

DR. ILARIA PIERPAOLA DAL PRÀ *Curriculum Vitae et Studiorum*

Education & Marriage

- Born in Vicenza (Venetia, Italy) on June 29, 1965.
- Married Ubaldo Armato 1998
- *Degree in Biological Sciences* from Milan University
- *PhD in Molecular & Cellular Biology & Pathology* from Padua University .

Academic career

- Officially qualified as *Associate Professor of Histology and Embryology* (SSD BIO/17) (March 2017) after winning the corresponding National Contest.
- *Coordinator of the Histology and Embryology Section* since October 1, 2013-present. *Now at the Department of Surgery, Dentistry Paediatrics and Gynaecology.*
- *Coordinator of the Histology and Embryology Section* till 27 November 2019. Department of neurosciences, biomedicine and movement sciences
- *Department of reproduction and life science* till 2015.
- *Department of surgery and biomedical sciences 1998-2010*
- *University Lecturer and Aggregate Professor* after winning a national contest since October 1st, 2008-present at the UVMS, Verona, Italy.
- *Co-ordinator* (since March 1996-present) of the *Tissue Culture Laboratory* and of the *MALDI-TOF/MS Proteomics Laboratory* (since August 2004-present) of the HEU, UVMS, she is in charge of the ongoing experimental activities.
- *Research Associate and Scientific Technical Adjutant* (October 2002-September 2004)), after winning a national contest, the HEU, UVMS.
- *PhD Diploma in Molecular & Cellular Biology & Pathology* on February 13, 2002 from Padua University discussing a thesis on PKC- β_{II} 's role as an apoptotic lamin kinase that was soon published in the *J. Biol. Chem.*
- *PhD Student* (November 1997-November 2001) in the *Doctorate in Molecular & Cellular Biology & Pathology* c/o both Verona and Padua Universities.
- *Fellow of the Cariverona Foundation* (Verona; March 1996-October 1997), she resumed her work c/o the HEU, UVMS.
- *Fellow of the Gigi Ghirotti Foundation* (Vicenza), she worked in the (i) Haematology Unit, Vicenza Civic Hospital (October 1992-December 1994) specialising in cytofluorimetry, and in (ii) the Institute of Biological Sciences (IBS), National Research Council of Canada (NRC), Ottawa, Ontario, Canada (January 1995-February 1996) studying protein kinase C's role in apoptosis.
- *Research Trainee* (October 1991-March 1992) in the Biochemistry Department, Milan University, then (April-September 1992) in the Histology & Embryology Unit (HEU), University of Verona Medical School (UVMS), Verona, Venetia, Italy.

Scientific Research Activities & Collaborations

Dr. I. Dal Prà's **basic research activities** have concerned the mechanisms through which:

- *Amyloid- β -peptides (A β s) and prion peptide-(106-126) damage and kill human neurons;*
- *A β and a mixture of proinflammatory cytokines (IL-1 β , TNF- α , and IFN- γ) induce nitric oxide synthase (NOS)-2 and vascular endothelial growth factor (VEGF)-A surplus production in and release from normal (untransformed) cortical adult human astrocytes;*
- *PKC- ζ acts as the apoptotic lamin kinase in etoposide-treated pyF111 fibroblasts;*
- *Ap3A/Ap4A modulate differentiation and apoptosis in human cells.*

- *Specific proteomics changes are induced in (i) human astrocytes; and in (ii) human non-syndromic thoracic aortic aneurysms.*

Dr. I. Dal Prà's **applied research activities** have dealt with:

- *the production and biocompatibility of innovative protein (silk fibroin) scaffolds aimed at human connective tissue engineering;*
- *novel models of artificial skin;*
- *use of pig split-skin strips as temporary biological bandages for the therapy of severely extended burns and chronic ulcers;*
- *investigations of the mechanisms of the anti-psoriatic activity of Comano's (Trentino, Italy) thermal water.*
- *Scientific Advisor of Biotechnology Co. Ltd., Chongqing, China.*

As co-investigator Dr. I. Dal Prà has taken part in these funded research projects:

- *Health Project 1999-2002, the Cariverona Foundation (Verona, Italy) "Pathological mechanisms of action of A β s and mixtures of microglial cytokines on human neuroblastoma cells";*
- *Verona University Consortium Innovative Health Project, "Use of silk fibroin protein as a scaffold for human tissues regeneration and repair 1999-2001" (together with Professor U. Armato and Dr. Anna Chiarini);*
- *PRIN 1999, the Italian Ministry for University & Scientific and Technological Research (about the validation of simple or composite silk fibroin scaffolds for human tissue engineering); and*
- *PRIN 2005, the Italian Ministry for University & Scientific and Technological Research (about the proteomics of human non-syndromic aneurysms of the ascending aorta).*
- *Cardiovascular Disease Projects 2007 and 2008, the Cariverona Foundation (Verona, Italy; about the proteomics of the effects of continuous or pulsatile perfusion on human adult skeletal muscle and of Vascular Assist Devices on myocardiocytes)*
- *FSE (Social European Fund 2010)*
- *FSE (Social European Fund 2011)*
- *Joint Project 2014 –University of Verona-AB Analitica s.r.l. (Padua) ADVANCED BIOMEDICINE.*
- *Joint project 2016 –University of Verona-AB Analitica s.r.l. (Padua) ADVANCED BIOMEDICINE –positively evaluated.*
- *COOPERINT 2016, to fund the scientific stay and lecturing at UVMS of Professor JUN WU, Institute of Burn Research, Southwest Hospital, Third Military Medical University, Chongqing, 40038, China.*
- *Silk Biomaterial Milan Fund 2017 for research into a new cardiovascular implant of a silk fibroin-based biomaterial.*
- *Joint project 2018 –University of Verona-C.M.S.R. Veneto Medica S.r.l., Altavilla Vicentina (Vicenza) ADVANCED BIOMEDICINE on "Proteomic analysis of early precancerous markers in CIN1 cervicovaginal cells infected by oncogenic subtypes of human papillomaviruses (HPV)".*

Dr. Ilaria Dal Prà had or currently has research collaborations with:

- IBS, NRC, Ottawa, Ontario, Canada
- NPS Pharmaceuticals, Toronto, Ontario, Canada
- Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Moscow, Russia
- German Textile Institute (ITV), Denkerdorf, Germany
- Experimental Silk Institute, Milan, Italy
- Bioengineering Department, Polytechnic Institute, Milan, Italy
- Materials Department, Trento University, Italy
- Comano's (Trentino) Spa Research Center, Comano, Italy
- Neurology & Neurosurgery Clinics, Forensic Medicine Institute, Pathology Department, Heart Surgery Clinic, Dermatology Clinic, and Nephrology Clinic of UVMS, Italy
- Burns Center, The Major Hospital, Verona, Italy

- Institute for Burns Research, Third Military Medical University (TMMU), Chongqing, China
- Department of Cancer Biology, Mayo Clinic College of Medicine, Jacksonville, Florida 32224, USA.
- San Bortolo Vicenza Hospital-Microbiology Unit, Vicenza, Italy.
- Silk Biomaterials Spa, Lomazzo, Como, Italy.
- Biotechnology Co. Ltd., Chongqing, China.

Attività di cooperazione Internazionale

- Scientific advisor: Biotechnology Co.,Ltd., Chongqing, China.
- **COOPERINT 2016**, Prof. JUN WU of the INSTITUTE OF BURN RESEARCH, Southwest Hospital, Third Military Medical University, Chongqing, 40038, CHINA
- Along with Professors Ubaldo Armato and Jun Wu and with Dr. Anna Chiarini, Dr. Ilaria Dal Prà has acted as one of the main promoters of the *International Scientific Cooperation Agreement* between the **University of Verona Graduate School of Life and Health Sciences, PhD Course in Clinical & Experimental Biomedical Sciences, and the Affiliated Hospital of Zunyi Medical University, Zunyi, China. 2017-2020. 2020-2023.**
- **COOPERINT 2018**, Prof. Kai Yu Nie from Zunyi Medical College Affiliate Hospital. University of ZunYi-China.
- In collaboration with Professor Pietro Minuz, former President of Verona's Doctorate School, Professor Dal Prà could invite as Scientific Guest **Professor Zairong Wei** of the Affiliated Hospital of Zunyi Medical University, Zunyi, China (October 2018).
- In the framework of the **INVITE Project funded from the European Union Horizon 2020 research and innovation program under the Marie Skłodowska-Curie Grant Agreement No. 754345, 2018**, Professor Dal Prà was assigned a **3-year fellowship** by which Dr. Peng Hu from Zunyi Medical College Affiliate Hospital, University of ZunYi- China, could come to her Unit to work and get his PhD Degree (2018).
- In collaboration with Professors Jun Wu and Ubaldo Armato Professor Dal Prà could sign a **2019 Memorandum of Understanding for Research Collaboration between the Histology & Embryology Section, Department of Surgery, Dentistry, Pediatrics and Gynecology, Verona University, Italy and the Department of Burns, Sun Yat-Sen University, Guangzhou, China.**
- Part-time Professor at Burn Department in **The Second People's Hospital of Shenzhen- China. January 2020.**

Scientific Guest worker:

Dr. Ilaria Dal Prà has scientifically worked at:

- **National Research Council of Canada** (NRC; Ottawa, Ontario, Canada), as a Fellow of UVMS from January 1995 to February 1996
- **Haematology Unit**, S. Bortolo Hospital, Vicenza (Italy) as a Fellow of the Gigi Ghirotti Foundation (January-December 1994).
- **Proteomics Laboratory**, Institute of Burn Research, Southwest Hospital, Third Military Medical University, Chongqing, (China) from April to May 2012.

International Award and Certificates:

- **Best poster 1st place at the 7th International Congress on Vascular Dementia, Riga, Latvia, Oct 20-23, 2011.**
- **5 Certificates of Excellence in reviewing from Spandidos Publications (2017).**

National Scientific Excellence Prize

- **2013 Prize for Scientific Excellence (art. 29 co. 19 L. Dec 30, 2010, n. 240)**
- **CasRevolution Startup 2018, Milan Regione Lombardia**
- **Entrepreneurship Award, Department for Interanational Trade, and British Consulate General, Milan 2018**

International Patents

1. U. ARMATO, **I. DAL PRÀ**, et al. “Method for the preparation of a non-woven silk fibroin fabric”. PCT EU No. 01976631.0-IT0100501, 2001.
2. U. ARMATO, **I. DAL PRÀ**, et al. “Method for the preparation of a non-woven silk fibroin fabric” USA Patent Deposition: September 28, 2001. International Patent Publication No. WO02029141 (Appl. No. PCT/IT0100501). Published Apr 11, 2002. Accepted Oct 23, 2007.
3. U. ARMATO, **I. DAL PRÀ**, A. CHIARINI: “Use of calcilytic drugs as a pharmacological approach to the treatment and prevention of Alzheimer’s Disease, Alzheimer’s diseases- related disorder, and Down’s Syndrome Neuropathies.” WIPO/ PCT WO **2013/098588 A1** -2013.

National Patent

1. U. ARMATO, **I. DAL PRÀ**, K. KESENCI, C. MIGLIARESI, A. MOTTA. “Tessuto in fibroina di seta per applicazioni biomediche.” Oct 02, 2000. No. IT/01/00501. May 13, 2003 (Italian Ministry of Productive Activities).

Scientific Publications Synopsys

Dr. Ilaria Dal Prà has authored:

- **67 full papers** in refereed International Journals
- **3 International Patents**
- **1 Italian Patent**
- **6 Chapters in books** (3 of which cited in both Web of Science and Scopus)
- **8 Science Spreading Books**

Moreover, she has presented:

- **41 Communications** at International Meetings
- **23 Communications** at National Meetings

So far, her scientific papers have received in the International Scientific Literature Sources:

- **Scopus, 1760 citations; H index = 24;**
- **Web of Sciences: 1429 citations, H index= 22;**
- **Google Scholar, 2591 citations, H index = 26**

Editorial Board Memberships

Dr. I. Dal Prà is a member of the Editorial Board of the Journals:

- *Molecular Medicine Reports*
- *Helyos*
- *Oncology Report*

Reviewer activities

Dr. I. Dal Prà has acted as *Reviewer* for the following Journals:

- *Experimental and Therapeutic Medicine*
- *Helyos*

- *Human Genetics & Embryology*
- *Journal of Applied Polymer Science*
- *Molecular Immunology*
- *Neurological Research*
- *NeuroMolecular Medicine*
- *Oncology Reports*
- *Tissue Engineering*
- *International Journal of Molecular Sciences*

In addition, Dr. I. Dal Prà has acted as **Grant Applications Reviewer** for the *Italian Ministry for University & Research* (2012-2013) (2019-2020).

Scientific Society Membership & Biographic Citations

Dr. I. Dal Prà is a member of the:

- *Biochemical Society*
- *Italian Biomaterials Society.*
- *Italian Histology Council.*

Dr. I. Dal Prà biography is reported in *Who's Who in Science and Engineering*, 7^a ed., 2003-04, 8^a ed. 2004-05, Marquis Who's Who[®].

Scientific Publications

Full Papers

-Chiarini A., Armato U., Hu Peng., **Dal Prà I. Danger-Sensing/Patten Recognition Receptors and Neuroinflammation in Alzheimer's Disease. *Int.J.Mol.Sci.* 2020, 21,9036; doi:10.3390/ijms21239036**

-Chiarini A., Armato U., Hu P., **Dal Prà I. CaSR antagonist (Calcilitic) NPS 2143 Hinders the release of Neuroinflammatory IL-6, Soluble ICAM-1, RANTES, and MCP-2 from A β -Exposed Human Cortical Astrocytes. *Cells* 2020, 9, 1386; doi:10.3390/cells9061386.**

- Chiarini A., **Dal Prà, I.**, Faggian, G., Armato, U., Luciani, G.B. **Maladaptive remodeling of pulmonary artery root autografts after Ross procedure: A proteomic study. *Journal of Thoracic and Cardiovascular Surgery* Issue 2 February 2020-621-632. <https://doi.org/10.1016/j.jtcvs.2019.07.083>**

-Hu P, Yang Q, Wang Q, Shi C, Wang D, Armato U, **Dal Prà I**, Chiarini A. Mesenchymal stromal cells-exosomes: a promising cell-free therapeutic tool for wound healing cutaneous regeneration. ***Burns Trauma.* 2019 Dec 26;7:38. doi:10.1186/s41038-019-0178-8.** eCollection 2019. Review. PubMed PMID: 31890717; Central PMCID: PMC6933895.

-Alessandrino A, Chiarini A, Biagiotti M, **Dal Prà I**, Bassani GA, Vincoli V, Settembrini P, Pierimarchi P, Freddi G, Armato U: Three-Layered Silk Fibroin Tubular Scaffold for the Repair and Regeneration of Small Caliber Blood Vessels: From Design to in vivo Pilots Tests. ***Frontiers in Bioengineering and Biotechnology* 11/ 2019 doi: 10.3389/fbioe.2019.00356**

-**Dal Pra I**, Armato U, Chiarini A. Family C G-protein-coupled receptors in Alzheimer's disease and therapeutic implications ***Frontiers in Pharmacology Experimental Pharmacology and drug discovery* 28/10/2019 <https://doi.org/10.3389/fphar.2019.01282>**

-Chiarini A, Liu D, Rassu M, Armato U, Eccher C, **Dal Pra I.** TKTL1 AND CIP-2a PROTEIN LEVELS IN UTERINE CERVICAL EPITHELIUM SCRAPINGS AS DISCRIMINATING BIOMARKERS FOR THE TRIAGE OF HIGH-RISK HPV-INFECTED-LSIL/ASCUS-PATIENTS ***Frontiers in Oncology, section Women's Cancer* Open Access Volume 9, Issue APR, 2019, Article number 213 <https://doi.org/10.3389/fonc.2019.00213>**

-CHIARINI A, ONORATI FO, MARCONI M; PASQUALI BSC, PATUZZO C, IRTYEGA O, FAGGIAN G, PIGNATTI PF, TRABETTI E., ARMATO U., **DAL PRÀ I.** *Studies on sporadic non-syndromic thoracic aortic aneurysms. 1. Deregulation of Jagged/Notch 1 homeostasis and selection of synthetic/secretor phenotype smooth muscle cells*”. **EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY** - 2018, Vol. 25 (15) 42-50.

-CHIARINI A, ONORATI FO, MARCONI M, PASQUALI BS, PATUZZO C, IRTYEGA O, FAGGIAN G, PIGNATTI PF, TRABETTI E., ARMATO U, **DAL PRÀ I.** *Studies on Sporadic Non-Syndromic Thoracic Aortic Aneurysms. 2. Alteration of Extra-Cellular Matrix Components and Focal Adhesion Proteins.* **EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY** - accepted for publication - 2018, Vol. 25 (15) 51-58.

-CHIARINI A, ARMATO U, WITHFIELD J, **DAL PRÀ I.** *Targeting Human Astrocytes' Calcium-sensing Receptors for Treatment of Alzheimer's Disease.* **CURRENT PHARMACEUTICAL DESIGN** -Vol. 23(33) 4990-5000- July 2017. Doi: 10.2174/1381612823666170710162509

-CHIARINI A, ARMATO U, GARDENAL E, GUI L, **DAL PRÀ I.** *Calcium-Sensing Receptor Antagonist NPS 2143 Restores Amyloid Precursor Protein Physiological Non-Amyloidogenic Processing in β -Exposed Adult Human Astrocytes* - **SCIENTIFIC REPORTS** 2017 April 28; 7(1):1277. Doi: 10.1038/s41598-017-01215-3.

-CHIARINI A, ARMATO U, GARDENAL U, GUI L, **DAL PRÀ I.** *Amyloid β -exposed human astrocytes overproduce phospho-Tau and overrelease it within exosomes, effects suppressed by calcilytic NPS 2143-- Further implications for Alzheimer's therapy,* **FRONTIERS IN NEUROSCIENCE** 2017 April 20; 11:217. Doi: 10.3389/fnins.2017.00217. eCollection 2017.

-GARDENAL E, CHIARINI A, ARMATO U, **DAL PRÀ I,** VERKHRATSKY A, RODRÍGUEZ JJ. *Increased Calcium-Sensing Receptor Immunoreactivity in the Hippocampus of a Triple Transgenic Mouse Model of Alzheimer's Disease.* **FRONTIERS IN NEUROSCIENCE** 2017 Feb 16; 11:81. Doi: 10.3389/fnins.2017.00081. eCollection 2017.

-CHIARINI A, FREDDI G, LIU D, ARMATO U, **DAL PRÀ I,** *Biocompatible Silk Noil-Based 3d Carded-Needled Nonwoven Scaffolds Guide the Engineering of Novel Skin Connective Tissue.* **TISSUE ENGINEERING PART A,** 22(15-16): 1047-60. Doi: 10.1089/ten.TEA.2016.0124. Epub ahead of print: Jul 13, 2016.

-CHIARINI A, ARMATO U, LIU D, **DAL PRÀ I.** *Calcium-Sensing Receptors of Human Neural Cells Play Crucial Roles in Alzheimer's Disease.* **FRONTIERS IN PHYSIOLOGY, SECTION INTEGRATIVE PHYSIOLOGY** 2016 Apr 26; 7:134. Doi: 10.3389/fphys.2016.00134. eCollection 2016.

-GUGLIELMI V, VATTEMI G, CHIGNOLA R, CHIARINI A, MARINI M, **DAL PRÀ I,** DI CHIO M, CHIAMULERA C, ARMATO U, TOMELLERI G. *Evidence for caspase-dependent programmed cell death along with repair processes in affected skeletal muscle in patients with mitochondrial disorders.* **CLINICAL SCIENCE (Lond.)** 2016 Feb; 130(3): 167-81. doi: 10.1042/CS20150394. Epub ahead of print 2015 Nov 02.

-YANG SS, TAN JL, LIU DS, LORENI F, PENG X, YANG QQ, HE WF, YAO ZH, ZHANG XR, **DAL PRÀ I,** LUO GX, WU J. *eIF6 modulates myofibroblast differentiation at TGF- β 1 transcription level via H2A.Z occupancy and Sp1 recruitment.* **JOURNAL OF CELL SCIENCE** 128(21): 3977-89, 2016. Doi: 10.1242/JCS.174870. Epub ahead of print 2015 Nov. 01.

-WHITFIELD JF, CHIARINI A, **DAL PRÀ I,** ARMATO U, CHAKRAVARTHY B. *The Possible Roles of the Dentate Granule Cell's Leptin and Other Ciliary Receptors in Alzheimer's Neuropathology.* **CELLS** 4(3): 253-74, 2015. Doi: 10.3390/cells4030253. Epub ahead of print 2015 Jul 13.

-CHIARINI A, LIU D, ARMATO U, **DAL PRÀ I.** *Bcl10 Crucially Nucleates Proapoptotic Complexes Including PDK1, PKC-Zeta, and Caspase-3 at the Nuclear Envelope of Etoposide-Treated Human Cervical*

Carcinoma C4-I Cells. 2015. **INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE** 2015 Sep; 36(3): 845-56. Doi: 10.3892/ijmm.2015.2290. Epub 2015 Jul 20.

-CHIARINI A, GARDENAL E, WHITFIELD JF, CHAKRAVARTHY, ARMATO U, **DAL PRÀ I**. Preventing the Spread of Alzheimer's Disease Neuropathology: A Role for Calcilytics? **CURRENT PHARMACEUTICAL BIOTECHNOLOGY**, 2015, 16(8): 696-706.

-**DAL PRÀ I**, CHIARINI A, ARMATO U. Antagonizing Amyloid- β /Calcium-sensing Receptor Signalling in Human Astrocytes and Neurons: ¹¹SEP A Key to Halt Alzheimer's Disease Progression? **NEURAL REGENERATION RESEARCH** 2015 Feb; 10(2): 213-8. Doi: 10.4103/1673-5374.152373.

-**DAL PRÀ I**, CHIARINI A, PACCHIANA R, GARDENAL E, CHAKRAVARTHY B, WHITFIELD JF, ARMATO U. Calcium-Sensing Receptors of Human Astrocyte-Neuron Teams: Amyloid- β -Driven Mediators and Therapeutic Targets of Alzheimer's Disease. **CURRENT NEUROPHARMACOLOGY** 2014 Jul; 12(4): 353-64. Doi: 10.2174/1570159X12666140828214701.

-PACCHIANA R, ABBATE M, ARMATO U, **DAL PRÀ I**, CHIARINI A. Combining immunofluorescence with in situ proximity ligation assay: a novel imaging approach to monitor protein-protein interactions in relation to subcellular localization. **HISTOCHEMISTRY & CELL BIOLOGY** 2014, 142(5): 593-600. Doi: 10.1007/s00418-014-1244-8. Epub 2014 Jul 11.

-**DAL PRÀ I**, ARMATO U, CHIOFFI F, PACCHIANA R, WHITFIELD JF, CHAKRAVARTHY B, GUI L, CHIARINI A. The β Peptides-Activated Calcium-Sensing Receptor Stimulates the Production and Secretion of Vascular Endothelial Growth Factor-A by Normoxic Adult Human Cortical Astrocytes. **NEUROMOLECULAR MEDICINE**. 2014, 16(4): 645-57. Doi: 10.4103/1673-5374.152373.

-**I. DAL PRÀ**, A. CHIARINI, R. PACCHIANA, E. GARDENAL, B. CHAKRAVARTHY, J.F. WHITFIELD, U. ARMATO. Calcium-Sensing Receptors of Human Astrocyte-Neuron Teams: Amyloid-Driven Mediators and Therapeutic Targets of Alzheimer's Disease. **WORLD BIOMEDICAL FRONTIERS** 1(8):1-4 (2014).

-**DAL PRÀ I**, CHIARINI A, GUI L, CHAKRAVARTHY B, PACCHIANA R, GARDENAL E, WHITFIELD JF, ARMATO U. Do Astrocytes Collaborate with Neurons in Spreading the "Infectious" β And Tau Drivers of Alzheimer's Disease? **NEUROSCIENTIST** 2015, 21(1): 9-29. Doi: 10.1177/1073858414529828. Epub 2014 Apr 16.

-ARMATO U, CHIARINI A, CHAKRAVARTHY B, CHIOFFI F, PACCHIANA R, COLARUSSO E, WHITFIELD JF, **DAL PRÀ I**. Calcium-Sensing Receptor Antagonist (Calcilytic) NPS 2143 Specifically Blocks the Increased Secretion of Endogenous β 42 Prompted by Exogenous Fibrillary or Soluble β 25-35 in Human Cortical Astrocytes and Neurons—Therapeutic Relevance to Alzheimer's Disease. **BIOCHIMICA BIOPHYSICA ACTA – MOLECULAR BASIS OF DISEASE** 2013, 1832(10): 1634-52. Doi: 10.1016/j.bbdis.2013.04.020. Epub 2013 Apr 26.

-CHAKRAVARTHY B, GAUDET C, MÉNARD M, BROWN L, ATKINSON T, LAFERLA FM, ITO S, ARMATO U, **DAL PRÀ I**, Whitfield JF. Reduction of the Immunostainable Length of the Hippocampal Dentate Granule Cells' Primary Cilia in 3xAD-Transgenic Mice Producing Human β (1-42) and Tau. **BIOCHEMICAL & BIOPHYSICAL RESEARCH COMMUNICATIONS** 2012 Oct 12; 427(1): 218-22. Doi: 10.1016/j.bbrc.2012.09.056. Epub 2012 Sep 17.

-ARMATO U, BONAFINI C, CHAKRAVARTHY B, PACCHIANA R, CHIARINI A, WHITFIELD JF, **DAL PRÀ I**. The Calcium-sensing Receptor: A Novel Alzheimer's Disease Crucial Target? **JOURNAL OF NEUROLOGICAL SCIENCES** 2012 Nov 15; 322(1-2): 137-40. Doi: 10.1016/j.jns.2012.07.031. Epub 2012 Jul 28.

-CHIARINI A, MARCONI M, PACCHIANA R, **DAL PRÀ I**, WU J, ARMATO U. Role-shifting PKC ζ Fosters its Own Proapoptotic Destruction by Complexing with Bcl10 at the Nuclear Envelope of Human Cervical Carcinoma Cells: A Proteomic and Biochemical Study. **JOURNAL OF PROTEOME RESEARCH** 2012 Aug 3; 11(8): 3996-4012. Doi: 10.1021/pr3000464. Epub 2012 Jul 19.

-HE W, HUANG C, LUO G, **DAL PRÀ I**, FENG J, CHEN W, MA L, WANG Y, CHEN X, TAN J, ZHANG X, ARMATO U, WU J. *A Stable Panel Comprising 18 Urinary Proteins in the Human Healthy Population*. **PROTEOMICS**. 2012, 12(7): 1059-72. Doi:10.1002/pmic.201100400.

-CHAKRAVARTHY B, MÉNARD M, ITO S, GAUDET C, **DAL PRÀ I**, ARMATO U, WHITFIELD JF. *Hippocampal Membrane-associated P75^{NTR} Levels Are Increased in Alzheimer's Disease*. **JOURNAL OF ALZHEIMER'S DISEASE** 2012; 30(3): 675-84. Doi: 10.3233/JAD-2012-120115.

-GOTTARDO R, CHIARINI A, **DAL PRÀ I**, SERI C, RIMONDO C, SERPELLONI G, ARMATO U, TAGLIARO F. *Direct Screening of Herbal Blends or New Synthetic Cannabinoids by MALDI-TOF MS*. **JOURNAL OF MASS SPECTROMETRY** 2012, 47(1): 141-6. Doi: 10.1002/jms.2036.

-ARMATO U, CHAKRAVARTHY B, CHIARINI A, **DAL PRÀ I**, WITHFIELD JF. *Editorial: Is Alzheimer's Disease at Least Partly a Ciliopathy?* **JOURNAL OF ALZHEIMER'S DISEASE & PARKINSONISM** 1:101e (2011). Doi: 10.4172/2161-046.1000101e.

-ARMATO U, CHAKRAVARTHY B, CHIARINI A, **DAL PRÀ I**, WHITFIELD JF. *Editorial: A Paradigm-changing Surprise from Dentate Gyrus Granule Cells—Cilium-localized p75^{NTR} May Give their Progenitor Cell Proliferation*. **JOURNAL OF ALZHEIMER'S DISEASE & PARKINSONISM** 1: e104 (2011). Doi: 10.4172/2161-0460.1000e104.

-ARMATO U, CHAKRAVARTHY B, CHIARINI A, CHIOFFI F, **DAL PRÀ I**, WHITFIELD JF *Editorial: Leptin, Sonic Hedgehogs, and Neurogenesis—A Primary Cilium's Tale*. **JOURNAL OF ALZHEIMER'S DISEASE & PARKINSONISM** 1: e105 (2011). Doi: 10.4172/2161-0460.1000e105.

-**DAL PRÀ I**, WHITFIELD JF, PACCHIANA R, BONAFINI C, TALACCHI A, CHAKRAVARTHY B, ARMATO U, CHIARINI A. *The Amyloid- β 42 Proxy, Amyloid- β (25-35), Induces Normal Human Cerebral Astrocytes to Produce Amyloid- β 42*. **JOURNAL OF ALZHEIMER'S DISEASE** 2011, 24(2): 335-47. Doi: 10.3233/JAD-2011-101626.

-ARMATO U., **DAL PRÀ I**, CHIARINI A., FREDDI G. Will silk fibroin nanofiber scaffolds ever hold a useful place in Translational Regenerative Medicine? **INTERNATIONAL JOURNAL OF BURNS & TRAUMA** 2011, 1(1): 27-33.

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 38. **I. DAL PRÀ**, A. CHIARINI, U. ARMATO. Invited Lecture: Interactions between amyloid-beta peptides and human astrocytes calcium-sensing receptors play crucial roles in Alzheimer disease. 22nd World Congress on Advances in Oncology & 20th International Symposium on Molecular Medicine, 5-7 Oct 2017, Athens, Greece. *INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE* 40: Suppl.1, p. S59, Abstr. No. 320.
 39. A. CHIARINI, U. ARMATO, **I. DAL PRÀ**. Calcilytic NPS 2143 upholds physiological APP processing in A β -exposed adult human astrocytes—Impact on Alzheimer therapy. The 3rd International Symposium on the Calcium-sensing Receptor (CaSR) May 11-13, (2017) Florence (Italy)

40. A CHIARINI, U ARMATO, Y. CHEN, **I. DAL PRÀ**. The CaSR, a member of C family GPCRs, as a specific drug target to treat Alzheimer's disease. GTC Bio-European Pharma Summit. November 16-17 (2017), Berlin (Germany)
41. **I. DAL PRÀ**, A. CHIARINI, U. ARMATO. Invited Short Oral Presentation: Calcium-Sensing Receptors Antagonists or Calcilytics Fully Suppress All the Alzheimer-promoting Neurotoxic Effects Elicited by Amyloid- β Peptides in Human Astrocytes and Neurons. AAT-AD/PD™ Focus Meeting 2018, Turin, Italy, 15-18 Mar 2018 (). Abstract no. AAT18-0102.

National Congresses Communications

1. U. ARMATO, C. CARDINALE, **I. DAL PRÀ**, C. GUERRIERO, E. REGALIA, L. TESTOLIN, E. TOGNANA. Investigations into the mechanisms controlling proliferation, differentiation, and apoptosis in hepatocytes, adrenocortical cells, keratinocytes, and osteoblasts cultured in vitro. 50° Congresso Nazionale, Società Italiana di Anatomia, Catania. *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 101: 1/Rel-7/Rel (1996).
2. **I. DAL PRÀ**, A. BARBA, A. CHIARINI, E. TOGNANA, U. ARMATO, G. C. CHEREGATO. Keratinocytes from familial psoriasis patients express high levels of chemokines". XV Congress of the International Federation of Associations of Anatomists and 4th International Malpighi Symposium, Roma. Abstracts Book (1999).
3. **I. DAL PRÀ**, A., CHIARINI, E. TOGNANA, U. ARMATO. Cultured normal human adult astrocytes express endothelial NO synthase activity". XV Congress of the International Federation of Associations of Anatomists and 4th International Malpighi Symposium, Roma. Abstracts Book (1999).
4. **I. DAL PRÀ**, A. CHIARINI, U. ARMATO. Modulation of NO synthase isoforms in cultured normal human adult astrocytes. 54° Congresso Nazionale, Società Italiana di Anatomia, Firenze. *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 105: Suppl. 1, p. 56 (2000).
5. K. KESENCI, A. MOTTA, L. FAMBRI, **I. DAL PRÀ**, C. MIGLIARESI. Materiali compositi per applicazioni biomediche ottenuti da un copolimero elastomerico biodegradabile e da fibroina (Bombyx mori). Giornate della Società Italiana di Biomateriali (SIB). Ischia Porto (NA). Abstract Book (2000).
6. A. CHIARINI, **I. DAL PRÀ**, U. ARMATO. Divers roles of protein kinase C- delta in proliferation and apoptosis of rat fibroblasts. 54° Congresso Nazionale, Società Italiana di Anatomia, Firenze. *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 10: Suppl. 1, p. 46 (2000).
7. A. CHIARINI, **I. DAL PRÀ**, U. ARMATO. Poliuretani/fibroina per applicazioni di ingegneria dei tessuti. II. Interazioni con i fibroblasti umani normali. 8° Congresso, Società Italiana di Biomateriali (SIB), Castelfandolfo, Program Book (2001).
8. A. BARBA, P. ROSINA, L. GERMI, M. TAROCCO, U. ARMATO, A. CHIARINI, **I. DAL PRÀ**, G. C. CHEREGATO. Associazione di auto e xenoinnesti di cute porcina nel trattamento delle ulcere vascolari croniche. Giornate di Terapia in Dermovenereologia: X Riunione, Acireale (CA), Program Book, XXIV, 105 (2001).
9. L. GERMI, P. ROSINA, M. TAROCCO, A. BARBA, U. ARMATO, A. CHIARINI, **I. DAL PRÀ**, G. C. CHEREGATO. Xenoinnesti di cute porcina su ulcere croniche di origine vascolare: valutazione dell'efficacia terapeutica. Società Italiana di Dermatologia e Venereologia, Congresso Interregionale Triveneto Emilia Romagna Marche, Piacenza, Program Book pp. 67-68 (2001).
10. A. CHIARINI, F. CORATO, J.F. WHITFIELD, U. ARMATO, **I. DAL PRÀ**. The apoptogenic etoposide and calphostin-C trigger different patterns of changes in the distribution and activities of protein kinase c- β_1 in polyomavirus-infected /transformed pyF111 rat fibroblasts. 56° Congresso Nazionale, Società Italiana di Anatomia, Pisa *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 108: Suppl. 1, p. 18 (2002).
11. A. CHIARINI, **I. DAL PRÀ**, J.F. WHITFIELD, U. ARMATO. The later activation but not the expression of inducible NOS (nitric oxide synthase)- 2 in cytokine-stimulated normal human astrocytes can be inhibited by U0126, a specific inhibitor of MEK-ERK kinases. 58° Congresso Nazionale, Società Italiana di Anatomia, Chieti, *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 109: Suppl. n. 1 al Fasc. 3, p. 218 (2004).
12. G. VATTEMI, P. TONIN, A. CHIARINI, **I. DAL PRÀ**, M. FILOSTO, M. DI CHIO, U. ARMATO, N. RIZZUTO, G. TOMELLERI. Programmed cell death occurs in muscle fibers with mitochondrial dysfunction." 41st Congresso Associazione Italiana di Neuropatologia, con la Società Francese di Neuropatologia, e 31st Congresso Associazione Italiana per la Ricerca Invecchiamento Cerebrale, Saluzzo 26-28 Maggio, 2005 (Abstract book).
13. U. ARMATO, A. CHIARINI, **I. DAL PRÀ**, R. PACCHIANA, L. MENAPACE, G. ZUMIANI. Effetti dell'acqua termale di Comano sulla sintesi e secrezione di citochine e chemochine in cheratinociti psoriasici in vitro." XV Congresso Medico Scientifico "Psoriasi, oggi e domani". Terme di Comano (Trentino), 9-10 April 2005. Abstract Book.
14. **I. DAL PRÀ**, A. CHIARINI, E. NEMETH, U. ARMATO, J.F. WHITFIELD. The roles of Ca²⁺ and the Ca²⁺-sensing receptor (CASR) in the expression of inducible NOS (nitric oxide synthase)-2 and its BH4

- (tetrahydrobiopterin)-dependent activation in cytokine-stimulated adult human astrocytes.” 59° Congresso Nazionale della Società Italiana di Anatomia e Istologia, Sorrento, *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 110: Suppl. n. 1 al Fasc. 3, p. 28 (2005).
15. A. CHIARINI, **I. DAL PRÀ**, L. MENAPACE, R. PACCHIANA, J.F. WHITFIELD, U. ARMATO. Soluble amyloid beta-peptide and myelin basic protein strongly stimulate, alone and in synergism with combined proinflammatory cytokines, the expression of functional nitric oxide synthase-2 in normal adult human astrocytes“. 59° Congresso Nazionale della Società Italiana di Anatomia e Istologia, Sorrento, *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 110: Suppl. n. 1 al Fasc. 3, p. 29 (2005).
 16. Invited Lecture: A. CHIARINI, **I. DAL PRÀ**, U. ARMATO. Investigations into protein kinase-mediated mechanisms in tumor cell apoptosis, in amyloid- and prion-elicited neuronal degeneration, and astrocytic NOS expression. 60° Congresso Nazionale, Società Italiana di Anatomia e Istologia, Pavia, *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 111: Suppl. n. 2 al Fasc. 3, p. XIV-XVI (2006).
 17. **I. DAL PRÀ**, A. CHIARINI, G. FAGGIAN, A. MAZZUCCO, U. ARMATO. Studi sul proteoma dell'aorta ascendente umana normale e colpita da aneurisma non sindromico. Riunione Scientifica del Consiglio degli Istologi e Embriologi Italiani, Roma, 28 Giugno (2007).
 18. A. CHIARINI **I. DAL PRÀ**, R. PACCHIANA, J.F. WHITFIELD, U. ARMATO. The selective proteasomal destruction of nuclear lamin B1 induced in pyF111 rat fibroblasts by photoexcited calphostin C. 61° Congresso Nazionale, Società Italiana di Anatomia e Istologia, Sassari, *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 112: Suppl. n. 2 al Fasc. 3, p. XIV- XVI (2007).
 19. A. PASQUALI, M. BISCUOLA, C. PATUZZO, E. TRABETTI, **I. DAL PRÀ**, A. CHIARINI, M. MARCONI, R. PACCHIANA, U. ARMATO, M. IAFRANCESCO, F. SANTINI, G. FAGGIAN, A. MAZZUCCO, P.F. PIGNATTI. Analisi di espressione genica in aneurismi non sindromici dell'aorta ascendente. Congresso della Società Italiana Genetica Umana, Montecatini Terme, 14-16 November (2007).
 20. **I. DAL PRÀ**, A. CHIARINI, M. MARCONI, R. PACCHIANA, U. ARMATO, M. BISCUOLA, C. PATUZZO, E. TRABETTI, P.F. PIGNATTI, G., M. IAFRANCESCO, F. SANTINI, G. FAGGIAN, A. MAZZUCCO, Proteomic investigation into non-syndromic aneurysm of the human ascending aorta. Cardiothoracic Surgery Network – XXIV National Meeting of the Italian Society for Cardiac Surgery, Nov. 8-11, Roma (2008).
 21. M. DODONOV, A. MILANO, A. CHIARINI, **I. DAL PRÀ**, G. SACCOMANI, N. MODENA, G. FAGGIAN, U. ARMATO. Proteomic analysis of skeletal muscle in patients undergoing pulsatile versus continuous perfusion during cardiopulmonary bypass. XXVI National Meeting of the Italian Society for Cardiac Surgery, Roma (2010). Abstracts Book.
 22. A. CHIARINI, M. MARCONI, R. PACCHIANA, U. ARMATO, **I. DAL PRÀ**. Role-shifting PKC-zeta fosters its own proapoptotic destruction by complexing with Bcl10 protein at the nuclear envelope of human cervical carcinoma cells.” 66° Congresso Nazionale della Società Italiana di Anatomia e Istologia, Pistoia - September 20-23. *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 117: Suppl.n.2, 40 (2012)
 23. A. CHIARINI, R. PACCHIANA, E. GARDENAL, U. ARMATO, **I. DAL PRÀ**. Calcium-sensing receptor antagonist (calcilytic) NPS2143 prevents the increased secretion of endogenous Abeta42 prompted by exogenous Abeta25-35 in human cortical astrocytes and neurons. 67° Congresso Nazionale della Società Italiana di Anatomia e Istologia, Pistoia - September 20-23 *ITALIAN JOURNAL OF ANATOMY & EMBRYOLOGY* 118: Suppl. no. 2, 54 (2013)

Science spreading books

1. U. ARMATO, **I. DAL PRÀ**, A. ARMATO. *Le Basi Essenziali di Neuroanatomia Clinica e Neurofisiologia*. Translation of “*MANTER'S AND GATZ'S ESSENTIALS OF CLINICAL NEUROANATOMY AND NEUROPHYSIOLOGY*” di S. Gilman e S. Winans Newman, 10th Ed., Piccin Nuova Libreria S.p.A. (Padova) (2004). ISBN 88-299-1719-2.
2. U. ARMATO, A. CHIARINI, **I. DAL PRÀ**, A. CHIARINI, U. ARMATO., A. ARMATO. *Compendio di Istologia*. Testo-Atlante. Translation of “*BASIC HISTOLOGY TEXT AND ATLAS*” di L. C. Junqueira & J. Carneiro, 5^a Ed. Ital. sulla 10th Engl., Piccin Nuova Libreria S.p.A. (Padova) (2006). ISBN 88-299-18-17- 2.
3. **I. DAL PRÀ**, A. CHIARINI, U. ARMATO, *et al.*, *Percorsi integrati. Istologia*. Translation of Chapters 11-14 and of the Case Studies of “*ELSEVIER'S INTEGRATED HISTOLOGY*”, A.G. Telsler, J.K. Young, & K. M. Baldwin, Mosby Elsevier, Philadelphia, PA, USA (2007), Elsevier Masson S.r.l., Milano (2008). ISBN-13: 978-0-323-03388-6.
4. U. ARMATO, A. CHIARINI, **I. DAL PRÀ**. “Anatomia del cuore”. In: “*TRATTATO DI MEDICINA INTERNA*” [*ITALIAN TREATISE OF INTERNAL MEDICINE*] founded by P. Larizza, Volume VI (R. De Caterina, C. Dal Palù, G. Finardi, A. Venco eds.), Tomo I, pp. 45-62, Piccin Nuova Libreria S.p.A. Padova (2009). ISBN 978-88-299-1944-4.
5. U. ARMATO, **I. DAL PRÀ**, “*Sistema nervoso centrale e periferico*”, Ch. 19, “*EMBRIOLOGIA UMANA*” [*HUMAN EMBRYOLOGY*] Armato, Bani, Baroni, Bodo Lumare, Buscemi, Caramelli Ceccoli, Ciccarelli Priori,

- Cimini, DAL PRÀ, De Pol, Galdieri, Gerbino, Marotta, Narducci, Ricci, Romagnoli, Sica, Vannucchi, Zani (Eds.). Idelson-Gnocchi, Napoli, 2011. ISBN 978-88-7947-539-6.
6. U. ARMATO, A. CHIARINI, R. PACCHIANA, **I. DAL PRÀ** (Eds.). “*JUNQUEIRA’S BASIC HISTOLOGY*” 12th Ed. Istologia testo e atlante. 6^a Ediz. It. Piccin Nuova Libreria S.p.A. Padova, 2012. ISBN 978-88-299-2166-9.
 7. **I. DAL PRÀ**, et al. “*ISTOLOGIA PER LE PROFESSIONI SANITARIE*” [*HISTOLOGY FOR HEALTH PROFESSIONALS*] Idelson Gnocchi, Napoli, 2014. ISBN 978-88-7947-593-8.
 8. U. ARMATO, A. CHIARINI, **I. DAL PRÀ**, *Anatomia, istologia e citologia normali dell’apparato respiratorio*. In: “*TRATTATO ITALIANO DI MEDICINA DI LABORATORIO*” [*ITALIAN TREATISE OF LABORATORY MEDICINE*] vol. VIII/1, **Citopatologia diagnostica** [Diagnostic cytopathology], Ch. 21. 2^a Ed., P. Boccato (ed.). Piccin Padova. ISBN 88-299-1787-7.