

## Curriculum vitae – Elsa Fabbretti

F | born in Trieste Italy 27/08/1969  
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### TITLES

22/12/1993	<b>University of Trieste</b> – Degree in Biology – 108/110
11/07/2001	<b>International School of Advanced Studies SISSA/ISAS Trieste</b> - PhD
2012-2016	<b>University of Nova Gorica Slovenia Faculty of Environmental Sciences</b> - Associate Professor
2018	<b>Italian University Ministry of Research MUR</b> - Habilitation for the appointment of Professor in Physiology (2018), Biochemistry (2016), Molecular Biology (2012)

### EDUCATION

2024-2025	<b>University of Padua – Course certificate in Bioethics</b> – Thesis in bioethics entitled DIGITAL TECHNOLOGIES IN THE HEALTH SECTOR, discussed on 12/09/2025
1995-1999	<b>International Center for Genetic Engineering and Biotechnology ICGEB Trieste</b> <sup>1</sup> - training in Molecular Biology methods, Protein Biochemistry, RNA and Viruses
2006	<b>Institute Curie – Paris</b> – mobility 6-weeks time – training in Immunology methods
1993-1995	<b>Inter-University Laboratory for Biotechnologies CIB Trieste</b> <sup>2</sup> - training in cell biology methods, cell microinjection and microscopy methods
1989-1993	<b>University of Trieste</b> - Faculty of Biology

### WORKING APPOINTMENTS IN SCIENCE

01/04/2017-31/03/2019	<b>University of Trieste – Life Science Dept</b> <sup>3</sup> – research in cellular neurobiology, training of young researchers, supervisor of 2 student's thesis, patent
01/02/2010-14/02/2017	<b>University of Nova Gorica Slovenia</b> <sup>4, 5</sup> – academic duties and teaching in Toxicology and Environmental Sciences; Director of the PhD program in molecular biotechnology; research in cellular neurobiology and protein biochemistry; training of young researchers; supervisor of 4 student's thesis, settings of new laboratories; fundraising and project writing, management and reporting of grants (INTERREG); dissemination and promotional activities
2002-2008	<b>International School of Advanced Studies SISSA/ISAS Trieste</b> <sup>6</sup> – research in cellular neurobiology, training of young researchers, supervisor of 9 student's thesis, management of grants (TELETHON)
2001-2002	<b>IRCCS Burlo Garofolo Hospital Trieste</b> – post-doc researcher in molecular biology

### WORKING APPOINTMENTS IN RESEARCH MANAGEMENT

01/08/2023	– <b>University of Trieste – Research Sector</b> – Management of PNRR project iNEST -
31/07/2026	INTERCONNECTED NORD-EST INNOVATION ECOSYSTEM, +11M euro grant; organisation of 4 grant calls for 23 projects in favor of 54 companies (+5M euro), a call for 10 projects for young researchers (450K euro), a Call4Ideas (75k euro),

<sup>1</sup> Fabbretti et al (1999) doi:10.1099/0022-1317-80-2-333 Citations 305

<sup>2</sup> Fabbretti et al (1995) doi:10.1101/gad.9.15.1846 Citations 218

<sup>3</sup> Fabbretti et al (2021) doi:10.3389/fnmol.2021.661728 Citations 7; Atzori et al. under review

<sup>4</sup> Malev et al (2012) doi: 10.1016/j.pestbp.2012.07.008 Citations 127

<sup>5</sup> Bele and Fabbretti (2015) doi:10.2174/0929867321666141011195351 Citations 57

Bele and Fabbretti (2016) doi: 10.1111/jnc.13680 Citations 23

<sup>6</sup> Fabbretti et al (2006) doi:10.1523/JNEUROSCI.0647-06.2006 Citations 199

31/12/2020 -11/07/2023	financial reporting, management of audit activities, dissemination activities, support to the PI leaders <b>University of Trieste – Health and Medical School</b> – Management of grant applications, financial project reporting of +10 projects; admin duties for recruitments of young researchers; management of PhD students fellowships
01/09/2020-30/12/2020	<b>University of Trieste – Life Science Dept</b> – Support to the PI / lead partner of the Innovative Training Network ITN project TRIM-NET (MSCA H2020-MSCA-ITN-2018), Data Management Plan, open access EU requirements, OpenAir and Zenodo, drafts of reports for the PI

Academic competences in teaching, research and third mission

Competences in research in biomedical and environmental sciences, pharmacology, physiology, biochemistry, cell and molecular biology

Author of 47 peer review scientific publications, with a total of 3.372 citations (h=28), author of 75 contributions in international conferences, with 15 oral contributions, 12 invited lectures, 1 patent

Competence in research management

Member of 8 evaluation committees for reviewing projects

Member of 20 evaluation committees for reviewing thesis and recruitment of personnel

Competences in projects management

Competences in financial reporting

Competences in communication and dissemination

Experience in communication with companies and stakeholders

Organisation of events, schools and conferences

Competences in bioethics and ethics of AI

#### Personal Self evaluation

I am an excellent hard worker, with good management abilities of complex tasks. I have a vast experience in different fields, thanks to my curiosity and willing to learn, and given by my attitude to be always open to new, different and even challenging questions.

I am able to expose concepts synthetically and to communicate properly, summarising directives and guidelines in effective manner. I am able to organise time in an efficient and proficient way to reach tangible objectives. I provide a positive and rationale attitude in problem solving. I am able to maximise the effectiveness and the impact of the actions. I like to promote value, to make an impact. I work with passion, posing enthusiasm, intuitions and creativity. I am flexible, resilient and enriched in negotiation skills. I work always in the respect of the roles and responsibilities, taking my personal risks. However, if requested, I strickly remain in the limits of the received orders and plans, recognising the added value of strategic views. Knowledge of English. Knowledge of Microsoft Office.

Trieste, February 2026

Dr Elsa Fabbretti, PhD



Annex: Bibliography, Evidences of what reported can be provided

## BIBLIOGRAPHY

Author of 47 scientific peer-review scientific articles (3.372 Citations, h=28)

<https://scholar.google.com/Citations?user=77D1hGIAAAAJ&hl=en>

TOPIC	REFERENCE
<b>BDNF DRUG DISCOVERY RNA</b>	<p>1. Atzori M Fabbretti E Ciraci V Zucchelli S Bon C Mikasinovic S Baj G Gustincich S Tongiorgi E 2026 Long non-coding SINEUP RNA enhancing BDNF translation prevents dendritic atrophy following an A<math>\beta</math>-peptide challenge <b>CELLULAR AND MOLECULAR LIFE SCIENCES</b> under review Patented Contribution: Experimental settings <i>Taking the advantage of the SINEUP RNA technology, we explored its potential to interfere with BDNF signaling in hippocampal neurons, in an in vitro model of Alzheimer disease</i></p> <p>Tongiorgi E Fabbretti E Ciraci V Gustincich S MOLECOLA DI ACIDO NUCLEICO FUNZIONALE CAPACE DI INCREMENTARE LA PRODUZIONE DI BDNF // FUNCTIONAL NUCLEIC ACID MOLECULE CAPABLE OF INCREASING BDNF PRODUCTION Fondazione Istituto Italiano di Tecnologia IIT and University of Trieste PATENT N IT102023000026952 18/12/2023 and INTERNATIONAL PATENT WO 2025/133858 A1 N. PCT/IB2024/062610</p>
<b>ALZHEIMER DRUG MECHANISM NEUROBIOLOGY</b>	<p>2. Fabbretti E Antognolli G Tongiorgi E 2021 Amyloid-<math>\beta</math> impairs dendritic trafficking of Golgi-like organelles in the early phase preceding neurite atrophy: rescue by mirtazapine <b>FRONTIERS IN MOLECULAR NEUROSCIENCE</b> 14:661728 doi: 10.3389/fnmol.2021.661728 Citations 9 <i>Using an in vivo live imaging platform, we explored in hippocampal neuronal cultures the ability of the drug mirtazapine to interfere with A<math>\beta</math>-related detrimental effects on the structural integrity of endoplasmic reticulum and on molecular motors</i></p>
<b>PAIN NEUROPHYSIOLOGY ASIC3 P2X3</b>	<p>3. Stephan G Huang L Tang Y Vilotti S Fabbretti E Yu Y Franke H Göröncsér F Sperlágh B Dopychai A Hausmann R Schmalzing G Rubini P Illes P 2018 A new type of pain-relevant ligand-gated cationic channel: the ASIC3/P2X3 tandem receptor <b>NATURE COMMUNICATION</b> 9 1 :1354 doi: 10.1038/s41467-018-03728-5. Citations 65 Contribution: Experimental settings and discussion <i>The paper explores the functional consequences of the cross-talk between pH-sensitive ASIC3 receptors and ATP-sensitive P2X3 channels in primary sensory neurons, suggesting the existence of cross-receptor functional integration of signalling at membrane level, between the two classes of receptors that jointly could shape the variety of the neuronal responses</i></p>
<b>CGRP MIGRAINE PHYSIOLOGY P2X3</b>	<p>4. Fabbretti E D'Arco M Fabbro A Simonetti M Nistri A Giniatullin R 2006 Delayed upregulation of ATP P2X3 receptors of trigeminal sensory neurons by calcitonin gene-related peptide <b>JOURNAL OF NEUROSCIENCE</b> 26(23):6163-6171 ISSN:0270-6474; doi: 10.1523/JNEUROSCI.0647-06.2006 Citations 202 <i>Using membrane protein biotinylation in primary cultures, the paper demonstrates for the first time that CGRP persistently potentiates pain receptors in sensory neurons. Since CGRP is an early biomarker of migraine in human patients, our findings remarked its importance in the disease, paving the way for the development of new biological drugs, based on monoclonal antibodies against CGRP, that are now</i></p>

**CGRP BIOMARKER  
MIGRAINE GENETICS P2X3**

**CGRP MIGRAINE GLIA  
PHARMACOLOGY**

**MIGRAINE ANIMAL  
MODEL PHYSIOLOGY  
P2X3**

**TRIGEMINAL SYSTEM  
NEUROBIOLOGY  
IN VITRO**

**NGF INFLAMMATORY  
PAIN NEUROBIOLOGY  
BIOCHEMISTRY P2X3**

*used to treat migraine patients. To date, CGRP has no direct effect on other pain channels.*

5. Simonetti M Giniatullin R Fabbretti E 2008 Mechanism mediating the enhanced transcription of P2X3 receptor gene by calcitonin gene related peptide in trigeminal sensory neurons **JOURNAL OF BIOLOGICAL CHEMISTRY** 283 4: 18743-18752 ISSN:0021-9258; doi: 10.1074/jbc.M800296200 Citations 121  
*Using a dominant negative mutant of the transcription factor CREB, we demonstrated that CGRP activates endogenous gene-expression in primary neurons supporting functional P2X3 up-regulation*
6. Ceruti S Villa G Fumagalli M Colombo L Magni G Zanardelli M Fabbretti E Verderio C van den Maagdenberg A Nistri A Abbracchio MP 2011 Calcitonin gene-related peptide-mediated enhancement of purinergic neuron/glia communication by the algogenic factor bradykinin in mouse trigeminal ganglia from wild-type and R192Q Cav2 1 Knock-in mice: implications for basic mechanisms of migraine pain **JOURNAL OF NEUROSCIENCE** 31, 3638-3649. ISSN:0270-6474; doi: 10.1523/JNEUROSCI.6440-10.2011 Citations 157  
*The work has explored the impact of neuron and glia co-culture on the release of soluble biomarkers relevant for migraine pain*
7. Nair A\* Simonetti M\* Birsa N Ferrari M van den Maagdenberg A Giniatullin R Nistri A Fabbretti E 2010 Familial hemiplegic migraine Cav2.1 channel mutation R192Q enhances ATP-gated P2X3 receptor activity of mouse sensory ganglion neurons mediating trigeminal pain **MOLECULAR PAIN** 6(1):48. ISSN:0272-4340, doi: 10.1007/s10571-009-9483-2 Citations 88  
*Characterisation of the genetic model of migraine*
8. Nair A\* Simonetti M\* Fabbretti E Nistri A 2010 The Cdk5 kinase downregulates ATP-gated ionotropic P2X3 receptor function via serine phosphorylation **CELLULAR AND MOLECULAR NEUROSCIENCE** 30(4):505-509. ISSN:1044-7431; doi: 10.1007/s10571-009-9483-2 Citations 32
9. Simonetti M Fabbro A D'Arco M Zweyer M Nistri A Giniatullin R Fabbretti E 2006 Comparison of P2X and TRPV1 receptors in ganglia or primary culture of trigeminal neurons and their modulation by NGF or serotonin **MOLECULAR PAIN** 2, 11. ISSN:1744-8069; doi: 10.1186/1744-8069-2-11 Citations 128  
*Setting and characterisation of the in vitro cellular model of primary sensory neurons*
10. D'Arco M Giniatullin R Simonetti M Fabbro A Nair A Nistri A Fabbretti E 2007 Neutralization of nerve growth factor induces plasticity of ATP-sensitive P2X3 receptors of nociceptive trigeminal ganglion neurons **JOURNAL OF NEUROSCIENCE** 27 31 : 8190-8201 ISSN:0270-6474 ISSN:0270-6474; doi: 10.1523/JNEUROSCI.0713-07.2007 Citations 109  
*By studying the NGF signaling and the effect of neutralising anti-NGF antibodies in primary sensory neurons, we demonstrated that NGF-TrkA signaling modifies the subunit composition of homomeric P2X3 and heteromeric P2X2/3 receptors, changing the subunit's mRNA splicing, receptor assembly, receptor phosphorylation and function in primary sensory neurons in culture and in vivo behavioural experiments*

**PAIN NEUROBIOLOGY  
BIOCHEMISTRY P2X3  
CASK**

**PAIN NEUROBIOLOGY  
BIOMARKER BNP**

**MIGRAINE PAIN  
INFLAMMATION**

11. D'Arco M Giniatullin R Leone V Carloni P Nistri A Fabbretti E 2009 The C-terminal Src inhibitory kinase Csk-mediated tyrosine phosphorylation is a novel molecular mechanism to limit P2X3 receptor function in mouse sensory neurons **JOURNAL OF BIOLOGICAL CHEMISTRY** 284 32: 21393-401 ISSN:0021-9258; doi: 10.1074/jbc.M109.023051 Citations 54  
*Taking the advantage of neutralising anti-NGF monoclonal antibodies and studying in neurons the cell signaling downstream TrkA receptor down-regulation, the paper identified a single P2X3 Tyr aminoacid residue sufficient to switch-off the function of pain-related mouse P2X3 channels. Unfortunately, the mechanism is not conserved in human P2X3 receptors*
12. Bele T Fabbretti E 2016 The scaffold protein CASK controls ATP release in sensory ganglia upon P2X3 receptor activation and is part of an ATP keeper complex **JOURNAL OF NEUROCHEMISTRY** 138 4: 587-597 ISSN:0022-3042; doi: 10.1111/jnc.13680 Citations 23  
*The key finding of the paper is the demonstration of a Panx1-mediated ATP efflux downstream the dynamic P2X3/CASK partnership. It is supposed that it may modulate the ambient concentrations of ATP having implication for the purinergic signaling and for the validation of the effectiveness of related drugs.*
13. Gnanasekaran A Bele T Hullugundi S van den Maagdenberg Arn MJM Nistri A Fabbretti E 2013 Mutated CaV2 1 channels dysregulate CASK/P2X3 signaling in mouse trigeminal sensory neurons of R192Q Cacna1a knock-in mice **MOLECULAR PAIN** 9:62 ISSN:1744-8069; doi: 10.1186/1744-8069-9-62 Citations 16
14. Gnanasekaran A Sundukova M Hullugundi S Birsa N Bianchini G Hsueh Y P Nistri A Fabbretti E 2013 Calcium/calmodulin-dependent serine protein kinase (CASK) is a new intracellular modulator of P2X3 receptors **JOURNAL OF NEUROCHEMISTRY** 126(1):102-12. ISSN:0022-3042; doi: 10.1111/jnc.12272 Citations 21  
Cover Image & Editorial highlight  
*The paper demonstrates that the functional activation of P2X3 receptor displaces the submembrane interaction with the scaffold protein CASK, considered therefore a dynamic interactor in sensory neurons*
15. Gnanasekaran A Sundukova M van den Maagdenberg A Fabbretti E Nistri A 2011 Lipid rafts control P2X3 receptor distribution and function in trigeminal sensory neurons of a transgenic migraine mouse model **MOLECULAR PAIN** 77. ISSN:1744-8069; doi: 10.1186/1744-8069-7-77 Citations 40  
Contribution: initial hypothesis and experimental settings  
*The paper explored the functional consequences of the gain of function mutation in Calcium ion channels on the clustering of P2X3 receptor in membrane nanodomains called lipid rafts in neurons*
16. Marchenkova A Vilotti S Fabbretti E Nistri A 2015 Brain natriuretic peptide constitutively downregulates P2X3 receptors by controlling their phosphorylation state and membrane localization **MOLECULAR PAIN** 11(1):71. ISSN:1744-8069; doi: 10.1186/s12990-015-0074-6 Citations 22
17. Franceschini A Vilotti S Ferrari MD van den Maagdenberg Arn MJM Nistri A Fabbretti E 2013 TNFalpha levels and macrophages expression

**NEURON-GLIA CROSS-TALK**

reflect an inflammatory potential of trigeminal ganglia in a mouse model of Familial Hemiplegic Migraine **PLOS ONE** 8.1 ISSN:1932-6203; doi: 10.1371/journal.pone.0052394 Citations 99

*The work has explored the concept of 'activity-dependent tissue remodelling' in sensory ganglia, demonstrating that electrical hyperexcitability in neurons drives the activation of inflammatory cells with the release of inflammatory mediators in the tissue driving neurogenic inflammation*

18. Franceschini A Hullugundi SK van den Maagdenberg AMJM Nistri A Fabbretti E 2013 Effects of LPS on P2X3 receptors of trigeminal sensory neurons and macrophages from mice expressing the R192Q Cacna1a gene mutation of familial hemiplegic migraine-1 **PURINERGIC SIGNALLING** 9(1):7-13. ISSN:1573-9538; doi: 10.1007/s11302-012-9328-1 Citations 33

19. Franceschini A Nair A Bele T Hullugundi SK van den Maagdenberg AMJM Nistri A Fabbretti E 2012 Functional crosstalk between macrophages and trigeminal sensory neurons of a mouse genetic model of migraine **BMC NEUROSCIENCE** 13 1 :143 ISSN:1471-2202; doi: 10.1186/1471-2202-13-143. Citations 42

20. Fabbretti E Sokolova E Masten L D'Arco M Fabbro A Nistri A Giniatullin R 2004 Identification of negative residues in the P2X3 ATP receptor ectodomain as structural determinants for desensitization and the Ca<sup>2+</sup>-sensing modulatory sites **JOURNAL OF BIOLOGICAL CHEMISTRY** 279(51):53109-15. ISSN:0021-9258; doi: 10.1074/jbc.M409772200 Citations 60

**SENSORY SYSTEM PAIN PHARMACOLOGY P2X3**

21. Sokolova E Skorinkin A Fabbretti E Masten L Nistri A Giniatullin R 2004 Agonist-dependence of recovery from desensitization of P2X3 receptors provides a novel and sensitive approach for their rapid up or downregulation **BRITISH JOURNAL OF PHARMACOLOGY** 141 6 1048-1058 ISSN:0007-1188; doi: 10.1038/sj.bjp.0705701

Citations 70 - Nominated one of the 5 best BJP articles of the year

*The paper demonstrates the concept of 'receptor conditioning' at sub-threshold concentrations and demonstrates high-affinity desensitisation properties of P2X3*

22. Medic N Lorenzon P Vita F Trevisan E Marchioli A Soranzo MR Fabbretti E Zabucchi G 2010 Mast cell adhesion induces cytoskeletal modifications and programmed cell death in oligodendrocytes **JOURNAL OF NEUROIMMUNOLOGY** 218 1-2 :57-66 ISSN:0165-5728; doi: 10.1016/j.jneuroim. 2009.10.011 Citations 27

**MULTIPLE SCLEROSIS INFLAMMATION GLIA**

23. Medic N Vita F Abbate R Soranzo MR Pacor S Fabbretti E Barelli V Zabucchi G 2008 Mast cell activation by myelin through scavenger receptor **JOURNAL OF NEUROIMMUNOLOGY** 200:27-40 ISSN:0165-5728; doi: 10.1016/J.JNEUROIM.2008.05.019 Citations 47

**AMIOTROPHIC LATERAL SCLEROSIS ALS NEUROPHYSIOLOGY**

24. Quitadamo C Fabbretti E Lamanauskas N Nistri A 2005 Activation and desensitization of neuronal nicotinic receptors modulate glutamatergic transmission on neonatal rat hypoglossal motoneurons **EUROPEAN JOURNAL OF NEUROSCIENCE** 22 11 :2723-34 ISSN:0953-816X; doi: 10.1111/j.1460-9568.2005.04460.x Citations 51

**CHROMAFFIN CELLS NEUROPHYSIOLOGY**

25. Di Angelantonio S Matteoni C Fabbretti E Nistri A 2003 Molecular biology and electrophysiology of neuronal nicotinic receptors of rat

**ATP IMAGING  
DRUG MECHANISMS  
NEURON-GLIA CROSS-  
TALK**

**P2X3  
BIOCHEMISTRY GENETICS  
NEUROPHARMACOLOGY**

**MUSCLE CELLS  
PURINERGIC SYSTEM  
OXIDATIVE STRESS**

**ATP IMAGING IN GLIA**

**CITO- TOXICITY ATP**

**CHARCOT MARIE TOOTH  
MECHANISM OF DISEASE  
GLIA**

chromaffin cells **EUROPEAN JOURNAL OF NEUROSCIENCE**  
17(11):2313-22. ISSN:0953-816X;  
doi: 10.1046/j.1460-9568.2003.02669.x Citations 96

26. Nowodworska A Van den Maagdenberg A MJM Nistri A Fabbretti E 2017 In situ imaging reveals properties of purinergic signaling in trigeminal sensory ganglia in vitro **PURINERGIC SIGNALING** 13 4 511-520 doi: 10.1007/s11302-017-9576-1 Citations 17  
*The work has explored the ATP signalling by means of the purinergic pharmacology and the Secrete & Sense paradigm. In situ imaging of reversible P2X-agonist-evoked pore formation in primary neuronal cultures allowed to measure the spatial dynamics and the inter-cell signalling based on ATP release. Although not exhaustive, this work validated a new quantitative readout for the study of the crosstalk between neurons and non-neuronal cells based on purinergic signaling that is applicable in high throughput screenings and in microfluidics settings to predict overall drug side-effects*
27. Sundukova M Vilotti S Abbate R Fabbretti E Nistri A 2012 Functional differences between ATP-gated human and rat P2X3 receptors are caused by critical residues of the intracellular C-terminal domain **JOURNAL OF NEUROCHEMISTRY** 122(3):557-567. ISSN:0022-3042; doi:10.1111/j.1471-4159.2012.07810.x Citations 18  
Contribution: experimental settings and mutagenesis design
28. Sciancalepore M Luin E Parato G Ren E Giniatullin R Fabbretti E Lorenzon P 2012 Reactive oxygen species contribute to the promotion of the ATP-mediated proliferation of mouse skeletal myoblasts **FREE RADICAL BIOLOGY AND MEDICINE** 53 7 :1392-1398 ISSN:0891-5849; doi: 10.1016/j.freeradbiomed.2012.08.002 Citations 31  
Contribution: measurement of ATP concentrations
29. Pangršić T Potokar M Stenovec M Kreft M Fabbretti E Nistri A Pryazhnikov E Khiroug L Giniatullin R Zorec R 2007 Exocytotic release of ATP from cultured astrocytes **JOURNAL OF BIOLOGICAL CHEMISTRY** 282 39:28749-28758 ISSN:0021-9258; doi: 10.1074/jbc.M700290200 Citations 287  
Contribution: development of P2X3-expressing sniffer cells  
*Developing synthetic P2X3-expressing ATP sniffer cells, the paper demonstrated for the first time that the non-neuronal cells called astrocytes release ATP, that have a key role in inter-cellular communication in the brain*
30. Apicella L Fabbretti E 2012 P2X3 receptor expression by HEK-293 cells conditions their survival **PURINERGIC SIGNALING** 8 2 :295-300 ISSN:1573-9538; doi: 10.1007/s11302-011-9285-0 Citations 7  
*Expression of P2X3 receptors induce ambient ATP sensing and caspase 3-mediated cell death*
31. Fabbretti E Edomi P Brancolini C Schneider C 1995 Apoptotic phenotype induced by overexpression of wild-type gas3/PMP22: its relation to the demyelinating peripheral neuropathy CMT1A **GENES AND DEVELOPMENT** 9 (15), 1846-1856. ISSN: 0890-9369; doi: 10.1101/gad.9.15.1846 Citations 217  
*Using cell microinjection as recombinant expression technique, we characterised the apoptotic phenotype of WT and mutated Gas3/PMP22 proteins associated to Charcot Marie Tooth CMT1A disease*

**MACHINE LEARNING IA  
MICROBIOME**

**ECO-TOXICITY OF  
PESTICIDES**

**NANOMATERIALS  
IMAGING**

**NANO-IMAGING  
SNOM MICROSCOPY**

**VIRUS DHIARREA  
BIOCHEMISTRY RNA  
MICROSCOPY**

**VIRUS DHIARREA**

32. Gubiani D Fabbretti E Cestnik B Lavrač N Urbančič T 2017 Outlier based literature exploration for cross-domain linking of Alzheimer's disease and gut microbiota **EXPERT SYSTEMS WITH APPLICATIONS** 3,3: e58 doi:http://dx.doi.org/10.18547/gcb.2017 Citations 11
33. Cestnik B Fabbretti E Gubiani D Urbančič T Lavrač N 2017 Reducing the search space in literature-based discovery by exploring outlier documents: a case study in finding links between gut microbiome and Alzheimer's disease **GENOMICS AND COMPUTATIONAL BIOLOGY** doi: http://dx.doi.org/10.18547/gcb.2017.vol3.iss3.e58 Citations 11
34. Malev O Sauerborn Klobučar R Fabbretti E Trebše P 2012 Comparative toxicity of imidacloprid and its transformation product 6-chloronicotinic acid to non-target aquatic organisms: Microalgae *Desmodesmus subspicatus* and amphipod *Gammarus fossarum* **PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY** 32 ISSN:0048-3575; doi: 10.1016/j.pestbp.2012.07.008 Citations 127  
Contribution: experimental design  
*The work demonstrated the toxicity of the pesticide by studying the toxicity of cellular metabolites of the primary compound*
35. Modugno G Fabbretti E Dalle Vedove A Da Ros T Maccato C Hosseini HS Bonchio M Carraro M 2018 Tracking of fluorescent polyoxometalates within cells **EUR J INORG CHEMISTRY** 46 4955-4961 Citations 9  
Contribution: experimental design and microscopy experiments  
*Different chemical compounds are trapped in different cell compartments*
36. Trevisan E Fabbretti E Medic N Troian B Prato S Vita F Zabucchi G Zwyer M 2010 Novel approaches for Scanning Near-Field Optical Microscopy imaging of oligodendrocytes in culture **NEUROIMAGE** 49 1: 517-524 ISSN:1053-8119 doi: 10.1016/j.neuroimage.2009.07.035 Citations 8  
Cover Image  
Contribution: experimental design for HRP microscopy
37. Eichwald C Vascotto F Fabbretti E Burrone OR 2002 Rotavirus NSP5: mapping phosphorylation sites and kinase activation and viroplasm localization domains **JOURNAL OF VIROLOGY** 76,7 :3461-70 ISSN:0022-538X; doi: 10.1128/JVI.76.7.3461-3470.2002 Citations 106  
*We applied protein domain swapping, to map the viral non-structural NSP5 protein regions required for NSP5/NSP2 viroplasm condensates and we demonstrated their modulation by Casein Kinase II-dependent phosphorylation*
38. Afrikanova I Fabbretti E Miozzo MC Burrone OR 1998 Rotavirus NSP5 phosphorylation is up-regulated by interaction with NSP2 **JOURNAL OF GENERAL VIROLOGY** 79, 2679-2686. ISSN:0022-1317 doi: 10.1099/0022-1317-79-11-2679 Citations 150  
*We applied in vivo/vitro phosphorylation techniques and protein chemical or UV crosslinking to demonstrate that the non-structural NSP2 protein has a key role in the NSP5/NSP2 protein-protein interaction in an RNA virus model*
39. Fabbretti E Afrikanova I Vascotto F Burrone OR 1999 Two non-structural rotavirus proteins NSP2 and NSP5 form viroplasm-like

structures in vivo **JOURNAL OF GENERAL VIROLOGY** 80, 333-339. ISSN:0022-1317; doi: 10.1099/0022-1317-80-2-333 Citations 314  
*Using recombinant expression of non-structural proteins of an RNA virus model, we demonstrated the occurrence of cellular aggregates typical of viral factories, today recognised as biomolecular condensates*

## REVIEW PAPERS

TOPIC	REFERENCE
MIGRAINE PAIN NEUROBIOLOGY PHYSIOLOGY	40. Giniatullin R Nistri A Fabbretti E 2008 Molecular mechanisms of sensitization of pain-transducing P2X3 receptors by the migraine mediators CGRP and NGF <b>MOLECULAR NEUROBIOLOGY</b> 37:83–90 ISSN:0893-7648; doi: 10.1007/s12035-008-8020-5 Citations 199 <i>The review discusses how neuronal membrane receptors channels are associated to intracellular signaling to mechanistically support pharmacology-relevant concepts like receptor sensitisation and to control the neuronal threshold of firing. We provided examples of NGF and CGRP signaling that was able to evoke middle- and long-term downstream effects on neuronal receptor function</i>
MIGRAINE PAIN NEUROBIOLOGY GENETICS	41. Bele T Fabbretti E 2014 P2X receptors sensory neurons and pain <b>CURRENT MEDICINAL CHEMISTRY</b> 22,7 ISSN:0929-8673; doi: 10.2174/0929867321666141011195351 Citations 56 <i>The review summarizes the molecular and biochemical complexity of the cellular models of primary sensory neurons in the context of pain pathophysiology</i>
MIGRAINE PAIN NEUROBIOLOGY INFLAMMATION	42. Fabbretti E 2013 ATP P2X3 receptors and neuronal sensitization <b>FRONTIERS IN CELLULAR NEUROSCIENCE</b> 7:236 ISSN:1662-5102; doi: 10.3389/fncel.2013.00236 Citations 80 <i>The review explored molecular mechanisms associated to P2X3 receptors expressed in membrane nanodomains equipped by scaffold and signaling proteins, able to switch-on receptor function and to influence overall neuronal properties and downstream tissue events like neurogenic inflammation</i>
MIGRAINE PAIN BIOCHEMISTRY	43. Fabbretti E Nistri A 2012 Regulation of P2X3 receptor structure and function <b>CNS &amp; NEUROLOGICAL DISORDER-DRUG TARGETS</b> 11,6 ISSN:1871-5273; doi: 10.2174/187152712803581029 Citations 28
MIGRAINE PAIN NEUROBIOLOGY PHARMACOLOGY	44. Fabbretti E 2019 P2X3 receptors are transducers of sensory signals <b>BRAIN RES BULLETIN</b> 151:119-124 doi: 10.1016/j.brainresbull.2018.12.020 Citations 27 <i>The review discusses the role of ambient ATP as inter-cell signaling molecule. In addition, it was also suggested the role of common molecular determinants in peripheral and in brain neurons, and therefore their role to shape the proper sensory transduction as well as accurate brain development</i>
PAIN BIOCHEMISTRY	45. Fabbretti E 2017 ATP-gated P2X3 receptors are specialised sensors of the extracellular environment <b>PROTEIN REVIEWS Springer Book Chapter in Advances in Experimental Medicine and Biology</b> ISSN: 0065-2598. doi: 10.1007/5584_2017_56 Citations 9 <i>The review discusses the rationale of the design of experimental protocols and biochemical tools useful for the study of P2X3 receptors in primary neurons</i>

**MIGRAINE BIOMARKER  
CGRP**

46. Vilotti S Fabbretti E Nistri A 2014 Role of Calcitonin gene-related peptide and Brain natriuretic peptide to modulate the excitability state of trigeminal neurons: relevance to migraine pathology and treatment **JOURNAL OF RECEPTOR LIGAND AND CHANNEL RESEARCH** 8 31-41 ISSN:1178-699X; doi: <http://dx.doi.org/10.2147/JRLCR.S50993> Citations 5

## CONTRIBUTIONS PRESENTED AT INTERNATIONAL CONFERENCES

TOPIC	CONFERENCE	POSTER TITLE
MIGRAINE	<b>18th Congress of the International Headache Society</b> Vancouver Canada 07-10/11/2017	Balasco L Vilotti S van den Maagdenberg A Nistri A Fabbretti E Trigeminal ganglia of familial hemiplegic migraine type 1 R192Q mutant mice express markers of the M1 macrophage polarisation stage (VERIFIED) Published in Cephalalgia (2017) 37 296-297 Oral contribution
	<b>Evento 5 anni di anticorpi monoclonali: cos'è cambiato nel trattamento dell'emicrania</b> Udine 24/02/2023	Fabbretti E Il ruolo del sistema purinergico nel dolore emicranico: dalla fisiopatologia alle prospettive terapeutiche future (VERIFIED) Oral contribution
	<b>Congresso nazionale della società italiana per lo studio delle cefalee</b> Palermo 13-15/10/2022	Fabbretti E Proprietà del segnale purinergico nel sistema trigeminovascolare (VERIFIED) Oral contribution
	<b>Congresso nazionale della società italiana per lo studio delle cefalee</b> Roma 18/09/2010	Fabbretti E Meccanismi molecolari della sensitizzazione: dalla biologia alla terapia (VERIFIED) Oral contribution
	<b>Congresso nazionale della società italiana per lo studio delle cefalee</b> Trieste 09/06/2007	Fabbretti E Studio dei meccanismi di sensibilizzazione dei neuroni trigeminali (VERIFIED) Oral contribution
	<b>European Winter Conference on Brain Research EWCBR</b> Villars sur Ollon Switzerland 5-12/03/2016	Vilotti S Marchenkova A Fabbretti E Nistri A Upregulation of P2X3 receptors underlies sensitization of trigeminal sensory neurons
	<b>European Neuroscience Forum FENS</b> Milano Italy 05-09/07/ 2014	Bele T Fabbretti E ATP dynamic release mechanisms in peripheral sensory ganglia (VERIFIED)
NEUROSCIENCE		Sundukova M Vilotti S Abbate R Fabbretti E Nistri A C-terminal non-conserved tyrosine residues differentially shape the activity of rat and human P2X3 receptors (VERIFIED)
	<b>European Neuroscience Forum FENS</b> Barcelona Spain 14-18/07/2012	Gnanasekaran A Sundukova M Bianchini G Nistri A Fabbretti E CASK is a new interactor of the P2X3 receptor to modulate its function in trigeminal sensory neurons (VERIFIED)
		Hullugundi SK Abbate R Franceschini A Nistri A Fabbretti E Functional responses of P2X3 receptors of trigeminal sensory neurons from CGRP knock-out mice (VERIFIED)

NEUROSCIENCE

PAIN

**European Neuroscience Forum**  
**FENS** Amsterdam Holland  
03-07/07/2010

**European Neuroscience Forum**  
**FENS** Geneva Switzerland  
12-16/07/2008

**European Neuroscience Forum**  
**FENS** Vienna Austria  
08-12/07/2006

**European Neuroscience Forum**  
**FENS** Munich Germany 26-  
29/03/2006

**Conference of the Society for**  
**Neuroscience**  
Washington USA 15-19/11/2014

**Conference of the Society for**  
**Neuroscience**  
Atlanta USA 14-18/10/2006

**Neuroscience conference**  
**Synapsa** Ljubljana Slovenia  
27-29/09/2013

**Pain Mechanisms and**  
**Therapeutics Conference**  
Taormina, Sicily  
3-8/06/2018

**Welcome Trust conference on**  
**Pain** Cambridge UK  
11-13/03/2015

Franceschini A Fabbretti E Nair A Van Den Maagdenberg AMJM Nistri A Functional crosstalk between sensory neurons and non-neuronal cells in trigeminal ganglia of a genetic migraine mouse model (VERIFIED)

D'Arco M Giniatullin R Nistri A Fabbretti E A novel intracellular neuronal regulator of P2X3 receptor on trigeminal neurons (VERIFIED)

Simonetti M Giniatullin R Nistri A Fabbretti E The neuropeptide CGRP evokes P2X3 gene transcription in mouse trigeminal neurons via a CREB-dependent mechanism (VERIFIED)

Fabbretti E Fabbro A Nistri A Giniatullin R Functional expression of P2X and TRPV1 receptors by rat and mouse trigeminal ganglion neurons in culture and their modulation by NGF and 5-HT (VERIFIED)

Simonetti M Fabbro A D'Arco M Nistri A Giniatullin R Fabbretti E Neuronal P2X and TRPV1 pain receptors in trigeminal ganglia and primary culture: plastic changes (VERIFIED)

Sharifullina E Fabbretti E and Nistri A Deadly rhythmic bursting of hypoglossal motoneurons triggered by glutamate uptake block (VERIFIED)

Nistri A Giniatullin R Fabbretti E Sokolova E Fabbro A Molecular physiology of P2X3 receptors

Nowodworska A Fabbretti E M J M van den Maagdenberg A Nistri A Increased P2X7 Receptor Activity in Trigeminal Ganglia of a mouse genetic model of familial hemiplegic migraine type-1

Giniatullin R D'Arco M Fabbro A Simonetti M Nistri A Fabbretti E Anti-NGF antibody application downregulates the function of P2X3 receptors of mouse trigeminal nociceptive neurons

Bele T Gnanasekaran A Sundukova M Hullugundi S Nistri A Fabbretti E Novel modulation of P2X3 receptors by endogenous Calcium/calmodulin-dependent serine protein kinase CASK (VERIFIED)

Attendance only

Bele T Fabbretti E ATP release in peripheral sensory ganglia

**PURINERGIC  
SIGNALING**

**8th Congress of the European Federation of PAIN IASP EFIC**  
Florence Italy 09-12/10/2013

Sperlagh B Fabbretti E Ceruti S Purinergic signalling a key modulator of nociception and a promising target for acute and chronic pain states (VERIFIED)  
Oral contribution

**6th Congress of the European Federation of PAIN IASP EFIC**  
Hamburg Germany  
21-24/09/2011

Sundukova M Vilotti S Kavčič N Abbate R Fabbretti E Nistri A Critical residues of the intracellular C-terminal domain of ATP-gated P2X3 receptors regulate functional differences between human and rat receptors

**European Pain School EPS**  
Siena Italy 03-10/06/2012

Sundukova M Gnanasekaran A van den Maagdenberg A Fabbretti E Nistri A Lipid rafts control P2X3 receptors on trigeminal sensory neurons of a genetic migraine mouse model

**European Pain School EPS**  
Siena Italy 12-19/06/2011

Bele T Fabbretti E Vilotti S A Nistri A Role of soluble pain mediators in cross-talk between neurons and glia within trigeminal ganglia

**European Pain School EPS**  
Siena Italy 13-20/06/2009

Gnanasekaran A Sundukova M Nistri A Fabbretti E Lipid rafts control P2X3 receptor distribution and function in trigeminal sensory neurons of a genetic mouse model of migraine (VERIFIED)

**Purines 2014**  
Bonn Germany 23-27/07/2014

Fabbretti E Molecular mechanisms of sensitization of pain transducing receptors on mouse trigeminal neurons (VERIFIED) Oral contribution

**Purines 2010** Adenine nucleosides and nucleotides in biomedicine Tarragona Barcelona Spain  
30/05- 02/06/2010

Bele T Fabbretti E ATP in peripheral sensory ganglia (VERIFIED) Published in Purinergic Signaling Oral contribution

**The ITA – UK Purine meeting**  
Bristol UK 13-14/09/2016

Ceruti S Villa G Fumagalli M Colombo M Zanardelli M Fabbretti E Verderio C van den Maagdenberg AM Nistri A Abbracchio MP CGRP-mediated enhancement of purinergic neuron/glia communication by the algogenic factor bradykinin in trigeminal mouse ganglia: implications for migraine pain. Published in Purinergic Signaling Chair person - Oral contribution

**Italian-German Purine Club Meeting** Hamburg Germany  
23-25/07/2015

Fabbretti E Molecular characterization of an ATP keeper in sensory neurons (VERIFIED)  
Oral contribution

**Italian-German Purine Club Meeting** Rimini Italy  
18-21/09/2013

Vilotti S Marchenkova A Fabbretti E Nistri A Upregulation of P2X3 receptors underlies sensitization of trigeminal sensory neurons

Fabbretti E Cask is a novel interactor of P2X3 in sensory neurons (VERIFIED) Oral contribution

Franceschini A Vilotti S Van Den Maagdenberg A Nistri A Fabbretti E Neuroinflammation in trigeminal ganglia alters P2X3 receptor function (VERIFIED)

GLIA

**Italian-German Purine Club Meeting** New Frontiers for Novel Therapies Camerino Italy 17-20/07/2009

Fumagalli M Ceruti S Villa G Colombo L Verderio C Fabbretti E Nistri A Abbraccio M Modulation of purinergic signalling by algogens in cultures from trigeminal sensory ganglia

**Italian-German Purine Club Meeting** Leipzig Germany 12-15/09/2007

Fabbretti E D'Arco M Simonetti M Fabbro A Nair A Nistri A Giniatullin R NGF controls plasticity of P2X3 receptors in trigeminal sensory neurons  
**Oral contribution**

**8th Int Symposium on Adenosine and Adenine Nucleotides** Ferrara Italy 24-28/05/2006

Nistri A Fabbretti E Fabbro A D'Arco M Simonetti M Giniatullin R Expression function and modulation of P2X3 receptors on trigeminal ganglion nociceptors

**GLIA Meeting** London

Attendance only

**GLIA Meeting** Berlin Germany 03/07/2013

Franceschini Vilotti S Bele T M J M Van Den Maagdenberg A Nistri A Fabbretti E Cross-talk between neurons and non-neuronal cells within sensory neurons: effects on ATP-gated P2X3 receptors (VERIFIED)

**10th European meeting on Glial Cells in Health and Disease - EuroGlia** Prague Czech Republic 09/2011

Abbraccio MP Magni G Villa G Fumagalli M Colombo L Zanardelli M Fabbretti E M van den Maagdenberg A Nistri A Ceruti S Purinergic neuron/glia communication in trigeminal ganglia: interactions with known algogens and implications for migraine pain

**The EMBO Meeting** Vienna Austria 10-13/09/2011

Hullugundi SK Franceschini A Abbate R van den Maagdenberg A Fabbretti E Nistri A ATP-sensitive P2X3 receptors of trigeminal ganglion neurons are constitutively upregulated in a genetic model of familial migraine

MOLECULAR BIOLOGY

**The EMBO Meeting** Jerusalem Israel 15-19/03/2009

Fabbretti E Giniatullin R Nistri A D'Arco M Csk is a novel regulator of P2X3 receptors in trigeminal neurons

**Conference of the Federation of European Physiological Societies – FEPS** Ljubljana Slovenia 12-15/11/2009

Spatial Dynamics of Intracellular Signaling Overcoming distance in signalling networks - SPATIAL 2009 (VERIFIED) **Oral contribution**

Fabbretti E ATP-mediated signalling in trigeminal neurons in a migraine animal model (VERIFIED)  
Chair person - Symposium organiser  
**Oral contribution**

PHYSIOLOGY

**LXXV Meeting of the Hungarian Physiological Society** Pécs Hungary 8-11/06/2011

Ceruti S Villa G Fumagalli M Colombo L Magni G Zanardelli M Fabbretti E Verderio C AMJM van den Maagdenberg Nistri A Abbraccio M P Purinergic neuron/glia communication in mouse trigeminal ganglia and its crosstalk with known algogenic mediators: implications for basic mechanisms of migraine pain

PHARMACOLOGY	<p><b>Societa' Italiana di Farmacologia SIF</b> Purine Club Symposium on the Role of Purinergic Signalling in the Function of Neural &amp; Peripheral Cells Bologna Italy 14-17/09/2011</p>	<p>Ceruti S Villa G Fumagalli M Colombo L Magni G Zanardelli M Fabbretti E Verderio C A M J M van den Maagdenberg A Nistri M P Abbracchio The purinergic system cooperates with the algogenic factors bradykinin and CGRP in modulating neuron/glia communication in mouse trigeminal ganglia from wild type and R192Q Cav21 knock-in mice: implications for basic mechanisms of migraine pain</p>
	<p><b>Societa' Italiana di Farmacologia SIF</b> Trieste Italy 2003</p>	<p>Fabbretti E Nistri A Mapping nicotinic receptors in rat hypoglossal nucleus</p>
MOLECULAR MEDICINE	<p><b>International symposium MolMed</b> Ljubljana Slovenia 27-29/06/2012</p>	<p>Gnanasekaran A Bele T Sundukova M Bianchini G Nistri A Fabbretti E CASK is a new interactor of the P2X3 receptor to modulate its function in trigeminal sensory neurons</p>
	<p><b>14th Symposium of Croatian Medical Association</b> Rijeka Croatia 04/07/2016</p>	<p>E Fabbretti Molecular requirements for purinergic signaling in the control of of pain sensitivity (VERIFIED) Oral contribution</p>
GENETIC	<p><b>MINA Conference Environment &amp; Health: Epigenetic mechanisms to design repair solutions</b> Vipava Slovenia 26-27/03/2015</p>	<p>Pinato G Erjavec N Mitri E Dominko T Fabbretti E Vaccari L Detection of epigenetic events by infrared microspectroscopy (VERIFIED)</p>
REGENERATIVE MEDICINE	<p><b>International Summer School: From 2D biology to engineered 3D medical solutions</b> Vipava Slovenia 23-31/08/2013</p>	<p>Fabbretti E Fluorescence imaging to study cell to cell crosstalk in complex tissue models (VERIFIED) Oral contribution</p>
ANATOMY HISTOLOGY	<p><b>59° Conference of the Italian Society of Anatomy and Histology</b> Sorrento Italy 18-21/09/2005</p>	<p>Zweyer M Guiniatullina A Bortul R Fabbretti E Morphological features and P2X3 expression in sensory neurons of rodent trigeminal ganglia under different culture conditions</p>
MICROSCOPY	<p><b>7th Multinational Congress on Microscopy</b> Portoroz Slovenia 26-30/06/2005</p>	<p>Zweyer M Fabbretti E Nistri A Prato S Troian B Morphological characterization of primary cell cultures of trigeminal ganglion sensitive neurons by Scanning Probe Microscopy AFM and SNOM</p>
	<p><b>Expert Group Meeting: North-South Dialogue on Nanotechnology: Challenges and opportunities</b> Padriciano Trieste Italy 10-12/02/2005</p>	<p>Prato S Troian B Peloi M Nistri A Fabbretti E Zweyer M Carraro M and Zennaro C Scanning Probe Microscopy as a new tool for biological and medical applications</p>
VIROLOGY	<p><b>ICGEB-UCI Virology Symposium</b> New Delhi 1998</p>	<p>Fabbretti E Afrikanova I Miozzo MC Vascotto F Burrone OR NSP2 and NSP5 interaction: a key role for Rotavirus replication</p>
CELL BIOLOGY	<p><b>International Conference of Virus Replication</b> Canary Islands Spain 2008</p>	<p>Fabbretti E Afrikanova I Mozzo MC Vascotto F Burrone OR NSP2 and NSP5 interaction: a key role for Rotavirus replication</p>
	<p><b>NIH Conference</b> New York USA 1996</p>	<p>Brancolini C Fabbretti E Edomi P Schneider C Apoptotic phenotype induced by overexpression of</p>

<b>MACHINE LEARNING IA</b>	<b>Conference on Data Mining and Data Warehouses SiKDD</b> Ljubljana Slovenia 05/10/2015	wild-type gas3/PMP22: its relation to the demyelinating peripheral neuropathy CMT1A
	<b>4th International Work-Conference on Bioinformatics and Biomedical Engineering IWBBIO</b> Granada Spain 20-22/04/2016	Gubiani D Petrič I Fabbretti E Urbančič T Mining scientific literature about ageing to support better understanding and treatment of degenerative diseases Proceedings Citations 10 (VERIFIED)
	<b>Scientific Convention Telethon</b> Riva del Garda Italy 11-13/03/2013	Cestnik B Fabbretti E Gubiani D Lavrač N Urbančič T Exploring outlier documents to investigate potential links between gut microbiota and Alzheimer's disease (VERIFIED)
<b>TELETHON SCIENTIFIC CONVENTION</b>	<b>Scientific Convention Telethon</b> Salsomaggiore Italy 2011	Ceruti S Fabbretti E Vilotti S Magni G Merli D Verderio C Abbracchio MP Nistri A Studies of familial hemiplegic migraine transgenic mouse models and patients to investigate the crosstalk between sensory neurons and neuroinflammatory cells in trigeminal ganglia in relation to migraine pain (VERIFIED)
	<b>Scientific Convention Telethon</b> Salsomaggiore Italy 09-11/03/2009	Fabbretti E Ceruti S Franceschini A Villa G Magni G Fumagalli M Colombo L Verderio C van den Maagdenberg AMJM Abbracchio MP and Nistri A Crosstalk between sensory neurons and neuroinflammatory cells in trigeminal in relation to migraine pain
	<b>Scientific Convention Telethon</b> Salsomaggiore Italy 09-11/03/2009	Ceruti S Fabbretti E Simonetti M D'Arco M Giniatullin R Villa G Fumagalli M Colombo L Verderio C Abbracchio MP Nistri A Role of ATP as transmitter of pain in migraine
	<b>Scientific Convention Telethon</b> Salsomaggiore Italy 2007	Fabbretti E Giniatullin R Simonetti M D'Arco M Ceruti S Fumagalli M Villa G Verderio C Abbracchio MP Nistri A ATP receptors in migraine
	<b>Scientific Convention Telethon</b> Salsomaggiore Italy 2005	Nistri A Giniatullin R Fabbretti E Fabbro A Simonetti M Darco M Abbracchio MP Ceruti S Role of ATP as transmitter of pain in migraine

## CONFERENCE CONTRIBUTIONS IN OTHER TOPICS

TOPIC	CONFERENCE	TITLE
<b>EXPO</b>	<b>HANNOVER MESSE</b> <b>Tailwind for industry</b> Hannover Germania 02/04/2025	Attendance only
	<b>ECOMONDO 2025</b> Rimini 04-05/11/2025	Organisation of a boot for Univ of Trieste / INEST
	<b>ECOMONDO 2024</b> <b>The green technology expo</b> <b>The ecosystem of the Ecological Transition</b> Rimini 05/11/2024	Attendance only
<b>INTERACTION CELLS MATERIALS</b>	<b>11th European Biological Inorganic Chemistry Conference</b> Granada Spain 12-16/09/2012	Carraro M Modugno G Fabbretti E Bonchio M Polyoxometalate-based hybrid conjugates: delivery imaging and sensing applications

**ECO-TOXICOLOGY****International Conference on Multifunctional Hybrid and Nanomaterials**

Napoli Italy 03-07/03/2013

Modugno G Carraro M Sartorel A Fabbretti E Bonchio M Luminescent Polyoxometalate-based hybrids for imaging and sensing applications

**International Conference on Geomicrobial Ecotoxicology**

Wuhan China 28-31/05/2011

Malev O Fabbretti E Sauerborn-Klobučar R Trebše P Acute toxicity of imidacloprid to the aquatic invertebrate *Gammarus fossarum* in static-exposure condition Oral contribution**Slovenski kemijski dnevi**

Portorož Slovenia 14-16/09/2011

Malev O Fabbretti E Sauerborn-Klobučar R Trebše P Acute toxicity of imidacloprid to the aquatic invertebrate *Gammarus fossarum* in static-exposure condition**The 11th European Meeting on Environmental Chemistry - EMEC11**

Portorož Slovenia 8-11/12/2010

Malev O Trebše P Fabbretti E Lipid peroxidation after Imidacloprid in F11 cell model (VERIFIED)

Ke C Malev C Raspor L Yao J Trebše P Fabbretti E Effects of Imidacloprid on F11 cellular model

Malev O Fabbretti E Trebše P Neonicotinoids: evaluation of physiological and biochemical responses of *Gammarus fossarum* Koch**International symposium MolMed**

Ljubljana Slovenia 27-29/06/2012

Malev O Trebše P Žabar R Fabbretti E Imidacloprid effects in peripheral sensory neurons in culture

**CELLS AND NANOMATERIALS****25th International Conference on Materials and Technology ICM&T**

Portorož Slovenia 16-19/10/2017

Pivec T Kargl R Maver U Bračič M Elschner T Žagar E Gradišnik L Fabbretti E Stana Kleinschek K Chemical structure and bioactive properties of rutin and polyrutin  
Contribution: analisi di cito-tossicità**SLONANO**

Ljubljana Slovenia 26-28/10/2011

Stojkovic Đ Fabbretti E Valant M Emin S Biotin Hydrazide Derivates for Cellular Imaging

**NANOTOXICOLOGY****Thematic Workshop in Toxicology Related Topics**

Vipava Slovenia 14-15/06/2013

Šuštar V Pribovšek S Peternej P Laganis J Bele T Fabbretti E NanoSilver Hx 1000 toxicity in rat J774 2 inflammatory cells

Markelj A BednarSek N Lavrenčič Štangar U Fabbretti E Impact of dispersion preparation on nanomaterial genotoxicity imaging - high content analysis (VERIFIED)

## ACADEMIC DUTIES AND APPOINTMENTS

1. Director of PhD Programme in GENETICS AND BIOTECHNOLOGIES, University of Nova Gorica period 01/12/2009 - 30/09/2016
2. Associate Professor in MOLECULAR AND CELLULAR BIOLOGY, University of Nova Gorica 06/07/2012
3. Member of the ETHICAL COMMITTEE, University of Nova Gorica, 19/11/2014 – 31/12/2016
4. Member of teachers at the PHD SCHOOL IN NEUROBIOLOGY at SISSA 25/10/2012 - 31/12/2016
5. Lectures to PhD students of the Neurobiology course at SISSA about PROTEIN BIOCHEMISTRY, BIOLOGY OF MEMBRANE RECEPTORS, METHODS IN PROTEIN PURIFICATION, period 2012-2015
6. Journal club sections PhD Programme in Molecular Biotechnology, University of Nova Gorica period 2011-2016
7. Lecturer at ENVIRONMENTAL EPIDEMIOLOGY (30 ECTS), academic year 2012/2013, 2013/2014, 2015/2016
8. Lecturer at HUMAN BIOMONITORING (30 ECTS), academic year 2015/2016
9. Lecturer at TOXICOLOGY AND CANCER (30 ECTS), academic year 2010/2011, 2011/2012
10. Lecturer at TOPICAL SUBJECT IN ENVIRONMENT I/II (4 ECTS), academic year 2009/2010, 2010/2011, 2011/2012, 2015/2016
11. Member in the evaluation committee Reviewer for Czech Academy of Sciences, 04/05/2015
12. Member in the evaluation committee for National Science Center Polonia, 10/06/2013
13. Project Reviewer for Provincia Autonoma di Bolzano, 18/11/2015
14. Project Reviewer for Innovation Medicine Initiative IMI, 11/02/2016
15. Project Reviewer for Israel Science Foundation, 20/06/2018
16. Project Reviewer MIUR 29/04/2016, 12/05/2016, 26/04/2016, 05/01/2017, 06/03/2017
17. Member of the Committee to select Early Stage Researchers (ESR) for project ITN SINERGIA (call H2020-MSCA-ITN-2019) GA 860715, 09/01/2020
18. Associate Editor of Frontiers in Cellular Neuroscience dal 17/06/2025
19. Paper reviewer for Frontiers, Purinergic Signaling, PLOS, British J. Pharmacology, Molecular Pain, Neuroscience and others

## EVALUATION COMMITTEES

1. Evaluator in PhD degree thesis Committee, University of Trieste 10/01/2016
2. Evaluator in PhD degree thesis Committee, University of Trieste 23/04/2013
3. Evaluator in PhD degree thesis Committee, University of Udine 10/04/2015
4. Evaluator in PhD degree thesis - Doctor Europaeus 2012, 2013, 2016
5. Evaluator in PhD degree thesis, The Open University 22/07/2014
6. Evaluator in PhD degree thesis, The Open University 23/07/2013
7. Opponent of master degree thesis, University of Trieste 19/12/2009
8. Opponent of master degree thesis, University of Trieste 16/07/2011
9. Opponent of master degree thesis, University of Trieste 23/03/2017
10. Opponent of master degree thesis, University of Trieste 12/12/2017
11. Opponent of master degree thesis, University of Trieste 23/03/2018
12. Examiner of PhD thesis, University of Nova Gorica 01/10/2012
13. Examiner of PhD thesis, University of Nova Gorica 21/11/2013
14. Examiner of thesis degree, University of Nova Gorica 25/06/2012
15. Admin member for a job appointment at University of Trieste, Prot. n. 2940 del 13/01/2026
16. Admin member for a job appointment at University of Trieste, Prot. n. 2939 del 13/01/2026
17. Evaluation committee for a job appointment at University of Trieste, Prot. 71382 del 05/05/2025
18. Evaluation committee for a job appointment at University of Trieste, Prot. 71589 del 06/05/2025
19. Evaluation committee for a job appointment at University of Trieste, Prot. 61649 del 02/04/2025
20. Admin member for a job appointment at University of Trieste, Prot. 145013 del 22/08/2024

## ORAL CONTRIBUTIONS AT EVENTS AND CONFERENCES

1. Invited Speaker at 18th CONGRESS OF THE INTERNATIONAL HEADACHE SOCIETY Vancouver Canada 07-10/11/2017
2. Invited Speaker at 8th CONGRESS OF THE EUROPEAN FEDERATION OF IASP CHAPTERS (EFIC) Firenze Italy 9-12/10/2013
3. Invited Speaker at 14th SYMPOSIUM OF CROATIAN MEDICAL ASSOCIATION, University of Rijeka Croatia 04/07/2016

4. Oral presentation at EMBO CONFERENCE SPATIAL DYNAMICS OF INTRACELLULAR SIGNALLING: OVERCOMING DISTANCE IN SIGNALING NETWORKS, Jerusalem Israel 15-19/03/2009
5. Chair and Speaker at CONFERENCE OF THE FEDERATION OF EUROPEAN PHYSIOLOGICAL SOCIETIES MEETING FEPS, organised by Max-Planck Inst and University of Maribor Slovenia 9-10/12/2006
6. Speaker at CONFERENCE PURINES 2014, Bonn Germania 23-27/07/2014
7. Chair and Speaker at CONFERENCE PURINES 2010, Tarragona Barcelona Spain 30/05-2/06/2010
8. Invited Speaker at ITALY-UK MEETING Bristol UK 13-14/10/2016
9. Speaker at I GERMAN-ITALIAN PURINE CLUB MEETING, Rimini Italy 18-21/09/2013
10. Speaker at 2nd JOINT ITALIAN-GERMAN PURINE MEETING, Lipsia Germany 12-15/09/2007
11. Speaker at the event 5 ANNI DI ANTICORPI MONOCLONALI: COS'È CAMBIATO NEL TRATTAMENTO DELL'EMICRANIA Udine 24/02/2023
12. Speaker at CONGRESSO NAZIONALE DELLA SOCIETÀ ITALIANA PER LO STUDIO DELLE CEFALEE Palermo 13-15/10/2022
13. Speaker at 2nd CONFERENCE OF THE SOCIETÀ ITALIANA DELLE CEFALEE, Latina Roma 18/09/2010
14. Speaker at SOCIETÀ ITALIANA DELLE CEFALEE, Trieste Italy 09/06/2007
15. Oral presentation at SUMMER SCHOOL EUROPEAN PAIN SCHOOL EPS University of Siena 14/06/2009

## INVITED LECTURES

1. RISPOSTE A SEGNALI GENERANO UN OUTCOME CELLULARE UNICO University of Trieste 13/11/2025 (invited by M.Sciancalepore)
2. ATP GATED P2X3 RECEPTORS EXPRESSED IN SENSORY NEURONS IN HEALTH AND DISEASE University of Trieste 27/11/2018 (invited by G.Meroni)
3. IL SISTEMA SENSORIALE ALL'INTERFACCIA TRA IL SISTEMA NERVOSO PERIFERICO E IL CENTRALE University of Trieste 29/11/2019 University of Trieste 30/10/2019 (invited by M.Sciancalepore)
4. SENSORIAL DYSFUNCTIONS AFTER STROKE: IS IT PAINFUL? University of Trieste 20/07/2018 (talk at MemoriNet event, invited by E.Tongiorgi)
5. BIOLOGY OF MEMBRANE RECEPTORS International School for Advanced Studies SISSA Trieste Italy 18/12/2015
6. FROM 1D TO 3D: CELLULAR MODELS FOR RESEARCH ON PAIN 11/12/2014, at the course "Cell culture-based models for drug discovery, toxicology and tissue repair" University of Trieste - Dec 11-14/12/2014 (invited by E.Tongiorgi)
7. ORGANOTYPIC CULTURES OF MOUSE SENSORY NEURONS AS IN VITRO EXPOSURE MODEL University of Nova Gorica 14-15/06/2013 (talk at Toxicology workshop)
8. NEUROINFLAMMATION IN PERIPHERAL NEURONS AND CHRONIC PAIN University of Kuopio Finland 26/09/2012 (invited by R.Giniatullin)
9. MOLECULAR FACTORS CONTROLLING TRIGEMINAL PAIN University of Torino 28/09/2011 (invited by G.Gambarotta)
10. FOCUS ON NEURONAL P2X3 RECEPTORS University of Milano 30/09/2011 (invited by MP.Abracchio)
11. ATP RECEPTORS IN SENSORY NEURONS University of Ferrara 26/03/2009 (invited by F.Di Virgilio)
12. NOVEL MODULATORY EFFECTS OF PAIN RECEPTORS P2X3 IN SENSORY NEURONS University of Bordeaux France 11/04/2008 (invited by E.Boue' Grabot)

## THESIS SUPERVISOR

1. Marta Atzori master thesis EFFICIENCY AND SPECIFICITY OF THREE MINISINEUPS ON BDNF EXPRESSION (patent, publication under review) University of Trieste 2019 (supervisor Tongiorgi, Fabbretti)
2. Giulia Antognolli master thesis: MORPHOLOGICAL AND FUNCTIONAL DAMAGE INDUCED BY AB PEPTIDE IN RAT HIPPOCAMPAL NEURONS (published) University of Trieste, 2018 (supervisor Tongiorgi, Fabbretti)
3. Silvia Iubatti thesis degree: DOLORE CENTRALE POST-ICTUS: APPROCCI FARMACOLOGICI University of Trieste, 2018 (supervisor Stocco, Fabbretti)
4. Valentina Tiriticchio thesis degree: ALTERAZIONI DELLA FUNZIONALITÀ MITOCONDRIALE INNESCATE DAL PEPTIDE B-AMILOIDE NEL MORBO DI ALZHEIMER University of Trieste, 2018 (Tongiorgi, Fabbretti)

5. Luigi Balasco master thesis: COMPARATIVE ANALYSIS OF MARKERS OF MACROPHAGE POLARIZATION IN TRIGEMINAL GANGLIA FROM MIGRAINE ANIMAL MODELS (poster at a conference) University of Trieste, 2017 (supervisor Fabbretti Vilotti)
6. Arletta Nowodworska PhD thesis: Characterization of ATP-gated P2X7 receptors of trigeminal ganglia in control conditions and in a mouse model of genetic migraine (published) SISSA 2015 (supervisor Nistri Fabbretti)
7. Tanja Bele PhD thesis in Molecular Biotechnology: MOLECULAR MECHANISMS REGULATING ATP SIGNALLING IN MOUSE SENSORY NEURONS (published) University of Nova Gorica, 2011-2015 (supervisor Fabbretti)
8. Stefano Calovi master thesis: STUDY OF THE EFFECTS OF SUSTAINED ACTIVATION OF P2X7 RECEPTORS IN THE MOUSE TRIGEMINAL GANGLION CULTURES University of Trieste, 2013 (supervisor Nistri Fabbretti)
9. Giorgio Bianchini master thesis CARATTERIZZAZIONE DI UN NUOVO MODULATORE DEI RECETTORI P2X3, IN COLTURE DI NEURONI TRIGEMINALI E IN MODELLI ESPRESSIONE: POSSIBILI CONSEGUENZE SULLA MODULAZIONE DELLA TRASDUZIONE NOCICETTIVA (published) University of Bologna, 2010 (supervisor Nistri Fabbretti)
10. Silvia Pittolo master thesis: EVALUATING NEUROPATHIC AND INFLAMMATORY OROFACIAL PAIN IN MICE: TRIAL OF A NEW TESTING METHOD WITH BEHAVIOURAL, ANATOMICAL AND HISTOLOGICAL ENDPOINTS University of Trieste 2010 (supervisor Battaglini, Avedano, Fabbretti)
11. Lucio Apicella thesis degree: IL RECETTORE P2X3 CONFERISCE UN FENOTIPO CITOTOSSICO ALLA LINEA CELLULARE HEK-293 (published) University of Trieste, 2009 (supervisor Nistri Fabbretti)
12. Nicol Birsa master thesis: MODULAZIONE DEL RECETTORE P2X3 IMPLICATO NELLA TRASDUZIONE DEL DOLORE: RUOLO DI CHINASI E FOSFATASI (published) University of Trieste 2008 (Nistri Fabbretti)
13. Lara Masten thesis degree: ESPRESSIONE, CARATTERIZZAZIONE E FUNZIONE DEI RECETTORI P2X3 RESPONSABILI DELL'AZIONE DELL'ATP QUALE MEDIATORE DEL DOLORE (published) University of Trieste, 2004 (supervisor Nistri Fabbretti)
14. Danijel Stojkovic PhD thesis in Environmental Sciences NOVEL APPLICATIONS OF OXYGENIC PHOTOSYNTHETIC ORGANISMS University of Nova Gorica 2015 (supervisor Fabbretti, Valant)
15. Olga Malev PhD thesis in Environmental Sciences TOXIC EFFECTS OF SELECTED NEONICOTINOIDS THROUGH DIFFERENT ORGANISATIONAL LEVELS: IN VITRO AND IN VIVO STUDIES (published) University of Nova Gorica 2012 (supervisor Fabbretti, Trebše)
16. Alja Markelj undergraduate thesis in Environmental Sciences: IMPACT OF DISPERSION PREPARATION METHOD ON TOXICITY OF SELECTED NANOMATERIALS University of Nova Gorica 2012 (supervisor Fabbretti, Bednarsek)

#### OTHER ADVISOR ACTIVITIES

17. Advisor of PhD students: M.D'Arco, M.Simonetti, A.Franceschini, A.Gnanasekeran with research on: MOLECULAR MECHANISMS OF PURINERGIC SIGNALING IN TRIGEMINAL GANGLIA AND NEUROINFLAMMATION IN ANIMAL MODEL OF FAMILIAL HEMIPLEGIC MIGRAINE FHM-1A at SISSA Trieste 2006-2016 (Nistri, Fabbretti)
1. Advisor of visiting students from Worcester Polytechnic Institute USA for 8 weeks, project: DEVELOPING A DEVICE TO INVESTIGATE MIGRATION OF AXON THROUGH A FIBROTIC SCAR at University of Nova Gorica 2015 (Fabbretti, Dominko)
2. Advisor of visiting students from Worcester Polytechnic Institute USA for 8 weeks, project: OPTIMIZATION OF SPHEROID FORMATION: THE CASE OF MN9D CELLS AS A TOOL TO ASSESS CYTOTOXICITY AND NEURODEGENERATION at University of Nova Gorica 2013 (Fabbretti, Dominko)
3. Advisor of undergrad students D.Lojen, S.Klemenčič, S.Muparutsa, N.Nemec, S.Pribovšek, L.Seljak, project: CELL-MEDIATED RESPONSES TO ENVIRONMENTAL STRESSORS, University of Nova Gorica period 2011-2013 (Fabbretti)
4. Advisor of undergrad students P.Peternelj and S.Pribovšek University of Nova Gorica, project: SILVER NANOPARTICLE TOXICITY (NANOSILVER HX 1000) IN RAT J774.2 INFLAMMATORY CELLS, University of Nova Gorica period 2014-2016 (Fabbretti)
5. Advisor of the visiting student Ke Chen, from Wuhan University China at University of Nova Gorica Slovenia 2009-2011 (Fabbretti, Trebše)

## PROJECTS AWARDED

1. MEMORI-NET - NETWORK PER LA RIABILITAZIONE MENTALE E MOTORIA DELL'ICTUS - Call INTERREG V ITA-SLO University of Nova Gorica 01/10/2017 - 30/06/2019 (Fabbretti, Tongiorgi et al)
2. STUDY OF THE EFFECTS OF PERIPHERAL ELECTRICAL STIMULATION ON TISSUE REMODELLING AND ANALGESIA - Call Project BI-HR/16-17-004 Research Agency of Republic of Slovenia ARRS University of Nova Gorica 2016-2017 (Fabbretti, Sapunar)
3. RESOLVING THE MECHANISM OF NEUROINFLAMMATION FOR THE INNOVATIVE THERAPY OF NEURODEGENERATIVE DISEASES - Call Project J3—5503 Research Agency of Republic of Slovenia ARRS University of Nova Gorica 01/08/2013 – 31/07/2016 (Hafner, Fabbretti)
4. PhD FELLOWSHIP for Ms. Tanja Bele funded by Research Agency of Republic of Slovenia ARRS University of Nova Gorica 01/11/2011 – 10/12/2015 (supervisor Fabbretti)
5. MOLECULAR NEUROBIOLOGY OF CHRONIC TRIGEMINAL PAIN - STUDY OF CELLULAR AND SIGNALLING MECHANISMS INVOLVED IN THE TRANSLATION OF PAIN SIGNALS - Call J3—2376 Research Agency of Republic of Slovenia ARRS University of Nova Gorica 01/05/2009 – 30/04/2012 (Fabbretti)
6. MINA – ENVIRONMENTAL POLLUTANTS AND NEURODEGENERATIVE DISEASES Call INTERREG ITA-SLO with audit process, University of Nova Gorica 01/10/2012 - 01/03/2015 (Fabbretti, Tell, Gustincich)
7. PESTICIDES AND NEURONAL SENSITIZATION: A PILOT STUDY Call CRP/ICGEB 2010-2013 (Fabbretti)
8. REBOUND - RESEARCHERS ON THE BOUNDARY - FP7 PEOPLE-2011-NIGHT University of Nova Gorica (Purg, Fabbretti)

## OTHER PARTICIATION TO PROJECTS

1. Work in SISSA in EUROHEADPAIN, MECHANISMS AND TREATMENT OF MIGRAINE AND ITS CHRONIFICATION funded by EU FP7 2014-2017 (Nistri)
2. Work in SISSA in NEW MOLECULAR BASES FOR MIGRAINE funded by Fondazione Cariplo 2011-2014 (Abbracchio, Nistri)
3. Work in SISSA in ROLE OF ATP IN MIGRAINE funded by Fondazione Telethon 2006-2018 (Nistri Abbracchio)
1. Work in SISSA in SCANNING NEAR FIELD MICROSCOPY, SNOM funded by Regione Friuli Venezia Giulia 2005-2010 (Zweyer, Nistri)
2. Work at University of Nova Gorica in NANOFORCE NANOTECHNOLOGY FOR CHEMICAL ENTERPRISES-HOW TO LINK SCIENTIFIC KNOWLEDGE TO THE BUSINESS IN THE CENTRAL EUROPE - INTERREG Central Europe 2011-2013 (Lavrenčič Štangar)
3. Work at University of Nova Gorica in SUNGREEN (Valant, Gardonio)

## OUTREACH – ORGANISATION OF EVENTS – DISSEMINATION - NDA

1. Barbieri, Fabbretti, Vidau editing of a book of Proceedings entitled INEST – GENERAL FRAME OF THE PROJECT AND ACTIVITIES OF YOUNG RESEARCHERS AT THE UNIVERSITY OF TRIESTE - EUT ed. 2026 ISBN 978-88-5511-661-9 <https://eut.units.it/it/catalogo/inest--interconnected-nord-est-innovation-ecosystem-general-frame-of-the-project-and-activities-of-y/11111>
2. NDA as Consultant for Chiesi Farmaceutici S.P.A. 21/04/2025 - 31/12/2025
3. Member of the Organising committee of 2 Neurobiology Summer Schools entitled FROM ELECTROPHYSIOLOGY TO IMAGING AND BIONANOTECHNOLOGY - SISSA and University of Nova Gorica 14-25/07/2014 and 08-19/06/2015
4. Organisation of the MINA Project Conference ENVIRONMENT & HEALTH: EPIGENETIC MECHANISMS TO DESIGN REPAIR SOLUTIONS, University of Nova Gorica 26-27/03/2015
5. NDA with 3D Research company for the development of new bio-compatible materials 2014
6. NDA with NeuroZone company for the in vitro compound screening 2014
7. Fabbretti MINA-INQUINANTI AMBIENTALI E MALATTIE NEURODEGENERATIVE: UNO STUDIO MULTIDISCIPLINARE BASATO SU RICERCA, FORMAZIONE E INNOVAZIONE in Trans2care. Cross-Border Italy-Slovenia Biomedical Research. Are we ready for Horizon 2020? EUT ed. ISBN 978-88-8303-572-2 2014, with Oral contribution on 27/02/2014 <https://eut.units.it/it/catalogo/trans2care-cross-border-italy-slovenia-biomedical-research-are-we-ready-for-horizon-2020/14>
8. Organisation of 2 Courses for students from University of Nova Gorica & University of Trieste: 1) FROM LAB TO APPLIED SCIENCE: THE INDUSTRIAL BIOTECHNOLOGY CHALLENGES 13-17/01/2014 and 2) FROM LAB TO APPLIED SCIENCE: INDUSTRIAL BIOTECHNOLOGIES FOR BRAIN DISORDERS 08-16/01/2013 (Tongiorgi, Fabbretti)

9. Member of the Organising committee of the International Summer School FROM 2D BIOLOGY TO ENGINEERED 3D MEDICAL SOLUTIONS – Worcester Polytechnic Institute USA & University of Nova Gorica Slovenia 23-31/08/2013 (Dominko, Bele, Fabbretti)
10. Organisation of the Workshop TOXICOLOGY RELATED TOPICS: \*ECO- \*NANO- University of Nova Gorica 14-15/06/2013 (Fabbretti, Trebše)
11. E.Fabbretti, L.Butinar, M.Bergant QUARK p.33-35, ISSN 1318-2641 2012
12. Organisation of RESEACHER’S NIGHT 2011 at Gorizia-Nova Gorica with University of Udine 23/09/2011, project REBOUND RESEARCHERS ON THE BOUNDARY, call FP7-PEOPLE-2011-NIGHT n.287424
13. Award PROMETEO DELLA SCIENZA PER L'ECCELLENZA NELLA COMUNICAZIONE by the Slovenian Academy of Sciences to E.Fabbretti 15/12/2011
14. Member of the Organising committee of the Conference SUNGREEN - SLOVENIAN-ITALIAN CONFERENCE ON MATERIALS AND TECHNOLOGIES FOR SUSTAINABLE GROWTH University of Nova Gorica 04-06/05/2011, with M.Valant, S.Gardonio
15. Member of the Organising committee of the Conference EMEC11 with P.Trebse
16. Organisation of a Symposium ATP IN HEALTH AND DISEASE, Federation of European Physiological Societies Meeting FEPS 2009, Ljubljana, Slovenia 12-15/11/2009 (Fabbretti)
17. Radio Interview in RAI 2013, articles in Area magazine n.38 2008, SISSA News, Panorama 2007, FEST 16-20/04/2008 (Fabbretti)

## Other competences

TOPIC	TOPIC	HOURS
<b>Ethics</b>	University of Padua 2024-2025 – Course certificate in Bioethics – Thesis entitled DIGITAL TECHNOLOGIES IN THE HEALTH SECTOR (Fabbretti, discussed on 12/09/2025)	na
	PRONTI PERCHÉ EQUIPAGGIATI DI BELLEZZA: RIFLESSIONI SUL DIGITAL TWIN DELLA PERSONA E L'ARTIFICIALE IN CONTESTI DI CURA (Fabbretti), in progress	na
<b>Cultural organisations</b>	- GLI ARCHIVI DIGITALI PER LA CULTURA (DL18M), Stefano Pagliapoco dell'University of Macerata, DICOLAB Ministero della Cultura e Digital Library <sup>7</sup> 26/03/2024	4
	- LE COMPETENZE DIGITALI PER LE ORGANIZZAZIONI CULTURALI, Giuseppe Iacono, DICOLAB Ministero della Cultura e Digital Library 24/03/2024	4
	- LO HUMAN CENTERED DESIGN PER LE ORGANIZZAZIONI CULTURALI (DL14M-2) di M.C.Lavazza, DICOLAB Ministero della Cultura e Digital Library 09/06/2024	4
<b>Administration</b>	- PERCORSO FORMATIVO SU CONTABILITÀ – Applicativo UGOV – Modulo Progetti in Amministrazione, University of Trieste 25/10/2024, 04/11/2024, 08/11/2024	12
	- APPLICAZIONE DELLA DISCIPLINA DEGLI AIUTI DI STATO NELL'AMBITO DEI PROGRAMMI FINANZIATI DALL'UE, European Cooperation in Research and Education (EU-CORE), University of Trieste 27/05/2024	6
<b>Financial reporting</b>	- GESTIONE E RENDICONTAZIONE NELL'AMBITO DEI PNRR European Cooperation in Research and Education (EUCORE), University of Trieste, 09/06/2024	6
	- IL PIANO NAZIONALE DI RIPRESA E RESILIENZA PNRR: GESTIONE E RENDICONTAZIONE NELL'AMBITO DELLA COMPONENTE 2 DALLA RICERCA ALL'IMPRESA Adele Del Bello - Tempo Innovation Source srl, Milano 03-04/10/2024	13
<b>Project management</b>	- PROGETTARE IL FUTURO: GESTIONE, AUDIT E IMPATTI STRATEGICI DEL PNRR (M4,C2) Adele Del Bello - Tempo Innovation Source srl Bologna 23-24/10/2025	10
	- LA RISPOSTA ALL'ATTIVITÀ DI AUDITING DELLA COMMISSIONE EUROPEA NELL'AMBITO DEI PROGRAMMI HORIZON 2020 E HORIZON EUROPE, European Cooperation in Research and Education (EU-CORE), University of Trieste 03/07/2024	6

<sup>7</sup> Offerta formativa Dicolab. Cultura al digitale, un'iniziativa realizzata e curata dalla Fondazione Scuola dei beni e delle attività culturali e promossa dal Ministero della Cultura - Digital Library nell'ambito del Piano Nazionale di Ripresa e Resilienza (PNRR) Cultura 4.0, Finanziato dall'Unione Europea NextGenerationEU

	- PROJECT MANAGEMENT. METODI E STRUMENTI DIGITALI PER LA GESTIONE DEI PROGETTI (DL13M) di Tommaso Buganza del Politecnico di Milano, DICOLAB Ministero della Cultura e Digital Library 19/03/2024	4
<b>Anvur</b>	- AVA3: ACCREDITAMENTO PERIODICO DELLE SEDI E DEI CORSI DI STUDIO UNIVERSITARI E AUTOVALUTAZIONE, University of Trieste 04/04/2024	2
<b>Dissemination</b>	- DEFINIAMO LA TERZA MISSIONE, Network per la valorizzazione della Ricerca NETVAL e University of Udine 30/11/2023 e 01/12/2023	15,5
	- CONVEGNO NAZIONALE DI COMUNICAZIONE DELLA SCIENZA, SISSA Trieste 02-05/12/2025	16
<b>Data management and IP</b>	- RESEARCH DATA MANAGEMENT E OPEN DATA NEI PROGETTI, Agenzia Promozione della Ricerca Europea (APRE), University of Udine 03/10/2023	3
	- DATA MANAGEMENT PER LE ISTITUZIONI CULTURALI (DL11M), Deborah Agostino del Politecnico di Milano, DICOLAB Ministero della Cultura e Digital Library 19/03/2024	4
	- WORKSHOP ON INNOVATION MANAGEMENT AND INTELLECTUAL PROPERTY IN EU-FUNDED PROJECTS, European Research and Project Office (EURICE), University of Trieste, 28/05/2024	
<b>Synthetic data</b>	- Webinar PIATTAFORME DI DATI SINTETICI: INNOVAZIONE PER LA RICERCA E LA CURA Alessandro di Pietro organizzato da AINDO srl e BI-REX 10/04/2025	1
<b>Exploitation plan</b>	- HORIZON EUROPE PROJECT DESIGN: HOW TO DRAFT AN EXPLOITATION PLAN, Sistema Scientifico e dell'Innovazione del Friuli Venezia Giulia (SIS FVG), Area Science Park 05/04/2024	4
<b>Horizon, MSCA, ERC</b>	- VERSO HORIZON EUROPE Agenzia Promozione della Ricerca Europea (APRE) 11/12/2020	3
	- AZIONI MSCA (MARIE-SKLODOWSKA CURIE) DI RETE: STAFF EXCHANGES E DOCTORAL NETWORKS Agenzia Promozione della Ricerca Europea (APRE), 21/10/2022	4
	- PROGETTARE IN HORIZON EUROPE: FOCUS II PILASTRO E WP 2023-2024, Agenzia Promozione della Ricerca Europea (APRE) 17/01/2023	3,5
	- DESIGN OF RESEARCH PROJECTS FUNDED BY HORIZON EUROPE PROGRAMME - ADVANCED COURSE, Sistema Scientifico e dell'Innovazione del Friuli Venezia Giulia (SIS FVG), Area Science Park 28/10/2024 e 30/10/2024	6,5
		8
	- ERC IN HORIZON EUROPE: HOW TO WRITE A SUCCESSFUL PROPOSAL Agenzia Promozione della Ricerca Europea (APRE) SISSA 08-09-10/-9/2025	9
<b>About ESG</b>	Course HUMAN-CENTERED SUSTAINABILITY - UNA LEVA STRATEGICA PER L'INNOVAZIONE NELL'USO DELLE RISORSE - Silvia de Aloe di DialogicalLab e Elena Stoppioni di Lombardini22 at University of Trieste on 01/12/2025	6
	KPMG - SOSTENIBILITA' AZIENDALE / ESG – Sole24ore 2024	na

## Parallel interests

<b>Literature books</b>	Massimo Recalcati LA LEGGE DEL DESIDERIO Einaudi
	Umberto Galimberti L'ETICA DEL VIANDANTE Feltrinelli
	Alan Turing a cura di D.Marconi MACCHINE CALCOLATRICI E INTELLIGENZA Einaudi
	Guido Tonelli L'ELEGANZA DEL VUOTO Feltrinelli
	Hannah Arendt LA VITA DELLA MENTE Il Mulino
	Daniel Kahneman PENSIERI LENTI E PENSIERI VELOCI Oscar Mondadori
	Eric Kandell L'ETA' DELL'INCONSCIO Raffaello Cortina ed
	Rita Levi Montalcini ELOGIO DELL'IMPERFEZIONE Garzanti

## MANAGEMENT EXPERIENCE

**Experience in administrative and financial management at the University of Trieste, Research Sector, period 01/08/2023-30/04/2026** - Project Management of the PNRR Project iNEST - Interconnected Nord-Est Innovation Ecosystem of +11 M euro value, funded by e NextGenerationEU programme to University of Trieste (in charge to prof. Pierluigi Barbieri and prof. Maria Cristina Pedicchio). Support to the activities related to Spoke Leader n. 8 in the topic Maritime marine and inland water technologies: towards the digital twin of the upper Adriatic; our participation as affiliated to Spoke 2 Health, food and life style, participation as affiliated to Spoke 4 Cities architecture sustainable design, participation as affiliated to Spoke 9 Model, methods, computing technologies for Digital Tween, participation within the Cross-Cutting activities in the field of CC1 enterprenurship education start up and spin off, CC2 Lab Villages, CC3 Citizen Engagement and CC4 Education and Summer Schools. Specific activities that I personally carried out within INEST project are the following:

- **Monitoring of the project budget availability and generation of indirect costs**
- **Monitoring of the in-itinere scientific evaluation processes**
- **Financial Reporting of actual and indirect costs**
- **Organisation and admin duties related to 2 rounds of 4 calls for R&I grant application** (cascade funding) sponsored by University of Trieste with +5M euro, dedicated to 53 Italian public/private bodies (year 2023 and 2024), on-call support to all the beneficiaries, institutional audit activities
- **Organisation and admin duties related to a call for R&I projects dedicated to Young Researchers** sponsored by University of Trieste with +450k euro
- **Contribution in the organisation of a Call for Ideas** devoted to R&I activities of researchers and industries sponsored by University of Trieste with +75k euro
- **Participation to the activities promoted by the Hub INEST** periodic meetings organised by INEST Hub for the coordination of 9 Spokes admin representatives within the INEST consortium (Universities of Padua, Venice, IUAV, Verona, Trento, Bolzano, Udine, SISSA and Trieste)
- **Planning of dissemination actions to maximise the project impact:** outrich articles published on Sole24ore; organisation of the participation of UNITS INEST at to the 29<sup>th</sup> edition of Ecomondo Expo in Rimini (03-07/11/2025), organisation of the INEST final event in Trieste 11/12/2025; organisation of training activities done by DialogicalLab 01/12/2025; orgnisation of training activities done by EURICE 28/05/2024; orgnisation and editing of the Proceedings of INEST Young researcher's activities (EUT ed. 2026 ISBN 978-88-5511-661-9)

### **Experience in management at the University of Trieste, Health and Medical science Dept, period 31/12/2020-11/07/2023**

- Documental support for grant applications preparation and submission, including coordination with proponent partners, budget preparation and istitutional authorisation processes (INTERREG VI-A ITA-SLO project X-BRAIN.net, INTERREG VI-A ITA-SLO project C3B; Italian Space Agency)
- Management of newly awarded project grants, authorisation processes, UGOV financial accounts
- Contract agreements for student research fellowships and PhD conract agreements
- Admin support to the PI, institutional authorisations for purchasing materials and recruitment of personnel
- Financial reporting of projects awarded by EU for the followint calls: H2020-PHC-2014-2015 project HERCULES, H2020-SC1-2016-RTD project SPIDIA4P, H2020-WIDESPREAD-2018-2020 project TWINBRAIN, H2020-SC1-BHC-2018-2020 project iToBoS, H2020-SC1-PHE-CORONAVIRUS-2020-2 project ORCHESTRA, HORIZON-EURATOM-2021-NRT-01 project TITANS; by the Italian Space Agency project MARS-PRE, projects INTERREG VI-A ITA-SLO project C3B, POR FESR 2014-2020 project DOMINO, POR FESR 2014-2020 project NUTRIACT, FISRCOVID project KILLSPIKE, PRIN project SENSAGING, Regione Friuli Venezia Giulia project CURIOSA
- Management of Audit process for INTERREG VI-A ITA-SLO project C3B
- Management of Audit process for EU Certificate of Financial Statement project HERCULES

### **Experience in management at the University of Trieste, at Dept of Life science, period 01/09/2020-30/12/2020**

- Support to the PI and management of project MSCA ITN Consortium TRIM-NET, experience related to data management plan and open access activities.

Dr Elsa Fabbretti

