Program.
- Education activities (lectures, practical courses, coordinating student final thesis, admission process in the university).
- Coordinated the team who translated the book "*Introduction à la neurobiologie molecullaire*" by Zach Hall, a 1994 French edition.

University of Bucharest, Faculty of Biology, Department of Animal Physiology, *Junior Assistant*, 1991-1994

- Education activities (practical courses, admission process in the university).

Research experience

International grants as project coordinator

2017-2020 **"**Iba-1 (+) macrophages contribution to peripheral neuropathic pain development" financed by International Centre for Genetic Engineering and Biotechnology, Italy

National research grants as project coordinator

2020-2022 PED -"Validation of Iba1 protein as a therapeutic target in human microglia", financed by UEFISCDI, Romania

2018-2021 PCCDI – "Biocompatible system for sustaining peripheral nerve regeneration", co-PI in collaboration with Dr. Monica Neagu from the National Institute "Victor Babes" – a subproject of the complex project "Innovative advanced approaches for predictive regenerative medicine", Director: Prof. Dr. Marieta Costache

2014-2016 PARTNERSHIPS, 205, "Validation of the combined use of RNAi technology and mass spectrometry for the identification of therapeutic targets in microglia, important for neuropathic pain and Alzheimer disease"

2011-2016 IDEAS, 117, "Cellular and molecular mechanisms of diabetic neuropathy: implications of the immune system and of the glycation agents".

2007-2009 CNCSIS, "Effects of polyunsaturated fatty acids on TRPV1 channels expressed in dorsal root ganglia neurons. Implications for pain mechanisms".

National research grants as team member

2016-2019 POC 146/2016, "Development of automated patch-clamp technologies for pro-arrhythmogenic risk testing of drug candidates", (http://cipa3.unibuc.ro/home-2/).
26.10.2016 - 03.05.2018, **Acquisitions Manager**
04.05.2018 - 25.10.2019, **Senior Researcher II**

2005-2008 CEEX, 27, "Study of molecular mechanisms of diabetic neuropathy on cultured dorsal root ganglion neurons maintainded in diabetic conditions".

2005-2008 CEEX, 31, "Molecular, cellular and integrative mechanisms of pain. Clinical implications".

2002-2004 CERES, 1/3, "*In vitro* investigations of the energetic restriction stress-induced changes of the intracellular signalling cascade", collaborators of UMF "Carol Davila", Bucharest.

2003-2006 VIASAN, 199, "Modulation mechanisms of ionic channels activated by tissular acidosis in peripheral nervous fibers and blood vessels"

2003 CNCSIS, A15/221, "Generation of spontaneous excitatory activity in lesioned nerves: new experimental approaches".

2001 World Bank, C326, "Neuronal excitability in diabetic neuropathy and generation of spontaneous activity in lesioned nerves".

1999 CNCSIS, A28/30, "Physiology of K^+ channel involved in maintaining resting membrane potential in rat axons".

1998- 2002 World Bank, PU-19, "The modernization and optimization of physiology teaching through a balanced use of computer-assisted and electrophysiological methods".

1998 -2002 World Bank, D-22, "Development of a Master and PhD Program in molecular physiology, with an emphasis on neurobiology and membrane biophysics in excitable and non-excitable cells".

1998 - 2002 World Bank, B-50, "Molecular physiology: Electrophysiological techniques and computer modelling of cellular and molecular interactions".

1995 TEMPUS, S-JEP 09373-95 (a ~200, 000 ECU project concerning the organisation of the Master in Neurobiology), member in the team who worked for the proposal.

International research grants as partner team leader

2015-2017 IASP Collaborative Research Grant, "Targeting Microglial Potassium Channels to treat pain", Co-project manager together with Dr. Marc Suter from University of Lausanne, Switzerland

2013-2014 Scientific Exchange Program (Sciex-NMS) with University of Lausanne, Switzerland, Home mentor

2014 Bilateral Romania-Japan 767/2014, "The role of P2X7 receptor in the modulation of the microglia response in neuropathic pain", Co-project manager together with Assoc. Prof. Koji Shibasaki, Department of Molecular and Cellular Neurobiology, Gunma University Graduate School of Medicine, Maebashi, Japan

2012-2014 Bilateral Romania-Greece 577/2012, "The role of small GTP-ases and ASIC channels in normal and pathological cortex", Co-project manager together with Dr. Domna Karagogeos from Institute of Molecular Biology and Biotechnology, Heraklion, Crete

International research grants as team member

2004-2006 Estee Lauder Inc., USA, "Anti-inflammatory effects of plant extracts".

International research grants as visiting scientist

2008-2009 Alnylam Pharmaceuticals, Boston, US, "Assess the efficacy of macrophage marker Iba-1/Aif-1 silencing on pain"

2008-2009 Alnylam Pharmaceuticals, Boston, US, **"**Development of ALN-TTR, an RNAi therapeutic for the treatment of transthyretin amyloidosis".

2007 NIPS Japan, "Identification of critical determinants which potentiate TRPV1 activity under diabetic conditions" in Prof. Makoto Tominaga's lab.

Technical skills

Cell Biology

- Cell culture experience: dorsal root ganglia neurons primary culture, microglia and monocyte/macrophage cell lines. Immunocitochemistry and immunohistochemistry

Electrophysiology and Imaging techniques

- Patch-clamp on primary and cell line culture, calcium imaging using Calcium Green-1 and Fura-2 fluorescent dyes and fluorescent microscopy.

Molecular Biology and Biochemistry techniques

- Gene silencing with anti-sense RNA, branched DNA assay, ELISA and Multiplex technology for cytokine/chemokine measurement, RT-PCR, Western blot, In-cell Western

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Papers in ISI journals as main author

- Grosu AV, Gheorghe RO, Filippi A, Deftu AF, Isler M, Suter M, **Ristoiu V**. Dorsal root ganglia $CSF1^+$ neuronal subtypes have different impact on macrophages and microglia after spared nerve injury. J Peripher Nerv Syst. 2024 Dec;29(4):514-527.
- Gheorghe RO, Grosu AV, Magercu M, Ghenghea MS, Zbarcea CE, Tanase A, Negres S, Filippi A, Chiritoiu G, Gherghiceanu M, Dinescu S, Gaina G, Sapunar D, **Ristoiu V**. Switching Rat Resident Macrophages from M1 to M2 Phenotype by Iba1 Silencing Has Analgesic Effects in SNL-Induced Neuropathic Pain. Int J Mol Sci. 2023 Oct 31;24(21):15831.
- Gheorghe RO, Grosu AV, Bica-Popi M, **Ristoiu V**. The Yin/Yang Balance of Communication between Sensory Neurons and Macrophages in Traumatic Peripheral Neuropathic Pain. Int J Mol Sci. 2022 Oct 16;23(20):12389.
- Gheorghe RO, Deftu A, Filippi A, Grosu A, Bica-Popi M, Chiritoiu M, Chiritoiu G, Munteanu C, Silvestro L, **Ristoiu V**., Silencing the Cytoskeleton Protein Iba1 (Ionized Calcium Binding Adapter Protein 1) Interferes with BV2 Microglia Functioning. Cell Mol Neurobiol. 2020, 40(6):1011-1027
- Deftu AT, Ciorescu R, Gheorghe RO, Mihăilescu D, **Ristoiu V**. CXCL1 and CXCL2 Inhibit the Axon Outgrowth in a Time- and Cell-Type-Dependent Manner in Adult Rat Dorsal Root Ganglia Neurons. Neurochem Res. 2019 Sep;44(9):2215-2229
- Deftu AF, Filippi A, Gheorghe RO, **Ristoiu V**., 2018, CXCL1 activates TRPV1 via Gi/o protein and actin filaments. Life Sci. 193:282-291
- Deftu A, Filippi A, Shibasaki K, Gheorghe RO, Chiritoiu M, **Ristoiu V**,CXCL1 and CXCL2 chemokines modulate the activity of TRPV1+/IB4+ cultured rat dorsal root ganglia neurons upon short-term and acute application, *Journal of Physiology and Pharmacology*, 68 (3): 385-395, 2017
- Filippi A, Caruntu C, Gheorghe RO, Deftu A, Amuzescu B, **Ristoiu V**, Catecholamines reduce TRPV1 desensitization in cultured dorsal root ganglia neurons, *Journal of Physiology and Pharmacology*, 67 (6): 843-850, 2016
- Gheorghe, R.O., Soca, A., Chiriţoiu M., Deftu, A.F., Flonta, M.L., **Ristoiu, V**., 2018. Long-term exposure to CXCL2 has cytotoxic effects on HEK293T cells stably expressing TRPV1, Romanian Biotechnological Letters, 23 (3), pp.13647-13653
- Deftu TA, Deftu AF, **Ristoiu V**, Long-term incubation with CXCL2, but not with CXCL1, alters the kinetics of TRPV1 receptors in cultured DRG neurons, *Archives of Biological Sciences*, 69(00):74-74, 2016

- **Ristoiu V**, Contribution of macrophages to peripheral neuropathic pain pathogenesis, mini-review, *Life Sciences* 93(23): 870-81, 2013
- Ton Thi Bich H, Chen Q, Gaina G, Tucureanu C, Georgescu A, Strungaru C, Flonta ML, Sah DW, **Ristoiu V**, Activation profile of dorsal root ganglia Iba-1 (+) macrophages varies with the type of lesion in rats, *Acta Histochemica,* 115(8): 840-50, 2013
- **Ristoiu V**, Shibasaki K, Uchida K, Zhou Y, Ton TBH, Flonta ML, Tominaga M, Hypoxia-induced sensitization of transient receptor potential vanilloid 1 involves activation of hypoxia-inducible factor-1 a and PKC, *Pain*, 152(4): 936-945, 2011
- Ton TBH, Marin A, Dinu C, Banciu D, Flonta ML, **Ristoiu V**, Hypoxia and high glucose activate TTX-R Na^+ channels through PKA and PKC, *Acta Neurobiologiae Experimentalis*, 70 (4): 351-61, 2010
- **Ristoiu V**, Pluteanu F, Flonta ML, Reid G, Few cultured rat primary sensory neurones express a tolbutamide-sensitive current, *Journal of Cellular and Molecular Medicine*, 6(2): 271-274, 2002

Papers in ISI journals as contributor

- Anton R, Ghenghea M, **Ristoiu V**, Gattlen C, Suter MR, Cojocaru PA, Popa-Wagner A, Catalin B, Deftu AF. Potassium Channels Kv1.3 and Kir2.1 But Not Kv1.5 Contribute to BV2 Cell Line and Primary Microglial Migration. Int J Mol Sci. 2021 Feb 19;22(4):2081. doi: 10.3390/ijms22042081
- Gattlen C, Deftu AF, Tonello R, Ling Y, Berta T, **Ristoiu V**, Suter MR. The inhibition of Kir2.1 potassium channels depolarizes spinal microglial cells, reduces their proliferation, and attenuates neuropathic pain. Glia. 2020 Oct;68(10):2119-2135. doi: 10.1002/glia.23831
- Moldovan C, Dobrescu L, **Ristoiu V**, Firtat B, Dinulescu S, Brasoveanu C, Ion M, Dobrescu D, Gheorghe R, Pascalau AM, Pogarasteanu M, Coculescu BI, Oproiu AM, Experimental measurements in the acquisition of biosignals from a neuronal cell culture for an exoprosthesis command, *Revista de Chimie*, Volume 69 (10): 2948-2952, 2018
- Manole E, Bastian A, **Ristoiu V**, Zurac S, Neagu M, The Effects of Exogenous Modulation on the Peripheral Nerve Regeneration after Injury and Primary Surgical Repair, Biomedical Journal of Scientific & Technical Research, doi: 10.26717/BJSTR.2018.04.001043, 2018
- Deftu AF, **Ristoiu V**, Suter MR, Intrathecal administration of CXCL1 enhances potassium currents in microglial cells, *Pharmacology*, doi: 10.1159/000486865, 2018
- Alexandru N, Andrei E, Niculescu L, Dragan E, **Ristoiu V**, Georgescu A, Microparticles of healthy origins improve endothelial progenitor cell dysfunction via microRNA transfer in an atherosclerotic hamster model, *Acta Physiologica*, doi: 10.1111/apha.12896, 2017
- Ulareanu R, Chiritoiu G, Cojocaru F, Deftu A, **Ristoiu V**, Stanică L, Mihailescu DF, Cucu D, N-glycosylation of the Transient Receptor Potential Melastatin 8 (trpm8) channel is altered in pancreatic cancer cells, *Tumor Biology*, 39(8), doi: 10.1177/1010428317720940, 2017
- Deftu AF, Fiorenzani P, Ceccarelli I, Pinassi J, Gambaretto M, **Ristoiu V**, Paulesu LR, Aloisi AM, Macrophage Migration Inhibitory Factor (MIF) modulates formalin induced behaviors in rats, *Animal Biology*, doi 10.1163/15707563-00002502, 2016
- Pluteanu F, **Ristoiu V**, Flonta ML, Reid G, a1-adrenoceptor-mediated depolarization and b-mediated hyperpolarization in cultured rat dorsal root ganglion neurones, *Neuroscience Letters* 329(3): 277-280, 2002
- Babes A, Lörinczi E, **Ristoiu V**, Flonta ML, Reid G, Slowed inactivation at positive potentials in a rat axonal K^+ channel is not due to preferential closed-state inactivation: differences between inactivation of native and cloned K^+ channels, *Physiological Research*, 50(6): 557-565, 2001

Papers in BDI journals as main author

- Deftu AF, Deftu AT, **Ristoiu V**, The effect of the glial conditioned medium on brain and spinal cord microglial cells in culture, *Romanian Journal of Biophysics*, 26(1): 063-068, 2016
- **Ristoiu V,** Flonta ML, Types of receptors and ionic channels in the primary sensory nociceptive neurons from dorsal root ganglia (I), *Analele Universitatii Bucuresti*, XLIX, 39-47, 2000
- **Ristoiu V,** Flonta ML, Types of receptors and ionic channels in the primary sensory nociceptive neurons from dorsal root ganglia (II), *Analele Universitatii Bucuresti*, XLIX, 49-55, 2000
- **Ristoiu V**, Flonta ML, Interactions between neurotransmitters and receptors, review, *Romanian Journal of Biophysics*, 9 (3-4): 11-127, 1999
- Flonta ML, **Ristoiu V**, Procaine increases the water permeability in frog intestine, *Romanian Journal of Biophysics*, 4 (4): 199-202, 1994

Papers in BDI journals as contributor

- Amuzescu B, Airini R, Ghica L, Epureanu FB, Deftu AF, Cucu D, **Ristoiu V**, Mihăilescu D, Radu B, Novel approaches to proarrhythmogenic risk testing using automated patch-clamp platforms, *Romanian Journal of Biophysics*, 27(1): 013-022, 2017
- Neagoe I, Ristoiu V, Flonta ML, Characteristics of Quercetin Insertion in Planar Lipid Bilayers, *Romanian Journal of Biophysics*, 9(1-2): 33-38, 1999

Publications in *Proceedings* as abstract

- N. Alexandru, E. Dragan, **V. Ristoiu**, L. Niculescu, A. Georgescu. Role of microparticles as microRNA messengers in reestablishing of atherosclerosis-associated endothelial progenitor cell dysfunction. presentation as *Science at a Glance* at the '85th European Atherosclerosis Society Congress' (EAS2017), Prague, Czech Republic, 23-26 April 2017, Abstract SAG014, in *Atherosclerosis*, August issue, Volume 263, Page e33 (2017). DOI:http://dx.doi.org/10.1016/j.atherosclerosis.2017.06.127.
- Alvarez R, Borland T, Chen Q, Milstein S, Nguyen T, Hinkle G, Kuchimanchi S, Costigan J, **Ristoiu V**, Wang G, Cole G, Dorkin R, Akinc A, Nechev L, Kosovrasti V, Tchangov L, Tracy M, Jeffs L, MacLachlan I, Lutwyche P, Martins D, Costelha S, Saraiva MJ, Sah DW, ALN-TTR, an RNAi therapeutic for the treatment of transthyretin-mediated amyloidosis, *Amyloid-Journal of Protein Folding Disorders*, 17, Suppl. 1, 51-52, 2010
- Alvarez R, Borland T, Chen Q, Milstein S, Nguyen T, Hinkle G, Kuchimanchi S, Costigan J, **Ristoiu V**, Wang G, Cole G, Dorkin R, Akinc A, Nechev L, Kosovrasti V, Tchangov L, Tracy M, Gamba-Vitalo C, Jeffs LB, MacLachlan I, Lutwyche P, Ribiero T, Saraiva MJ, Sah DW, Development of ALN-TTR, an RNAi therapeutic for the treatment of transthyretin amyloidosis, *Hepatology*, 50(6), 5A-6A, 2009
- **Ristoiu V,** Shibazaki K, Flonta ML, Tominaga M, Identification of critical determinants which potentiate TRPV1 activity under diabetic conditions, *Journal of Physiological Sciences*, 59, Suppl 1, 376, 2009
- **Ristoiu V,** Dinu CE, Flonta ML, Cultured rat primary sensory neurons exposed to hypoxic/hyperglycemic conditions exhibit altered Na^+ and TRPV1 currents, *European Journal of Pain*, Volume 10, S49, 1754-3207, 2006
- Babes A, Lorinczi E, Pluteanu F, **Ristoiu V,** Flonta ML, Reid G, Slowing of inactivation at positive potentials in a rat axonal K^+ channel is not due to preferential closed state inactivation, *Eur J Neurosci*, 12, Suppl 11, 381, 2000
- **Ristoiu V**, Babes A, Flonta ML, Reid G, Slowing of inactivation of a rat axonal K^+ channel at positive potentials reveals differences from inactivation behaviour of cloned K^+ channels, *J Physiol*, 518, P:111P, 1999
- Ardelean I, **Ristoiu V**, Flonta ML, Zarnea G, Respiratory and photosynthetic response on salt stressed *Synechocystis* PCC 6803, *Photosynthesis: from Light to Biosphere*, Vol. IV, 525-528, Sinauer Press, 1995

Oral communications at international conferences

- **Ristoiu V**, Harvesting the analgesic potential of macrophages, *Behavioural, cellular and neurochemical approach in studying neurodegenerative disorders*, Petnica Science Center, Valjevo, Serbia, 24-30 July, 2023
- **Ristoiu V**, The role of macrophages from peripheral nervous system in traumatic neuropathic pain pathogenesis, *Models of Neuroinflammation and Neuropathology*, Kuopio, Finland, 6-7 June, 2022
- Deftu A, Filippi A, Gheorghe RO, Chiriţoiu G, Grosu A, Floare M, Tuchilus A, **Ristoiu V**, The silencing of Iba-1 protein alters the proliferation profile of microglial cells, *Microglia 2018, EMBO workshop*, EMBL Heidelberg, 2018
- Gheorghe RO, Repić T, Zbarcea C, Tanase A, Negres S, Chiritoiu G, Sapunar D, **Ristoiu V**, Intra-ganglionic delivery of Iba-1 siRNA is reducing the SNL-induced neuropathic pain, *European Pain School*, Siena, Italy, 2017
- Deftu AT, Marculescu R, **Ristoiu V**, CXCL1 and CXCL2 chemokines affects neurites outgrowth in dorsal root ganglion neurons*, European Pain School,* Siena, 2016
- **Ristoiu V**, TRPV1 receptor: new modalities of sensitization and/or activation in peripheral nervous system, *DNF Symposium*, Lausanne, Switzerland, 2014

Oral communications at national conferences

- **Ristoiu V**, Macrophages, a possible therapeutic target in cancer, *3rd Edition of the OncoHub Conference*, Bucharest, September 2023
- Anton AS, Bica-Popi (Magercu) M, **Ristoiu V**, Gheorghe RO, Influența lichidului cefalorahidian de la pacienții cu scleroză în plăci asupra secreției de oxid nitric în linia celulară de microglii umane HMC3, *Conference of the students from Faculty of Biology*, Bucharest , May 2023
- **Ristoiu V**, Contribution of interactions between the immune system and the nervous system to the development of traumatic peripheral neuropathic pain, *The 1st Annual Conference of Research Results Communication at the University of Bucharest*, Bucharest, February 2023
- Bica-Popi M, **Ristoiu V**, Comparative study on the efficacy of magnetofecttion in rat microglia primary cultures and human HMC3 micorglia, *Conference of the students from Faculty of Biology*, Bucharest , May 2022
- Gheorghe RO, **Ristoiu V**, Switch of rat dorsal root ganglia macrophages to M2 phenotype after cytoskeleton alteration reduces SNL-induced neuropathic pain, *The 10th Conference of the National Neuroscience Society of Romania (SNN) with international participation*, Bucharest, September, 2022
- Gheorghe RO, Grosu AV, Ghenghea MS, Bica-Popi M and **Ristoiu V**: Harvesting the analgesic and regenerative potential of macrophages from peripheral nervous system, *2nd International Conference on Neuroscience, Neuroinformatics, Neurotechnology and NeuroPsycho- Pharmacology, Bucharest, 2021*
- Bica-Popi M and **Ristoiu V**: Efficient delivery of small interfering RNA in HMC3 human microglia using Magnetofection, *2nd International Conference on Neuroscience, Neuroinformatics, Neurotechnology and NeuroPsycho- Pharmacology, Bucharest, 2021*
- Grosu AV, Deftu AF, Pertin M, Kirschmann G and **Ristoiu V**: Activation of dorsal root ganglia's macrophages and spinal microglia is spatially correlated after Spared Nerve Injury model, *2nd International Conference on Neuroscience, Neuroinformatics, Neurotechnology and NeuroPsycho-Pharmacology, Bucharest, 2021*
- Roxana-Olimpia Gheorghe, Andy-Gabriel Buga, Izabela Cristina Stancu, Elena Olaret and **Violeta Ristoiu**: Assessing the peripheral nerve regeneration through autotomy parameters development, *2nd International Conference on Neuroscience, Neuroinformatics, Neurotechnology and NeuroPsycho-Pharmacology, Bucharest, 2021*
- **Ristoiu V**, Neuro-immune interactions in neuro-inflammation. The role of microglia and macrophages. *Neurosciences, Neurotechnology, Neuroinformatics and Neuro-psychopharmacology Workshop***,** Bucharest, June 2019

- **Ristoiu V**, The role of cytoskeleton in the interaction between immune cells and neurons, *The 9th Conference of the National Neuroscience Society of Romania (SNN) with international participation*, Bucharest, 2018
- Gheorghe RO, Zbârcea CE, Tănase A, Gherghiceanu M, Chirițoiu G, Sapunar D, Flonta ML, **Ristoiu V**, Local administration of therapeutic agents at the level of dorsal root ganglia - a new method to treat neuropathic pain, *The 9th Conference of the National Neuroscience Society of Romania (SNN) with international participation*, Bucharest, 2018
- Deftu A, Anton RE, Bica-Popi M, Bogdan C, gattlen C, Decosterd I, Suter MR, **Ristoiu V**, Potassium channels after spared nerve injury, *The 9th Conference of the National Neuroscience Society of Romania (SNN) with international participation, Bucharest*, 2018
- Caragea V, **Ristoiu** V, Genzel L, Investigating cumulative memory in rodents by using the novel Object Space Task, *The 9th Conference of the National Neuroscience Society of Romania (SNN) with international participation*, Bucharest, 2018
- Deftu A, Gheorghe RO, Grosu A, Filippi A, Chirițoiu G, Burlacu E, **Ristoiu V**, Controlling microglia mobility via interactions with the cytoskeleton, *1st International Conference on Neuroscience, Neuroinformatics, Neurotechnology and Neuro-Psycho- Pharmacology*, Bucharest, Romania, 2018
- Caragea V, **Ristoiu V**, Genzel L, The Object Space Task, *1st International Conference on Neuroscience, Neuroinformatics, Neurotechnology and Neuro-Psycho- Pharmacology*, Bucharest, Romania, 2018
- Gheorghe RO, Zbârcea CE, Tănase A, Gherghiceanu M, Chirițoiu G, Sapunar D, Flonta ML, **Ristoiu V**, SiRNA therapy for neuropathic pain treatment, *National Conference of Doctoral Schools from Universitaria Consortium*, Iasi, Romania, 2018
- Necula MG, Ion R, **Ristoiu V**, Cimpean A, In vitro inflammatory response to TiO2 nanostructure materials, *National Conference of Doctoral Schools from Universitaria Consortium*, Iasi, Romania, 2018
- Gheorghe RO, Zbârcea CE, Tănase A, Gherghiceanu M, Chirițoiu G, Sapunar D, **Ristoiu V**, SiRNA interference therapy for neuropathic pain, *The 8th Conference of the National Neuroscience Society of Romania (SNN) with international participation*, Bucharest, 2017
- Deftu A, Filippi A, Gheorghe RO, Chirițoiu G, Grosu A, Floare M, Tuchilus A, **Ristoiu V**, Altering microglia functionality by interfering with cytoskeleton proteins, *The 8th Conference of the National Neuroscience Society of Romania (SNN) with international participation*, Bucharest, 2017
- **Ristoiu V**, Modulation of microglia/macrophages activity by interactions with the cytoskeleton, *The Research Institute of the University of Bucharest*, 2017
- Gheorghe RO, Repić T, Sapunar D, Flonta ML, **Ristoiu V**, Intra-ganglionic delivery of Iba-1 siRNA is reducing the SNL-induced neuropathic pain - pilot study, *The 7th Conference of the National Neuroscience Society of Romania (SNN) with international participation*, Bucharest, 2016
- Ulareanu R, Chiritoiu G, Deftu AF, **Ristoiu V**, Cucu D. Glycosylation modulates transient receptor potential channels in pancreatic cancer, *The Symposium Nicolae Cajal of the Romanian Academy of Medical Sciences*, Bucharest, 2016
- **Ristoiu V**, Deftu AF, Modulatory effects of CXCL1 chemokine on TRPV1 channels, *The 4th Conference of the National Neuroscience Society of Romania*, Bucharest, 2013
- **Ristoiu V**, Iba-1 protein - a possible new therapeutic target for neuropathic pain treatment? *Diaspora in Scientific Research and Higher Education in Romania, Perspectives in Neuroscience*, Bucharest, 2012
- **Ristoiu V,** Dinu C, Flonta ML, Effects of short-term exposure to hypoxic/hyperglycemic conditions on the cultured rat primary sensory neurons, *Neuroscience 2005 - International Symposium Timisoara-Munchen*, Timisoara, 2005

Posters at international conferences

- Grosu A, Pertin M, Kirschmann G, Filippi A, Deftu AF, Ristoiu V, Characterizing the spatial distribution of spinal cord microglia after Spared nerve injury model of neuropathic pain, *The 16th European Meeting on Glial Cells in Health and Disease*, Berlin Germany, July, 2023
- Magercu M, Chiritoiu G, Munteanu C, Ristoiu V, Rat primary microglia cultured in defined medium conditions revealed to be a restrictive model in silencing gene expression, *The 16th European Meeting on Glial Cells in Health and Disease*, Berlin Germany, July, 2023
- Grosu A, Pertin M, Kirschmann G, Deftu AF,Ristoiu V, Investigation of sensory neuron-derived CSF1 as a potenatila chemattractant factor for macropphagse after peripheral nerve injury, *FENS-Hertie Winter School*, 29 January – 4 February 2023, Austria
- Ghenghea M, Ristoiu V, A Python package for automated analysis of electrophysiology data from patch-clamp experiments, *9th Baltic-Nordic Summer School on Neuroinformatics*, Kraków, Poland, July 4-8, 2022
- Bica-Popi M, **Ristoiu V**, Magnetofection in HMC3 human microglia is not affected by defined medium conditions, *FENS*, Paris, France, July 2022
- Grosu A, Pertin M, Kirschmann G, Deftu A.F, **Ristoiu V**, Investigation of sensory neuron-derived CSF1 as a potential chemoattractant factor for macrophages after peripheral nerve injury *FENS*, Paris, France, July 2022
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Member in Scientific Societies

Member of the **I**nternational **S**ociety for **N**eurochemistry (**ISN**)
Member of the **I**nternational **A**ssociation for the **S**tudy of **P**ain (**IASP**)
Member of the Romanian Society of Pure and Applied Biophysics (**SRBPA**)
Member of the National Neuroscience Society (**SNN**)

Scientific Assignments

Reviewer at Journal of Neurochemistry, Neuroscience letters, Journal of Pain Research, Mediators of Inflammation, Pain Research and Treatment, Journal of Immunological Research, Acta Histochemica, Acta Endocrinologica, Histology and Histopathology, Journal of Cell Identity
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Other information

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