STEFANO GIOVANNARDI - SCIENTIFIC CV

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PROFILE

Stefano Giovannardi is a researcher and assistant professor of Physiology at the University of Insubria, in addition to his academic career as a biologist, he is involved in artistic productions in the field of music.

TRAINING - EXPERIENCE

1990

Degree in Biological Sciences, majoring in molecular and cellular biology, with thesis: "Cytosolic calcium oscillations in single human fibroblasts stimulated with mitogens," concerning the study of changes in membrane conductance and cytosolic Ca2+ concentration induced by serum, PDGF and bradykinin in single human fibroblasts. The Thesis was carried out while attending the electrophysiology laboratory of the Department of General Physiology and Biochemistry, University of Milan; grade obtained 110/110.

1990-91

Postdoctoral fellowship at the laboratory of Prof. C. Peracchia, Dept. of Physiology, University of Rochester Medical Center, Rochester, New York U.S.A., studying the regulation of cell-to-cell communication by gap junction. The research was conducted on pairs of chicken embryo ventricular myocytes using the double whole-cell clamp technique. The study was particularly focused on changes in gap junction conductance caused by cytoplasmic changes in Ca2+ and pH.

1995

Ph.D. in Physiological Sciences, attending the electrophysiology laboratories of the Department of General Physiology and Biochemistry, University of Milan. Fields of study are: the analysis of subcellular calcium distribution and the mechanisms underlying its regulation. The techniques used are fluorescent image analysis and patch-clamp.
Internship and license to practice as a biologist.

1996

Short term fellowship of the Human Frontier Science Program at the laboratory of Prof. P. McNaughton, Dept. of Physiology King's College, London studying The mechanisms of sensory transduction in rat DRG

thermo-nociceptors, using confocal microscopy and patch-clamp techniques.

1996-2023

University Researcher disciplinary field BIO/09 (05/D1), at the University of Insubria.
- Department of Structural and Functional Biology, Laboratory of Cell and Molecular Physiology: modulation of ion channels by second messengers;
- Department of Biotechnology and Molecular Sciences, laboratory of cellular and molecular physiology, relation structure function of neurotransmitter transporters, ligand-receptor interaction.
- Department of Theoretical and Applied Sciences, laboratory of cell physiology: identification and characterisation of antibacterial peptides extracted from invertebrates.
Department of Biotechnology and Life Sciences, comparative pathophysiology laboratory: mechanisms of phagocytosis in insect hemocytes.

Techniques used are: patch-clamp, heterologous expression, double-electrode voltage-clamp, fluorescence microscopy, confocal microscopy, FRET, NMR.

TEACHING ACTIVITIES

In charge of teaching activity in the electrophysiology module of the course Laboratory of Experimental Biology II (5 CFU), of the Bachelor of Science in Biological Sciences Faculty MM. FF. NN., University of Insubria, ranging from AY 1995/96 to 2000/01.

Assistant professor of the course of Cellular Physiology (5 CFU), in the degree course in Biological Sciences Faculty of Sciences MM. FF. NN., University of Insubria in the AY 1999/2000, 2001/02, 2002/03, 2003/04, 2004/05, 2005/06, 2006/07, 2007/08, 2008/09, 2009/10, 2010/11, 2011/12.

Assistant professor in the course of Structural and Functional Biology (physiology module 1 CFU), in the degree course in Biological Sciences, Faculty of Sciences MM. FF. NN., University of Insubria, in the AY 2001/02.

Assistant professor of the General Physiology course (5 CFU), in the degree course in Biological Sciences, Faculty of Sciences MM. FF. NN., University of Insubria in the AY 2002/03.

Assistant professor of the course of Integrated Physiological Systems (3 CFU), in the undergraduate course in Biological Sciences Faculty of Sciences MM. FF. NN., University of Insubria in the AY 2003/04, 2004/05, 2005/06, 2006/07, 2007/08, 2008/09, 2009/10

Assistant professor of the course of Cellular Physiology (6 CFU), in the master's degree course in Biology Faculty of Sciences MM. FF. NN., University of Insubria in AY 2010/11, 2011/12, 2012/13, 2013/14.

Assistant professor of the course of Comparative Physiology (2.5 CFU), in the degree course in Biological Sciences, Faculty of Sciences MM. FF. NN., University of Insubria in the AY 2007/08

Member of the examination committees of the courses of Cellular Physiology (since 1993), General Physiology (since 1996), Laboratory of Physiological Techniques (since 1996), Laboratory of Experimental Biology II (since 1995), Molecular Physiology (since 2000), Comparative Physiology (since 2000), Biophysics (since 2003), Integrated Physiological Systems (since 2003).

Rapporteur and co-rapporteur of several experimental dissertations at the Faculties of Sciences MM. FF. NN., University of Milan and University of Insubria from 1993 to present.

Collaborated in supervising several experimental Ph.D. theses in Physiological Sciences and in Evolutionary and Developmental Biology at the Faculties of Sciences MM. FF. NN., University of Milan and University of Insubria from 1996 to present.

Teaching seminars in the Ph.D. courses in physiological sciences (2001) and Ph.D. courses in cell and molecular biology (1998, 2001) at the University of Milan.

Cycles of theoretical-practical lectures in the School of Physiology and Biophysics organised by the Italian Society of Physiology: 1997 course (Perugia) and 2000 course (Varese).

Cycles of lectures in the courses of Laboratory of Physiological Techniques and Cell Biology of the degree course in Biological Sciences, Faculty of Sciences MM. FF. NN., University of Insubria.

Lecture cycles in the course of Biophysics of the degree course in Biotechnology, Faculty of Sciences MM. FF. NN., University of Insubria.

Lecture cycles in the course of Laboratory of Pharmacological and Physiological Techniques of the degree course in Biological Science and Technology, Faculty of Sciences MM. FF. NN., University of Insubria. in the AY 2014/2015, 2015/16.

Lecture cycles in the course of Cellular Techniques in Biomedical Research of the degree course in Biological Sciences, DBSV, University of Insubria, , in the AY 2016/17, 2017/18, 2018/19, 2020/21, 2021/22, 2022/23.

Lecture cycles in the course of Cellular Techniques of the degree course in Biological Sciences, DBSV, University of Insubria, , in the AY 2019/20, 2020/21, 2021/22.

Assistant professor of the course of Comparative Physiology (6 CFU), in the degree course in Biological Sciences, DBSV, University of Insubria in the AY 2015/16, 2016/17, 2017/18, 2018/19, 2019/20, 2020/21, 2021/22, 2022/23.

Lecture cycles in the course of Pathophysiology and Physiological Techniques of the Bachelor of Science in Biological Sciences, DBSV, University of Insubria, in the AY 2019/20, 2020/21, 2021/22, 2022/23.

Lecturer of the Teaching Lab: Introduction to Sounding in the Multimedia World, of the undergraduate course in Communication Sciences, DiSUIT, University of Insubria, in the AY 2022/23.

INSTITUTIONAL ACTIVITIES

1999-2001 Researcher representative in Faculty Council of Science MM. FF. NN. of the University of Insubria.

1999-2001 implementation of the website of the Department of Structural and Functional Biology and development of a teaching innovation project concerning the distribution of course materials via the web.

1999-2007 member of the IT committee of the Department of Structural and Functional Biology of the University of Insubria.

Since 2001 member of the Board of Lecturers of the PhD School in Evolutionary and Developmental Biology now PhD in Cellular and Molecular Biology at the Dept. of Structural and Functional Biology, University of Insubria.

November 2002, member in the selection board of the comparative evaluation procedure for one researcher position for the disciplinary field BIO/09 at the Faculty of Sciences MM. FF. NN. of the University of Milan.

Researcher representative on the Board of the Department of Structural and Functional Biology of the University of Insubria from 2002 to 2007.

From 2003-2006 in charge of tutoring for students participating in the Erasmus project as part of the Degree Courses in Biological Sciences and Biotechnology at the Faculty of Sciences MM. FF. NN. of the University of Insubria.

Since 2004 member of the International Relations Committee of the University of Insubria.

Since 2007 responsible for Erasmus+ for the degree program in Biological Sciences at the University of Insubria.

2010-2012 university representative for the29april network.

2012 member of the rectoral committee related to the remuneration of RUs.

2013-2017 member of the faculty board of the doctoral school in Clinical and Experimental Medicine and Medical Humanities at the University of Insubria.

Since 11/2022 member of the committee for the evaluation of economic progression of professors and researchers.

Pubblications

A. Peres and S. Giovannardi
Mitogen-induced oscillations of membrane potential and Ca2+ in human fibroblasts.
(1990) FEBS Lett. 261, 35-38.

S. Giovannardi, C. Racca, L. Bertollini, E. Sturani and A. Peres
P2y purinoceptors in normal NIH 3T3 and in NIH 3T3 overexpressing c-ras
(1992) Exp. Cell Res. 202, 398-404.

A. Peres, S. Giovannardi, L. Bertollini, C. Racca
Tecniche microfluorimetriche per la misura ed il controllo del calcio citosolico
(1992) Approcci Molecolari allo Studio dei Canali Ionici, a cura di A. Volterra, G. Racagni, Pytagora Press, chapter 13, 115-125.

A. Lazrak, A Peres, S. Giovannardi and C. Peracchia
Ca2+ mediated and independent effects of arachidonic acid on gap junction conductance and Ca2+ independent effects of oleic acid and halotane
(1994) Biophysical Journal 67, 1052-1059.

S. Giovannardi, P. Cesare and A. Peres
Rapid synchrony of nuclear and cytosolic Ca2+ signals activated by muscarinic stimulation in the uman tumour line TE671/RD
(1994) Cell Calcium 16, 491-499.

A. Peres, and S. Giovannardi
Characteristics of the signal trasduction system activated by ATP receptors in the hepatoma cell line N1S1-67

(1995) Biochimica et Biophysica Acta 1265, 33-39.

A. Lazrak, A. Peres, S. Giovannardi, and C. Peracchia
Calcium participation in ATP and arachidonic acid but not in oleic acid and halotane induced gating of gap junctions in Novikoff cells
(1995) Intercellular communication through gap junctions. Progress in cell research Amsterdam: Elsevier Science. (4), 451-454.

S. Giovannardi, A. Peres
Nuclear and cytosolic calcium levels in NIH 3T3 fibroblasts
(1997) Exp. Biol. Online 2, 9.

S. Giovannardi, L. Landò, and A. Peres
Flash photolysis of caged compounds: casting light on physiological processes
(1998) News In Physiological Sciences 13, 251-255.

S. Giovannardi, L. Pollegioni, F. Pomati, C. Rossetti, S. Sacchi, L. Sessa and D. Calamari
Toxic cyanobacterial blooms in lake Varese (Italy): a multidisciplinary approach
(1999) Environmental toxicology and water quality 14, 127-134.

E. Bossi, E. Centinaio, M. Castagna, S. Giovannardi, S. Vincenti, F. Sacchi and A. Peres
Ion biding and permeation through the lepidopteran amino acid transporter KAAT1 expressed in xenopus oocites
(1999) Journal of Physiology 515.3, 729-742.

F. Pomati, S. Sacchi, C. Rossetti, S. Giovannardi, H. Onodera, Y. Oshima, and B. A. Neilan
The freshwater cyanobacterial Planktothrix sp. FP1: molecular identification and detection of paralytic shellfish poisoning toxins
(2000) Journal of Phycology 36: 553-562.

G. Forlani, E. Bossi, C. Perego, S. Giovannardi and A. Peres

Three kinds of currents in the canine Betaine/GABA transporter BGT-1 expressed in Xenopus laevis oocytes
(2001) Biochimica et Biophysica Acta 1538: 172-180.

G. Forlani, E. Bossi, R. Ghirardelli, S. Giovannardi, F. Binda, L. Bonadiman, L. Ielmini and A. Peres
Mutation K448E in the external loop 5 of rat GABA transporter rGAT1 induces pH sensitivity and alters substrate interaction
(2001) The Journal of Physiology 536.2, 479-494.

S. Giovannardi, G. Forlani, M. Balestrini, E. Bossi, R. Tonini, E. Sturani, A. Peres and R. Zippel
Modulation of the inward rectifier potassium channel IRK1 by the Ras signalling pathway
(2002) Journal of Biological Chemistry 277(14): 12158-63.

F. Binda, E. Bossi, S. Giovannardi, G. Forlani and A. Peres
Temperature effects on the presteady-state and transport-associated currents of GABA cotransporter rGAT1
(2002) Febs Letters 512(1-3): 303-7.

E. Bossi, S. Giovannardi, F. Binda, G. Forlani and A. Peres
Role of anion-cation interaction on the pre-steady-state currents of Na+-Cl--dependent GABA cotransporter rGAT1
(2002) The Journal of Physiology 541.2, 343-350.

R. Fesce, S. Giovannardi, F. Binda, E. Bossi and A. Peres
The relation between charge movement and transport-associated currents in the rat GABA cotransporter rGAT1
(2002) The Journal of Physiology 545.3, 739-50.

S. Giovannardi, R. Fesce, E. Bossi, F. Binda and A. Peres
Cl- affects the function of the GABA cotransporter rGAT1 but preserves the mutual relation between transient and transport currents
(2003) Cellular and Molecular Life Science 60, 550-556.

A. Peres, S. Giovannardi, E. Bossi, and R. Fesce

Electrophysiological insights into the mechanism of ion-coupled cotransporters
(2004) News in Physiological Sciences 19:80-4.

A. Soragna, E. Bossi, S. Giovannardi, R. Pisani, A. Peres.
Relations between substrate affinities and charge equilibration rates in the rat GABA cotransporter GAT1.
(2005) Journal of Physiology 562(Pt 2):333-45.

A. Soragna, E. Bossi, S. Giovannardi, R. Pisani and A. Peres
Functionally independent subunits in the oligomeric structure of the GABA cotransporter rGAT1
(2005) Cellular and Molecular Life Science 62, 2877-2885.

Bossi E, Soragna A, Miszner A, Giovannardi S, Frangione V, Peres A.
Oligomeric structure of the neutral amino acid transporters KAAT1 and CAATCH1.
American Journal of Physiology, Cell Physiology. 2007 Apr; 292(4):C1379-87.

Miszner A, Peres A, Castagna M, Bettè S, Giovannardi S, Cherubino F, Bossi E.
Structural and functional basis of amino acid specificity in the invertebrate cotransporter KAAT1.
Journal of Physiology. 2007 Jun 15;581(Pt 3):899-913.

Giovannardi S, Soragna A, Magagnin S, Faravelli L.
Functional expression of type 1 rat GABA transporter in microinjected Xenopus laevis oocytes.
Methods in Molecular Biology. 2007;375:235-55. Review.

Cherubino F, Miszner A, Renna MD, Sangaletti R, Giovannardi S, Bossi E.
GABA transporter lysine 448: a key residue for tricyclic antidepressants interaction.
Cell Mol Life Sci. 2009 Dec;66(23):3797-808.

Sacchi S, Cappelletti P, Giovannardi S, Pollegioni L.

Evidence for the interaction of D-amino acid oxidase with pLG72 in a glial cell line
Mol Cell Neurosci. 2011 Sep;48(1):20-8. Epub 2011 Jun 12.

Airoldi C, Giovannardi S, La Ferla B, Jimenez-Barbero J, Nicotra F.
Saturation Transfer Difference NMR experiments of membrane proteins in living cells under HR-MAS conditions: The interaction of the SGLT1 cotransporter with its ligands
Chemistry. 2011 Nov 25;17(48):13395-9. doi: 10.1002/chem.201102181. Epub 2011 Oct 27.

Mastore M, Binda Rossetti S, Giovannardi S, Scarì G, Brivio MF.
Inducible factors with antimicrobial activity after immune challenge in the haemolymph of Red Palm Weevil (Insecta).
Innate Immun. 2014 Aug 10. pii: 1753425914542446. [Epub ahead of print]

Gariboldi MB, Taiana E, Bonzi MC, Craparotta I, Giovannardi S, Mancini M, Monti E.
The BH3-mimetic obatoclax reduces HIF-1α levels and HIF-1 transcriptional activity and sensitizes hypoxic colon adenocarcinoma cells to 5-fluorouracil.
Cancer Lett. 2015 Aug 10;364(2):156-64. doi: 10.1016/j.canlet.2015.05.008. Epub 2015 May 12. PMID: 25979228

Bondi H, Zilocchi M, Mare MG, D'Agostino G, Giovannardi S, Ambrosio S, Fasano M, Alberio T.
Dopamine induces mitochondrial depolarization without activating PINK1-mediated mitophagy.
J Neurochem. 2015 Dec 28. doi: 10.1111/jnc.13506. [Epub ahead of print] PMID: 26710242

Brivio MF, Toscano A, De Pasquale SM, De Lerma Barbaro A, Giovannardi S, Finzi G, Mastore M.
Surface protein components from entomopathogenic nematodes and their symbiotic bacteria: effects on immune responses of the greater wax moth, Galleria mellonella (Lepidoptera: Pyralidae).
Pest Manag Sci. 2018 Mar 8. doi: 10.1002/ps.4905. [Epub ahead of print]

De Lerma Barbaro A, Gariboldi MB, Mastore M, Brivio MF, Giovannardi S. In Vivo Effects of A Pro-PO System Inhibitor on the Phagocytosis of Xenorhabdus Nematophila in Galleria Mellonella Larvae.
Insects. 2019 Aug 22;10(9):263. doi: 10.3390/insects10090263. PMID: 31443446

PATENTS

Nicotra F., Airoldi C., La Ferla B., Jimenez-Barbero J., Giovannardi S., Metodo NMR con sonda HR-MAS su cellule integre. 2010, RM2010A000647.
Nicotra F.

COMMUNICATIONS AT CONFERENCES

A. Peres, T. Pallotta, S. Giovannardi and R. Zippel
Membrane potential oscillations induced by serum in human skin fibroblasts.
Riunione primaverile della Società Italiana di Fisiologia Firenze 1989.
European Journal of Cell Biology, Supplement 28 (Vol. 49), 1989.

A. Peres, S. Giovannardi, T. Pallotta, D. Janigro and E. Sturani
Simultaneous measurements of cytosolic Ca2+ and membrane current in human fibroblasts stimulated with bradykinin.
VIII Meeting of the Italian Association for Cell Biology and Differentiation, Salsomaggiore Terme (Parma) 16-19 October 1989

S. Giovannardi, C. Racca, L. Bertollini, E. Sturani and A. Peres
P2y-purinoceptors in normal fibroblasts (NIH 3T3) and in fibroblasts overexpressing c-ras
Riunione primaverile della Società Italiana di Fisiologia Firenze 1992

S. Giovannardi, P. Cesare and A. Peres
Nuclear calcium changes in mitogen-stimulated NIH 3T3 fibroblasts.
Meeting on “Intracellular channels organelles and cell function” Trieste 21-23 April 1993

A. Peres, S. Giovannardi, A. Lazrak* and C. Peracchia*

ATP receptors coupled to Ca2+ signalling and Ca2+ activated K+ channels in novikoff hepatoma cells.
Riunione primaverile della Società Italiana di Fisiologia Firenze 1993

S. Giovannardi, P. Cesare and A. Peres
Cytosolic and nuclear calcium changes in mitogen-stimulated NIH 3T3 fibroblasts.
Riunione primaverile della Società Italiana di Fisiologia Firenze 1993.

A. Lazrak, A. Peres, S. Giovannardi, C. Peracchia
Partial uncoupling, increase in calcium and activation of K+ (Ca) channels with ATP-induced stimulation of purinergic receptors linked to IP3 turnover.
Proceedings of the 1993 International Meeting on Gap Junctions.
Hiroshima, Japan. August 55.

A. Lazrak, A. Peres, S. Giovannardi, C. Peracchia
ATP induces Ca2+ increase, activation of K+ (Ca) channels and partial uncoupling between pairs of electrically coupled hepatoma cells.
Fourth European Congress of Cell Biology. Prague, Czech Republic, June 26 - July 1, 1994.

A. Lazrak, A. Peres, S. Giovannardi & C. Peracchia
ATP induces Ca2+ increase, activation of K+(Ca) channels and partial uncoupling between pairs of electrically coupled hepatoma cells.
XI Meeting of the Italian Association for Cell Biology and Differentiation, Milano 16-19 September 1993.

S. Giovannardi, P. Cesare and A. Peres
Nuclear calcium changes in mitogen-stimulated NIH 3T3 fibroblasts.
XI Meeting of the Italian Association for Cell Biology and Differentiation, Milano 16-19 September 1993.

A. Lazrak, A. Peres, S. Giovannardi and C.Peracchia
Partial uncoupling, increase in calcium and activation of K+(Ca) channels with ATP-induced stimulation of purinergic receptors linked to IP3 turnover.
Ivth European Cell Biology Congress, Prague, June 26th- July 1st 1994.

C. Peracchia, A. Lazrak, A. Peres, S. Giovannardi, X. G. Wang and L. L. Peracchia
Potential role of Ca2+ and calmodulin in gap junction regulation.
Workshop on Intercellular Communication Puschino, Russia 26 August - 1 September 1994.

C. Peracchia, A. Lazrak, A. Peres, S. Giovannardi, X. G. Wang and L. L. Peracchia
Chemical regulation of gap junction channel permeability.
International Congress of Eye Research New Delhi 13-18 November 1994.

A. Peres, E. Centinaio and S. Giovannardi
GTP elicits a calcium-release-activated-calcium current (Icrac) in xenopus oocytes.
Riunione primaverile della Società Italiana di Fisiologia Firenze 1995

F. Pomati, S. Sacchi, C. Rossetti, S. Giovannardi, B.A. Neilan
...and now saxitoxin producing cyanobacteria in Europe.
4th International Conference on Toxic Cyanobacteria, Beaufort, North Carolina, USA, 27/9-1/10, 1998.

S. Giovannardi, G. Forlani, E. Bossi, A. Peres
Modulation of the inward rectifier potassium channel IRK1 by the Ras cascade
Riunione primaverile della Società Italiana di Fisiologia Firenze 15-17 febbraio 1999.

E. Bossi, S. Vincenti, S. Giovannardi, F. Sacchi and A. Peres.
Na+ and K+ binding and permeation at the lepidopteran amino acid transporter KAAT1 expressed in Xenopus oocytes
Convegno Società Italiana di Fisiologia, Firenze 15-17 febbraio 1999

S. Compasso, S. Giovannardi, G. Colombo, C. Rossetti, R. Scorza
HLA-class I molecules differently influence intracellular calcium signalling
13th European Histocompatibility Conference April 13-17, 1999, Aghia Pelaghia, Crete.

S. Giovannardi, G. Forlani, E. Bossi, A. Peres

Modulation of the inward rectifier potassium channel IRK1 by the Ras cascade
European Congress of Cell Biology, May 8-11, 1999 - Bologna, Italy.

S. Giovannardi, G. Forlani, M.Balestrini, E. Bossi, A. Peres, R. Tonini, S. Denis-Donini, D. C. Johns, R. Zippel.
Modulation of the inward rectifier potassium channel IRK1 by the Ras pathway
Society for Neuroscience 29th annual meeting, 1999 October 23-28, Miami Beach, Florida, U.S.A.

G. Forlani, P. Camelliti, M. Balestrini, A. Peres, R. Zippel & S. Giovannardi
Modulation of the inward rectifier potassium channel IRK1 by the Ras pathway
The Physiological Society, King's College London U.K. 18th to 20th December 2000.

E. Bossi, G. Forlani, C. Perego, S. Giovannardi and A. Peres.
Electrophysiological properties of the canine beatine/GABA transporter expressed in Xenopus leavis oocytes
Convegno Società Italiana di Fisiologia, Firenze 9-11 febbraio 2000

S. Giovannardi, G. Forlani, P. Camelliti, L. Filippini E. Bossi, M. Balestrini, R. Zippel, A. Peres.
Modulation of the inward rectifier potassium channel IRK1 by the Ras pathway
Convegno Società Italiana di Fisiologia, Firenze 9-11 febbraio 2000

G.Forlani, E. Bossi, R. Ghirardelli, A. Peres, S. Giovannardi.
Mutations in specific aminoacid residues confer pH sensitivity to the rat GABA cotrasporter rGAT1
Proteine 2000 XV Meeting of the Workgroup on Structure and Function of Proteins of the Italian Society of Biochemistry and Molecular Biology, VARESE 16-18 Aprile 2000

G. Forlani, E. Bossi, R. Ghirardelli, S. Giovannardi, F. Binda, L. Ielminiand A. Peres

pH sensitivity conferred to rGAT1 GABA transporter by mutation in the extracellular loop 5.
Società Italiana di Fisiologia, XXVIII Spring Meeting, Firenze 12-14 Febbraio 2001.

S. Giovannardi, G. Forlani, E. Bossi, R. Ghirardelli, F. Binda, L. Bonadiman and A. Peres
K448E mutation in the extracellular loop 5 rgat1 gaba transporter induces alterations in interactions of substrates
Società Italiana di Fisiologia, XXVIII Spring Meeting, Firenze 12-14 Febbraio 2001.

F. Binda, E. Bossi, S. Giovannardi, G. Forlani and A. Peres
Na+ / Cl- effects on the Neuronal GABA cotransporter rGAT1
Meeting della Società Italiana di neuroscienze, Torino 8-11 settembre 2001.

S. Giovannardi, G. Forlani, M. Balestrini, E. Bossi, R. Tonini, E. Sturani, A. Peres and R. Zippel
Modulation of the inward rectifier potassium channel IRK1 by the Ras signalling pathway USGEB, Lugano 7-8 marzo 2002

F. Binda, E. Bossi, S. Giovannardi, G.Forlani and A. Peres
Na+ and Cl- interactions at the neuronal GABA cotransporter rGAT1
USGEB, Lugano 7-8 marzo 2002

R. Fesce, E. Bossi, F. Binda, S. Giovannardi, and A. Peres
A simple relationship between charge movement and transport-associated current in the neural GABA cotransporter rGAT1
International School of Biophysics, Excitability secretion and Transport: molecules to medication, Erice 3-11 April, 2002

E. Bossi, R. Fesce, S. Giovannardi, F. Binda and A. Peres
Complementarity of charge movement and transport current in the neural GABA cotransporter rGAT1
International School of Biophysics, Excitability secretion and Transport: molecules to medication, Erice 3-11 April, 2002

F. Binda, R. Fesce, S. Giovannardi, E. Bossi, A. Peres

Transport associated and pre-steady-state currents in the GABA cotransporter rGAT1 are simply related
ELSO conference, Nice 29 June-3 july, 2002

S. Giovannardi, G. Forlani, F. Binda, E. Bossi, R. Zippel, A. Peres
Modulation of the inward rectifier potassium channel IRK1 by the Ras signalling pathway
ELSO conference, Nice 29 June-3 july, 2002

E. Bossi, F. Binda, S. Giovannardi, A. Peres
Studies of molecular process involved in the GABA translocation: the temperature effect on the pre-steady-state, transport associated current and uptake of rGAT1
International Meeting, Transporter 2002, 1-5 September 2002 Kloster Seeon, Germany

A. Peres, E. Bossi, S. Giovannardi, F. Binda and R. Fesce
Quantitative relation between transport-associated and pre-steady–state currents in the GABA contransporter rGAT1
International Meeting, Transporter 2002, 1-5 September 2002 Kloster Seeon, Germany

R. Fesce, E. Bossi, F. Binda, S. Giovannardi and A. Peres
A simple relationship between charge movement and transport-associated current in the neural GABA cotransporter rGAT1
53^ congresso della Società italiana di Fisiologia, Ferrara 9-11 settembre 2002

E. Bossi, F. Binda, S. Giovannardi and A. Peres
Temperature effect on the pre-steady-state and transport associated current of the GABA cotransporter rGAT1
53^ congresso della Società italiana di Fisiologia, Ferrara 9-11 settembre 2002.

A. Soragna, E. Valli, M. Castagna, S. Mari, S. Giovannardi, E. Bossi and A. Peres.
Structural domains involved in substrate selectivity in two neutral amino acid transporters

3rd congress of the Federation of European Physiological Societies, 28 june – 2 july 2003 Nice, France.

R. Pisani, S. Giovannardi, R. Fesce, E. Bossi, F. Binda and A. Peres.
Chloride effects on the function of the GABA cotransporter rGAT1
3rd congress of the Federation of European Physiological Societies, 28 june – 2 july 2003 Nice, France.

A. Peres, S. Giovannardi, E. Bossi, F. Binda, R. Fesce.
Molecular physiology of the GABA cotransporter rGAT1
8th International Congress on Amino Acids and Proteins, 5-9 September, 2003, Rome (Italy)

E. Bossi, A. Soragna, R. Pisani, S. Giovannardi, D. Fesce, A. Peres.
The link between transient and transport currents in the GABA cotransporter rGAT1 is preserved in low chloride.
51 ^ Benzon Symposium. Copenhagen, August 9-12, 2004

A. Soragna, R. Pisani, S. Giovannardi, E. Bossi, R. Fesce, A. Peres.
Relation between substrates affinity and charge equilibration rates in the GABA transporter rGAT1.
Transporter 2004, Cambridge 2-6 september 2004.

A. Soragna, R. Pisani, S. Giovannardi, E. Bossi, R. Fesce and A. Peres
The relationship between turnover rate and substrate affinities in the GABA transporter rGAT1
55^ congresso della Società italiana di Fisiologia, Pisa 4-7 ottobre 2004

S. Giovannardi, A. Soragna, E. Bossi, A. Peres
THE FUNCTIONAL UNIT IN THE OLIGOMERIC STRUCTURE OF THE GABA TRANSPORTER rGAT1 IS THE MONOMER
56° Congresso della Società Italiana di Fisiologia, Palermo 27 - 30 Settembre 2005

A. Bossi, A. Soragna, S. Giovannardi, V. Frangione, A Miszner, A. Peres
Oligomerization and independent of the two neutral amiono acid transporters CAATCH1 and KAAT1.

Joint meeting of the German Society of Physiology and the Federation of European Physiological Societies, March 26-29, 2006, Munich, Germany

S. Giovannardi, V. Frangione, E. Bossi, A. Miszner, A. Soragna and A. Peres Homo- and heterooligomerisation between some members of the Na+/Cl--dependent transporter family, KAAT1, CAATCH1 and rGAT1, seen as FRET. Transporters 2006 September 6-9 Parma, Italy

A. Miszner, S. Giovannardi, E. Bossi, F. Cherubino and A. Peres. Multiple action of tricyclic antidepressants on exogenously expressed GABA transporter rGAT1 and endogenous ionic channels in Xenopus oocytes. SFB35 symposium, 2008 September 26-28 Vienna, Austria.

C.Airoldi, S. Giovannardi, B. La Ferla, J. Jiménez-Barbero and F. Nicotra Saturation Transfer Difference NMR experiments of membrane proteins in living cells under HR-MAS conditions: The interaction of the SGLT1 cotransporter with its ligands.
Small Molecule NMR Conference, September 18-21 2011, Chamonix, France.

STEFANO GIOVANNARDI - ARTISTIC CV

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PROFILE

Stefano Giovannardi, aka STRUCTURE, born in Milan on 17/02/1965 began composing music at the age of 17, then embarked on a different career, biologist, researcher and lecturer, but music always remained a firm reference.

EXPERIENCE

1975-1990

Two years of classical piano studies, then self-taught electric bass and electric guitar, has been interested since the early 1980s in synthesizers, electronic drums, samplers and sequencers, gaining his first experiences in sound synthesis and electronics applied to music.

Artistic activity begins in the early 1980s where he takes care of the composition, artistic production, performance, magnetic tape recording and mixing of several tracks culminating in the self-production of a cassette entitled "gather up the threads," by the new wave duo "texcoco" of which he is the co-founder. The track "tanning boys" was included in the compilation "Voyage through the deep 80s underground in Italy (Lombardia), released in 2020 by Spittle Records.

In the same years he collaborated with another group from the Milanese new wave scene called "Braque" where a young Cesare Malfatti later founder of "la crus" also played.

In 1982 he is at the mixer and tapes in the play "La mosca" directed, text and acting by, a then newcomer, Claudio Bisio.

1990-2009

In these years with the advent of the digital era he continues the study of electronic instruments and hardware and software acquisition systems for music production, using Cakewalk software, and various virtual VST instruments (Waves, Native Instrument and others) born in those years; in the same period he founds the duo "electro" with which he will make three albums in CD format: QPO, EOS and Bedmate serenade. The role is always that of composer, artistic producer, musician and sound engineer. In these years he begins to set up a personal recording studio that will take shape over the years and will become the eV studio, where tracks are recorded, mixed and the mastered.

2010-2015

Is the co-founder of the rock-industrial-electronic band "The psychophonic nurse" with which he will make the CD entitled "spacemaker" always as a musician, artistic producer, sound engineer, backing vocalist and co-writer of the lyrics, also made in the eV studio he owns. At this stage the production switches to the use of a new software environment Ableton Live in which he will specialise in the years to come. In these years he will also carry out a live performance activity together with this band.

2015

Co-production of the song "satiated" by the noise-rock band Zidima released on the album "buona sopravvivenza" by I dischi del minollo.

2017

Curates the artistic production of the album "canzoni perse" by Cesare Malfatti (la crus) and participates in several dates of the Italian tour to promote the album. Released by Riff Records.

2018

Performs mixing and mastering of the album "lezziero." by Luca Lezziero and produced by Cesare Malfatti. Published by Riff Records.

2019

Participates, along with many other artists, in Alex Cremonesi's (la crus) project "la prosecuzione della poesia con altri mezzi" published by Riff Records.

Together with Luca Lezziero, he gives life to the project Due that blends songwriting and electronic music and produces the album "due." Self-produced.

2020

Under the pseudonym structure produces a solo album entitled "mindscore" where he will also enter the role of singer and author of the lyrics in addition to everything else. Also follows the production of two video clips in the role of creator, director and editor. Self-produced.

2021

Still under the pseudonym structure makes the album "XX" involving ten Italian female singer-songwriters who participate by writing the lyrics and composing the vocal parts. Released by Riff Records. The album was presented in a live performance in January 2022.
Composition of a song on recited words, lyrics written by zichietto, entitled "la paura".

2022

Mixing and mastering of the album "hagus" by Nils.

2015-2020

Participates as author, co-writer and remixer of several tracks included and published in different compilations by: ephedrina netlabel, synth cafe, I dischi del minollo records.

EDUCATION

Classical piano 1975
High school diploma in electrical engineering 1983
Bachelor's degree in biological sciences 1990
Ph.D. in physiological sciences 1995

SKILLS

Use of various music software, cakewalk, logic pro, reaper, audacity, with a specialisation on Ableton Live. Knowledge of audio source recording techniques, mixing and mastering techniques, sound synthesis of different types (additive, subtractive, FM, sampling), programming of synthesisers and electronic drums, use of audio and MIDI sequencers and interfaces, use of control surfaces (push). Composer, arranger, sound designer, keyboardist, guitarist, bassist. Set up a stage for live music making. Owner of eV studio where he performs the roles of sound engineer and producer. Experience in using video editing and editing software, final cut pro.

LINKS TO PUBLICATIONS

STRUCTURE - XX

listen on spotify

STRUCTURE - MINDSCORE
listen on spotify

DUE - DUE
listen on spotify

CESARE MALFATTI - CANZONI PERSE
listen on spotify

ALESSANDRO CREMONESI - LA PROSECUZIONE DELLA POESIA CON ALTRI MEZZI
listen on spotify

ZIDIMA - BUONA SOPRAVVIVENZA
listen on spotify

LUCA LEZZIERO - LEZZIERO.
listen on spotify

THE PSYCHOPHONIC NURSE - SPACEMAKER
listen on bandcamp

ELETTRO - BEDMATE SERENADE
listen on bandcamp

ELETTRO - EOS
listen on bandcamp

ELETTRO - QPO
listen on bandcamp

TEXCOCO - GATHER UP THE THREADS
listen on bandcamp

COMPILATIONS
ephedrina netlabel - mostliciattoli - capped
ephedrina netlabel - 8 anni e non sentirli - grisp
i dischi del minollo - 50 e ascoltarli - inerti, comodi e vermi remix
synth café - distanza, connessione, creazione II - lullaby
synth café - distanza, connessione, creazione III - sidewind
synth café - distanza, connessione, creazione IV - luca I love you

ephedrina netlabel - 10 anni vol. 8 - free frame

VIDEOCLIPS

structure - Marte
structure - white peacock
structure - flat
structure - outer
due - argilla
cesare malfatti - novembre
cesare malfatti - 45 giri
zichietto - la paura