

XXXIII Congress of the Italian Society of Histochemistry

XXXIII Congresso della Società Italiana di Istochimica

Rome, June 8-10th 2009 - Roma, 8-10 Giugno 2009

Scientific Program

Programma Scientifico

Congress venue - Sede del Congresso

*Dept. of Human Anatomy – Dip. di Anatomia Umana
Sapienza University of Rome - Sapienza Università di Roma*

Roma, Viale Regina Elena, 289/ Via A. Borelli, 50

Monday June 8th 2009 – Lunedì 8 giugno 2009

13:00-15:00 h Registration (Main Entrance Hall, First floor)

15:00-16:00 h **Assembly of the SII - Assemblée dei Soci** (Room “A”, First floor)

16:00-16:30 h **Opening Ceremony - Cerimonia di apertura**

16:30-17:00 h *Coffee break*

17:00-18:30 h Celebration of Prof. V. Erspamer's Centennial – Celebrazione del Centenario della Nascita del Prof. V. Erspamer

Chairmen: N.M. Maraldi (Bologna) - A. Lauria (Milan) - E. Gaudio (Rome)

17:00-17:10 h Vittorio Erspamer's path from comparative histochemistry to neuropharmacology. G. Corbellini and A. Pizzinga (Rome)

17:10-17:20 h Erspamer as “pupil”: Collegio Ghislieri. A. Belvedere (Pavia)

17:20-17:35 h Vittorio Erspamer and Pavia histochemistry. E. Solcia (Pavia)

17:35-17:50 h Serotonin: from discovery to treatment - a story of translational biomedical research. C.A. Marsden (Nottingham)

17:50-18:00 h Vittorio Erspamer, navigatore, esploratore e freeclimber della scienza. G. Di Chiara (Cagliari)

18:00-18:10 h Erspamer Linceo. L. Martini (Milan)

18:10-18:20 h From deltorphin to tachykinins: my laboratory experience with Prof. Vittorio Erspamer. C. Severini (Rome)

18:20-18:30 h Vittorio Erspamer: a Master, a friend. L. D'Este (Rome)

18:30-19:15 h Opening Lecture - Maffo Vialli Award Lecture

Of Frogs and Men: Following Vittorio Erspamer's and Tindaro Renda's footsteps. H. Vaudry, J. Leprince, M.-C. Tonon and J.M. Conlon (Rouen, Al-Ain)

19:15-19:45 h *Intermezzo musicale: MuSa Orchestra*

20:00 h *Welcome Cocktail - Cocktail di Benvenuto*

Tuesday June 9th 2009 – Martedì 9 giugno 2009

Session I

08:30-10:45 h Room “A” (First floor)

Symposium I: Recent Advances in Peptides and Neurotransmitters

Chairmen: L. D’Este (Rome) - A. Fasolo (Turin)

08:30-08:35 h Introductory remarks (Chairmen)

08:35-08:55 h Bombesin-like peptides in acute and chronic lung injury. M.E. Sunday, S. Zhou, E. Potts and W.M. Foster (Durham)

08:55-09:15 h Recent advances in cholinergic mechanism with special reference to the identification of choline acetyltransferase of the peripheral type (pChAT). H. Kimura (Otsu)

09:15-09:35 h Normal expression and biological functions of alpha-synuclein. S. Yu, G. Vivacqua, X. Li, G. Liu, J. Han, P. Wang, H. Yang, L. D’Este, K. Uida and P. Chan (Beijing, Rome, Tokyo)

09:35-09:55 h Role of alpha synuclein in neurodegeneration. F. Fornai, S. Ruggieri and A. Paparelli (Pisa, Isernia)

09:55-10:15 h The relevance of basic neuroscience in the search for new drugs and therapies involved in Parkinson's disease, memory functioning, and depression. H.W.M. Steinbusch (Maastricht)

10:15-10:35 h The amphibian model for the study of innate immunity. M. Simmaco, M.L. Mangoni, R. Miele, M. Borro and D. Barra (Rome)

10:35-10:45 h Concluding remarks (A. Fasolo, Turin)

10:45-11:00 h Coffee break

Tuesday June 9th 2009 – Martedì 9 giugno 2009

Session I

Room “A” (First floor)

11:00-12:30 h *Communications Symposium I*

Chairmen: C. Cavallotti - E. Bronzetti (Rome)

11:00-11:15 h Dopamine receptor subtypes expression and localization in the rat gastrointestinal tract microvasculature. F. Amenta, D. Accili, A. Cadoni, M.G. Gabrielli, A. Ricci, D. Tomassoni and D. Zaccheo (Camerino, Genoa, Rome)*

11:15-11:30 h GD3 ganglioside and NG2 proteoglycan expression in glioblastoma multiforme and peritumor tissue. G. Lama, C. Spanò, G. Proietti, A. Mangiola, C. Anile, L. Lauriola, G. Maira and G. Sica (Rome)*

11:30-11:45 h Augurin expression in rat tissues through Real Time-Polymerase Chain Reaction and immunohistochemistry. V. Macchi, A. Porzionato, M. Rucinski, A. Rambaldo, E. Vigato, A. Parenti, L.K. Malendowicz and R. De Caro (Padua)*

11:45-12:00 h Role of reactive gliosis and analysis of Nerve Growth Factor treatment in a neuropathic pain rat model. G. Cirillo, C. Cavaliere, M.R. Bianco, A. De Simone, A.M. Colangelo, D. De Luca, S. Sellitti, L. Alberghina and M. Papa (Naples, Milan)*

12:00-12:15 h Role of androgens in the differentiation of rodent arginine-vasopressin system. G.C. Panzica, F. Allieri, E. Bo and C. Viglietti-Panzica (Turin)*

12:15-12:30 h Modifications of the vasopressin and ANP in the rat hypothalamic supraoptic nucleus during and after the physical exercise. E. Farina Lipari, G. Peri, M. Bellafiore, A. Lipari, A. Valentino and B. Valentino (Palermo)*

** discussion included (10'+5')*

13:00-14:00 h Lunch

Tuesday June 9th 2009 – Martedì 9 giugno 2009

Session I

Rooms “M-SP” (Ground floor)

14:00-15:00 h Posters Session I

Chairmen: I. Faenza (Bologna) - S. Correr (Rome) - R. Vaccaro (Rome)

P-01 Expression of VAMP-2 and SNAP-25 immunoreactivity in gabaergic and glutamatergic axon terminals of the rat cerebellar cortex. L. Lorusso, V. Benagiano, P. Flace, A. Rizzi and G. Ambrosi (Bari)

P-02 Immunohistochemical and RT-PCR profile of neurotrophins in human normal dura mater and meningioma. M. Artico, E. Bronzetti, B. Ionta, P.P. Parnigotto, E. Pompili, R. Di Liddo, M.T. Conconi, L.M. Felici, F.S. Pastore and L. Fumagalli (Rome, Padua)

P-03 Immunohistochemical characterization of the distribution of glutamate receptors, “high affinity” membrane bound glutamate transporters and of Glutamate Carboxipeptidase II (GCP II) in *in vitro* cultures of embryonic dorsal root ganglia. V.A. Carozzi, C. Zoia, P. Marmiroli, C. Ferrarese, G. Cavaletti and G. Tredici (Milan)

P-04 Immunolocalization of Choline Acetyltransferase of common type (cChat) in the nervous system of *Octopus vulgaris*. A. Casini, L. D'Este, S. Kimura, J.P. Bellier, H. Kimura and T.G. Renda[†] (Rome, Otsu)

P-05 Increased cChat immunoreactivity in basal forebrain of heroin sensitized rats. A. Casini, G. Vivacqua, L. D'Este, F.E. Pontieri, H. Kimura and T.G. Renda[†] (Rome, Otsu)

P-06 Catecholaminergic and cholinergic nervous fibres in human lymphatic vessels. F. Mignini, M. Sabatini and C. Cavallotti (Camerino, Novara, Rome)

P-07 PACAP and VIP affects NF1 expression in schwannoma cells. S. Giunta, A. Castorina, C. Patti, M.L. Carnazza, V. Mazzone and V. D'Agata (Catania)

P-08 Protease-activated receptor 1 upregulation in rat microglia following trimethyltin treatment: an *in vivo* and *in vitro* study. C. Fabrizi, E. Pompili, S.L. Nori, B. Panetta, M.C. Geloso, V. Corvino, F. Michetti and L. Fumagalli (Rome, Salerno)

P-09 Autocrine action of GDNF in the Purkinje cells of adult zebrafish? B. Facello, C. Lucini, L. Maruccio, R. Antonucci and L. Castaldo (Naples)

P-10 GFR α 1 receptor in the brain of adult zebrafish. B. Facello, L. Castaldo, L. Maruccio and C. Lucini (Naples)

P-11 Preliminary data on the presence and distribution of immunoreactivity to peptides implicated in the control of food intake in the stomach and small intestine of marine mammals. F. Russo, N. Arcamone, V. Esposito, M. Giurisato, C. La Gatta, B. Facello, G. Gargiulo, P. de Girolamo and E. Varricchio (Benevento, Naples, Padua)

- P-12** Some peptides involved in food intake in the intestine and pancreas of buffalo: immunohistochemical study. F. Russo, P. de Girolamo, L. Maruccio, B. Facello, C. Lucini and E. Varricchio (Benevento, Naples)
- P-13** Immunocytochemical study on the endocannabinoid and Orexin-1 interactions in the hypothalamus. I. Ferrandino, R. Imperatore, R. Favorito, V. Di Marzo and L. Cristino (Naples, Pozzuoli)
- P-14** Effects of a chronic exposure to cadmium on the glial architecture in the lizard brain: an immunocytochemical study. R. Favorito, M.C. Grimaldi and I. Ferrandino (Naples)
- P-15** Differential immunohistochemical detection of S100 and GFAP in fish olfactory ensheathing cells. S. Bettini, M. Lazzari, F. Ciani and V. Franceschini (Bologna)
- P-16** Distribution of glial fibrillary acidic protein- and vimentin-immunopositive structures in the central nervous system of the leopard gecko, *Eublepharis macularius*. M. Lazzari, S. Bettini, F. Ciani and V. Franceschini (Bologna)
- P-17** Changes induced by an acute toxic dose (ATD) of methamphetamine (METH) on cannabinoid CB1 receptors: an immunocytochemistry study. W. Luesu, V. Bini, B. Tuveri, R. Loriga, M.P. Castelli and M.G. Ennas (Cagliari)
- P-18** Fine distribution of the epilepsy-related Lgi1 protein in rat cortical neurons. M. Malatesta, S. Furlan, R. Mariotti, C. Zancanaro and C. Nobile (Verona, Padua)
- P-19** Dopaminergic markers and dopamine receptor localization in rat thymus, spleen and peripheral blood lymphocytes. F. Mignini, D. Tomassoni, E. Baldoni, E. Traini and F. Amenta (Camerino)
- P-20** Immunohistochemical evidence that MPTP-induced parkinsonism affects dopaminergic neurons in mouse enteric nervous system. G. Natale, O. Kastsuchenka, M.G. Alessandri, A. Paparelli and F. Fornai (Pisa)
- P-21** Expression of Toll-like receptors 3, 4 and 7 in murine peripheral nervous system development. I. Barajon, E. Opizzi, F. Arnaboldi, A. Menon, E. Menegola, F. Di Renzo, M. Gioia (Milan)
- P-22** Spexin expression in rat tissues through Real Time-Polymerase Chain Reaction and immunohistochemistry. A. Porzionato, V. Macchi M. Rucinski, G. Sarasin, A. Parenti, L.K. Malendowicz and R. De Caro (Padua)
- P-23** Uptake and recycling of brain-derived neurotrophic factor by cortical astrocytes and hippocampal neurons. S. Santi, M. Bergami, C. Verderio, R. Blum, B. Berninger, M. Matteoli and M. Canossa (Bologna, Genoa, Milan, Munich)
- P-24** Immunocytochemical characterization of mesenchymal stem cells effect of DRG neurons apoptotic death. A. Scuteri, M. Ravasi, S. Pasini, E. Donzelli, G. Nicolini and G. Tredici (Monza)
- P-25** Immunohistochemistry of the sensory nerve endings located in the human skin. A. Tammaro and C. Cavallotti (Rome)
- P-26** Dopaminergic markers in the gut associated lymphoid tissue (GALT) of the rat. D. Tomassoni, D. Accili, M.G. Gabrielli, A. Ricci and F. Amenta (Camerino, Rome)

P-27 Immunolocalization of alpha-synuclein in the C57 BL/6J mouse central nervous system by two novel monoclonal antibodies: a preliminary study to investigate the alpha-synuclein pathology in the MPTP models of Parkinson's disease. G. Vivacqua, A. Casini, L. D'Este and S. Yu (Rome, Beijing)

P-28 Identification of Ankrd2/ARPP as an Akt substrate in C2C12 muscle cells. V. Cenni, A. Bavelloni, S. Marmiroli, L. Cocco and N.M. Maraldi (Bologna, Modena)

P-29 Catalytic activity of nuclear PLC-beta1 is required for its signalling function during C2C12 differentiation. I. Faenza, G. Ramazzotti, R. Fiume, M.Y. Follo, A.M. Billi, A.M. Martelli and L. Cocco (Bologna)

P-30 Fas and staurosporine effects in apoptosis linked to trogocytosis. F. Luchetti, B. Canonico, M. Arcangeletti, L. Biagiarelli, L. Bucci, M. Degli Esposti and S. Papa (Urbino, Manchester)

P-31 Expression of Nuclear Factor- κ B and its relationship with p53 and survivin in cutaneous melanoma. D. Murtas, F. Piras, L. Minerba, J. Ugalde, C. Floris, C. Maxia, P. Demurtas, M.T. Perra and P. Sirigu (Cagliari, Solca)

P-32 Major role of the NF- κ B/Toll like receptor pathway in the embryonic brain inflammatory responses induced by lipopolysaccharide. M.A. Panaro, T. Trotta, S. Lepore, V. Mitolo, A. Acquafredda, L. Cucci, P. Cavallo and A. Cianciulli (Bari, Foggia)

P-33 Serotonin and neurotensin cells in atresic chick embryo intestine: immunohistochemical study. R. Vaccaro, E. Parisi Salvi, I. Nofroni, L. D'Este, S.M. Baglaj and T. Renda[†] (Rome, Wroclaw)

A single slide can be used for a 1' discussion

Tuesday June 9th 2009 – Martedì 9 giugno 2009

Session II

15:00-17:10 h Room “A” (First floor)

Symposium II- Signal Transduction Within Nuclear Domains

Chairmen: F.A. Manzoli - G. Mazzotti (Bologna)

15:00-15:35 h Nuclear phospholipase C and signal transduction. L. Cocco, G. Mazzotti, S. Capitani and F.A. Manzoli (Bologna, Ferrara)

15:35-16:05 h Nuclear phosphoinositides. D. Jones, Y. Bultsma, W.J. Keune, A. Lewis, C.D. Santos, M.C. Motta and N. Divecha (Manchester, Bergen)

16:05-16:35 h Nuclear architecture studied by microscopy: where the field stands and where to move next. T. Cremer (Planegg-Martinsried)

16:35-17:05 h Role of prelamin A in the pathogenesis of laminopathies. N.M. Maraldi and G. Lattanzi (Bologna)

17:05-17:10 h Concluding remarks

17:10-17:30 h Coffee break

Tuesday June 9th 2009 – Martedì 9 giugno 2009

Session II

Room “A” (First floor)

17:30-19:00 h *Communications Symposium II*

Chairmen: L. Fumagalli - E. Ziparo (Rome)

17:30-17:45 h* Inner nuclear membrane protein emerin and the protein precursor of lamin A, are able to interact and to influence each other's localization in human fibroblasts. C. Capanni, R. Del Coco, E. Mattioli, D. Camozzi, M. Columbaro, E. Schena, L. Merlini, S. Squarzoni, N.M. Maraldi and G. Lattanzi (Bologna, Ferrara)

17:45-18:00 h* Nuclear PLC beta 1 signaling: eEF1A2 is a novel phospho-substrate of PKC beta 1 in myoblasts differentiation. M. Piazzzi, A. Bavelloni, L. Manzoli, S. Mongiorgi, N.M. Maraldi, L. Cocco and I. Faenza (Bologna)

18:00-18:15 h* Involvement of nuclear PLCbeta1 in lamin B1 phosphorylation and G2/M cell cycle progression. R. Fiume, V. Papa, G. Ramazzotti, P. Santi, A. Matteucci, F. Chiarini, G. Teti and L. Manzoli (Bologna)

18:15-18:30 h* Identification of a novel nuclear Akt substrate: Matrin 3. M. Guida, J. Bertacchini, F. Beretti, A. de Pol and S. Marmioli (Modena)

18:30-18:45 h* Interplay of prelamin A forms accumulated in mandibuloacral dysplasia with nuclear envelope partners directs chromatin reorganization. E. Mattioli, E. Schena, V. Cenni, M. Columbaro, D. Camozzi, C. Capanni, S. Squarzoni, T. Greggi, M.R. D'Apice, G. Novelli, N.M. Maraldi and G. Lattanzi (Bologna, Rome)

18:45-19:00 h* Transcriptional modulation of the myelopoiesis-regulator microRNA-223 during hematopoietic cell lineage specification. L. Vian, F. Fazi, L.M. Starnes, S. Racanicchi, M. Di Carlo, T. Mangiacrapa, A. Ciolfi, G. Zardo, I. Iosue, C. Rofani, F. Grignani and C. Nervi (Rome, Perugia)

** discussion included (10'+5')*

21:00 h *Gala Dinner - Cena Sociale*

Wednesday June 10th 2009 - Mercoledì 10 giugno 2009

Session III

09:00-10:30 h Room "A" (First floor)

Symposium III: Tissue Development, Renewal and Regeneration

Chairmen: M. Molinaro - A. Musarò (Rome)

09:00-09:25 h Vessel associated progenitors and their myogenic fate. G. Cossu, A. Dellavalle, O. Cappellari, G. Ugarte and G. Messina (Milan, Rome)

09:25-09:50 h PW1 interstitial cells (PICs): a non-satellite cell source of myogenic progenitors. D.A. Sassoon, A. Pannérec, K.J. Mitchell, N. Didier, V. Besson, A. Parlakian, A. Ludovic and G. Marazzi (Paris)

09:50-10:15 h Growth factor enhancement of muscle regeneration. N. Rosenthal (Rome)

10:15-10:30 h *Discussion and concluding remarks*

10:30-10:45 h *Coffee break*

10:45-12:00 h *Communications Symposium III*

Chairmen: M. Stefanini - G. Familiari (Rome)

10:45-10:55* h Transcription factor NFI-A directs the fate of hematopoietic progenitors to the erythroid or granulocytic lineage. L.M. Starnes, A. Sorrentino, E. Pelosi, M. Ballarino, O. Morsilli, M. Biffoni, G. Mastroberardino, M. Gabbianelli, A. Fatica, I. Bozzoni, C. Nervi and C. Peschle (Rome)

10:55-11:05* h Sphingolipid pathway as potential therapeutical target in muscle atrophy. A. Zufferli, J. De La Richaudy, G. Nemoz, L. Monaco, E. Vivarelli, A. Di Grazia, F. Serra and F. Naro (Rome, Oullins)

11:05-11:15* h Histochemical analysis of damage and regeneration in skeletal muscle wasting. D. Coletti, E. Berardi, P. Aulino, V.M. Cardillo, A. Toschi, A. Severi, B.M. Scicchitano, M. Molinaro and S. Adamo (Rome)

11:15-11:25* h "In vitro" engineering of human cryopreserved valve leaflets by replacing original cells with human mesenchymal stem cells. A. Bonetti, L. Iop, V. Renier, F. Naso, M. Piccoli, A. Gandaglia, M. Pozzobon, P. De Coppi, G. Gerosa, M. Spina, F. Ortolani and M. Marchini (Udine, Padua)

11:25-11:35* h Magic Factor-1: a new engineered protein involved in muscular hypertrophy and regeneration. F. Ronzoni, M. Bongio, S. Conte, D. Galli, M. Cassano, G. Cusella De Angelis and M. Sampaolesi (Pavia, Leuven)

11:35-11:45* h Protein kinase C theta is required for cardiomyocytes survival and cardiac remodelling. R. Paoletti, A. Notte, A. Maffei, E. Stanganello, G. Cifelli, G. Selvetella M. Molinaro, G. Lembo and M. Bouché (Rome, Isernia)

11:45-11:50 h *Concluding remarks*

* *discussion included (8'+2')*

12:00-13:00 h Assembly of the SII - Assemblée dei Soci

13:00-14:00 h *Lunch*

Wednesday June 10th 2009 - Mercoledì 10 giugno 2009

Session III

Rooms “M-SP”

14:00-15:00 h Posters Session II

Chairmen: S. Adamo - E. Parisi - A. Musarò - R. Heyn (Rome)

P-34 Role of Insulin-like Growth Factor 1 axis in the modulation of hepatic progenitor cells compartment in normal liver and during primary biliary cirrhosis. G. Carpino, A. Franchitto, R. Mancinelli, C.L. Mammola, M. Ripani, D. Alvaro and E. Gaudio (Rome)

P-35 A biochemical and molecular study of stem cell adhesion and differentiation on positively charged surfaces. D. Galli, L. Benedetti, M. Bongio, V. Maliardi, G. Silvani, G. Ceccarelli, F. Benazzo, G. Papaccio, A. Graziano, M. Sampaolesi, G. Magenes and M.G. Cusella De Angelis (Pavia, Naples, Leuven)

P-36 TRAIL promotes migration of human bone marrow multipotent stromal cells. F. Corallini, E. Melloni, P. Secchiero and S. Capitani (Ferrara)

P-37 Osteogenic differentiation of dental pulp stem cells (DPSC) in 3D-matrices to use in regenerative medicine. E. Resca, M. Riccio, L. Bertoni, T. Maraldi, C. Palumbo and A. De Pol (Modena)

P-38 3D model of human preadipocyte culture based on self-assembling peptide nanofiber. R. Di Liddo, M.T. Conconi, P. Paganin, R. Marmo, M. Artico, E. Bronzetti, B. Ionta and P.P. Parnigotto (Padua, Rome)

P-39 Different growth factors in vitro effect on mesenchymal stem cells and on cells from nonunion sites. M. Mattioli Belmonte, S. Manzotti, G. Lucarini, M. Orciani, R. Di Primio and A. Gigante (Ancona)

P-40 Immunomagnetic separation and biological characterization of a putative mesenchymal stem cells subpopulation. F. Riva, C. Omes, G. Mazzini, A. Icaro Cornaglia, M. Casasco, A. Casasco, C. Tinelli, F. Polatti and A. Calligaro (Pavia)

P-41 Lipopolysaccharide-induced airway inflammation: behavior of adhesion molecules expression in murine hematopoietic stem and progenitor cells. T. Trotta, S. Di Gioia., D. Piro, C. Porro, S. Lepore, S. Cantatore, M. Conese and A.B. Maffione (Foggia)

P-42 Extended characterization of human umbilical cord matrix mesenchymal stem cells: expression of novel markers, immunoregulatory molecules, and differentiating potency. G. La Rocca, R. Anzalone, S. Corrao, F. Magno, T. Loria, M. Lo Iacono, G. Zummo and F. Farina (Palermo)

P-43 Morpho-functional interrelations between hypophysis, bursa and thymus on embryonic thymic development: a comparative evaluation. M. Aita and N. Romano (Rome, Viterbo)

- P-44** Testis atrophy and reduced sperm motility in transgenic mice overexpressing c-FLIP. F. Antonangeli, S. Petrungaro, P. Coluccia, A. Filippini, C. Giampietri and E. Ziparo (Rome)
- P-45** Localization and interaction of MATER protein in human oocytes and cumulus cells. T. Maraldi, M. Riccio, P. Sena, L. Marzona, A. Nicoli, S. Marmiroli, J. Bertacchini, G.B. La Sala and A. De Pol (Modena, Reggio Emilia)
- P-46** Role of eNOS in acquisition of oocyte developmental competence in low antral follicle count bovine ovaries. I. Tessaro, F. Franciosi, V. Lodde, D. Corbani, A.M. Luciano, A. Lauria and S. Modina (Milan)
- P-47** Isolation, storage and grafting of ovarian tissue for fertility preservation: A morphological study in humans. S.A. Nottola, A. Camboni, G. Macchiarelli, A. Van Langendonck, D. Demylle, M.M. Dolmans, B. Martinez-Madrid, S. Correr and J. Donnez (Rome, Brussels, L'Aquila)
- P-48** Immunohistochemical and nucleotide sequencing analysis of Sarcoglycans in epithelium. G. Anastasi, D. Di Mauro, D. Milardi, M. Runci, C. Rinaldi and A. Amato (Messina)
- P-49** MicroRNAs' role in Duchenne muscular dystrophy. V. De Arcangelis, L. Monaco, F. Serra, L. De Angelis and F. Naro (Rome)
- P-50** Ribonuclear inclusions as biomarker of DM2 even in improperly frozen or defrost skeletal muscle biopsies. R. Cardani, E. Mancinelli, M. Giagnacovo, V. Sansone, G. Dragoni and G. Meola (Milan)
- P-51** Age-related effects on apoptosis of human satellite cells. S. Sancilio, C. Puglielli, M. Caprara, S. Fulle and R. Di Pietro (Chieti-Pescara)
- P-52** Role of PKC alpha skeletal muscle regeneration. L. Madaro, P. Smeriglio, M. Molinaro and M. Bouchè (Rome)
- P-53** Effect of ageing on morpho-functional features of skeletal muscle cell nuclei. M. Malatesta, F. Perdoni, C. Pellicciari and C. Zancanaro (Verona, Pavia)
- P-54** Immunocytochemical characterisation of MBNL1-containing foci in myoblast nuclei from patients affected by myotonic dystrophy type 2. F. Perdoni, M. Malatesta, R. Cardani, E. Mancinelli, C. Pellicciari and G. Meola (Pavia, Verona, Milan)
- P-55** Role of interleukin-6 (IL-6) in Duchenne muscular dystrophy (DMD). L. Pelosi, M.G. Berardinelli, E. Rizzuto, C. Nicoletti, F. Carvello, F. De Benedetti and A. Musarò (Rome)
- P-56** Non steroidal anti-inflammatory therapy in Duchenne muscular dystrophy. F. Serra, A. Trotta, L. Monaco, M. Canato, M. Quarta, C. Reggiani and F. Naro (Rome, Padua)
- P-57** Vinculin-talin-integrin system in smooth muscle affected by ureteropelvic junction obstruction: an immunohistochemical analysis. F. Trimarchi, A. Favalaro, G. Vaccarino, G. Santoro, G. Rizzo and L. Magaouda (Messina)
- P-58** "In vivo" cell repopulation and differentiation in decellularized and allogeneically transplanted aortic valves. A. Bonetti, A. Gandaglia, F. Naso, M. Spina, I. Iacopetti, L. Bellini, R. Busetto, S. Tramarin, R. Bianco, G. Gerosa, M. Marchini and F. Ortolani (Udine, Padua)
- P-59** i-NOS activated mitochondrial apoptotic pathway in hypoxic and aged rat hearts. S. Zara, M. Rapino, L. Centurione, V. di Giacomo and A. Cataldi (Chieti-Pescara)

- P-60** Cationic liposomes as a tool to label activated endothelial cells in vivo during acute central nervous system inflammation. G. Cavaletti, V. Rodriguez-Menendez, H. Haas, P. Riccio and G. Tredici (Monza, Martinsried/Planegg, Potenza)
- P-61** Identification of Vav1 tyrosine residues involved in ATRA-induced differentiation of APL-derived cells. S. Grassilli, F. Brugnoli, E. Nika, S. Capitani and V. Bertagnolo (Ferrara)
- P-62** Expression of Super Oxyde Dismutase (SOD) and apoptosis in heart failure. D. Calabrese, V. Mele, A. Arcucci, G. Guerra, V. Romano, S. Piscuoglio, L. Terracciano and S. Montagnani (Naples, Basel)
- P-63** Human epicardial cells: in vivo and in vitro morphological study of their fate in the normal and pathological heart. S. Montagnani, D. Nurzynska, F. Di Meglio, C. Castaldo, V. Romano, R. Miraglia, N. Amatruda, C. Bancone and M. Cotrufo (Naples)
- P-64** Ultrastructural immunolocalization of transferrin receptor in circulating erythroid cells: its role as biomarker for X ray damage in Elasmobranchs. F. Basile, A. Occhiello, C.A. Glomski and A. Pica (Naples, Buffalo)
- P-65** Co-localization of Runx2 and DKK1 in relation to medial artery calcification of uremic patients. S. Pisanò, G. Silvestrini, P. Ballanti, D. Mantella, P. De Paolis, M. Iappelli, S. Di Giulio, A. Favarò, E. Bonucci and G. Coen (Rome)
- P-66** Immunological characterization of chronic carotid glomitis in heroin addiction. A. Porzionato, V. Macchi, A. Parenti and R. De Caro (Padua)
- P-67** Morphofunctional analysis of the spleen from patients with or without PMF. M. Zingariello, D. Bosco, B. Ghinassi, L. Sancillo, A.R. Migliaccio, A. Antonucci and R.A. Rana (Chieti-Pescara, New York)
- P-68** Ultrastructural and immunohistochemical study of advanced atherosclerotic lesions in human carotid wall. M. Relucenti, R. Heyn, S. Ursu, L. Petruzzello, G. Franchitto, G. Familiari, S. Menini, C. Iacobini, M. Taurino and G. Pugliese (Rome)
- P-69** Immunohistochemical expression and apoptotic role of caspase 9 in aortic aneurysms. G.F. Spatola, G. Bonaventura, A. Leone, A. Mauro, E. Navarra, C. Pisano and M.L. Uzzo (Palermo)
- P-70** Vasomegaly: Role of CGRP-like nervous fibres. F.M. Tranquilli Leali, M. Cameroni and C. Cavallotti (Rome)
- P-71** Microvessel remodelling and endothelial phenotype regulation in the embryonic brain. D. Virgintino, M. Errede, F. Girolamo, M. Rizzi and L. Roncali (Bari)
- P-72** Hydrogen sulfide induces functional inhibition and cell death of cytotoxic lymphocytes subsets. P. Mirandola, G. Gobbi, F. Ricci, C. Carubbi, V. Queirolo and M. Vitale (Parma)
- P-73** Identification of a NCRs+/NKG2D+/LFA-1low/CD94-/CD159a- immature human NK cell subset. L. Zamai, G. Del Zotto, G. Cugia and S. Papa (Urbino)
- P-74** Identification of c-Kit+/CD105+ and Isl-1+ cells in human fetal and infant hearts. V. Di Felice, P. Catanese, C. Serradifalco, V. Barresi, M. Grosso, F. Cappello and G. Zummo (Palermo, Messina)
- P-75** Effects of bisphosphonates in human oral mucosa and in human mandibular bone: immunohistochemical and morphological analysis. G. Cutroneo, D. Bruschetta, A. Duca, G. Speranza, E. Magaudda and F. De Ponte (Messina)

- P-76** Expression of β -endorphin and caspase-9 in orthodontically treated dental pulp. A. Leone, A. Mauro, L. Lipari, F. Carini, A. Gerbino and M. Buscemi (Palermo)
- P-77** Use of riboflavin-UVA to increase dentin collagen stiffness and to improve dentin-resin bond. F. Nato, A. Cova, A. Mazzoni, A. Ruggeri Jr, L. Breschi and G. Mazzotti (Bologna, Trieste)
- P-78** Nicotine modulates Gelatinase B (MMP-9) and Epilysin (MMP-28) expression in reconstituted human oral epithelium. F. Renò, V. Rochetti, M. Sabbatini, M. Migliario and M. Cannas (Novara)
- P-79** Effects of low pulse energy Nd:YAG laser irradiation on cells of the oral microenvironment: an in vitro study. C. Sassoli, M. Giannelli, M. Margheri, F. Chellini, A. Tani, P. Tonelli, L. Formigli and S. Zecchi-Orlandini (Florence)
- P-80** Survivin and p53 expression in patients with Crohn's disease: an immunohistochemical study. M.T. Perra, C. Maxia, P. Demurtas, D. Murtas, F. Piras and L. Marongiu (Cagliari)
- P-81** The O₂-scavenging flavodiiron protein is detectable in *Giardia intestinalis*. D. Mastronicola, F. Testa, E. Forte, M. Arese, A. Mura, P.L. Fiori, S. Raffa, E. Bordi, L.P. Pucillo, A. Giuffrè, M.R. Torrisi and P. Sarti (Rome, Sassari)
- P-82** Role of Smad 3 loss in resistance to the development of experimental colorectal fibrosis induced by trinitrobenzene sulphonic acid. R. Sferra, A. Vetusch, G. Latella, G. Zanninelli, A. D'Angelo, V. Catitti, R. Caprilli, K.C. Flanders and E. Gaudio (L'Aquila, Rome, Bethesda)
- P-83** Different diets modulate the glycosylation pattern in the rat colonic mucosa. M.G. Gabrielli, A. Cresci, D. Tomassoni and D. Accili (Camerino)
- P-84** Immunohistochemical study on the response of the surrounding liver to colorectal carcinoma liver metastasis. S. Carotti, G. Perrone, C. Rabitti, L. Pannarale, A. Onetti Muda and S. Morini (Rome)
- P-85** Taurocholate prevents caffeic acid-induced bile duct damage in bile duct-ligated rats by changes in cholangiocyte VEGF expression. A. Franchitto, R. Mancinelli, P. Onori, G. Carpino, D. Alvaro, L. Pannarale, S. Demorrow, H. Francis, G. Alpini and E. Gaudio (Rome, Texas, L'Aquila)
- P-86** Role of Follicle Stimulating Hormone in the regulation of cholangiocyte proliferation of normal and bile duct ligated rats. P. Onori, R. Mancinelli, G. Carpino, A. Franchitto, L. Pannarale, S. DeMorrow, H. Francis, S. Glaser, D. Alvaro, G. Alpini and E. Gaudio (Rome, Texas, L'Aquila)
- P-87** Expression of P2X1 and P2X3 purinergic receptors in bovine cartilage. A. Caruso, A. Pellati, P.A. Borea, K. Varani, F. Vincenzi, F.F. Masieri, A. Ongaro and M. De Mattei (Ferrara)
- P-88** Osteogenic and chondrogenic differentiation of mesenchymal stromal cells on poly(vinyl alcohol)/gelatin spongy scaffolds. D. D'Alessandro, S. Moscato, S. Danti, L.P. Serino, M. Petri and A. Dolfi (Pisa)
- P-89** Immunohistochemical evidence of lactoferrin in human adult normal and neoplastic cartilage. A. Ieni, V. Barresi, M. Grosso, A. Simone and G. Tuccari (Messina)
- P-90** Immunohistochemical appearance of lactoferrin in the bone growth and development of embryonic and foetal skeleton. A. Ieni, V. Barresi, M. Grosso, R. Scarfi and G. Tuccari (Messina)

- P-91** The overlapping between TRAIL and OPG could contribute to an enhancement of the erosive processes induced by human synovial cells. V. Nicolin, R. Bareggi and P. Narducci (Trieste)
- P-92** Expression of growth factors and proteins modulating bone formation in human osteoblasts seeded on anorganic bovine bone biomaterial. O. Trubiani, M. Paludi, T. Traini, S. Caputi and A. Piattelli (Chieti)
- P-93** Characterization and localization of wolframin, a transmembrane glycoprotein, in human tissues and organs. G. Coppola, L. Cobellis, L. Manente, A. Lucariello, I. Cavallotti, M. De Falco, V. Laforgia, N. Colacurci and A. De Luca (Naples)
- P-94** An alternative fixation. P. Balzarini, L. Benerini Gatta, M. Cadei, P. Begni, J. Demello Ferreira and P.G. Grigolato (Brescia)
- P-95** The double labelling technique for combined histochemistry and immunohistochemistry analysis. L. Benerini Gatta, P. Balzarini, M. Cadei, F. Alpi, A. Cattane and P.G. Grigolato (Brescia)
- P-96** Subcellular localization of statherin in human male urogenital tract. M. Isola, M. Cossu, D. Massa, A. Casti and M.S. Lantini (Cagliari)
- P-97** Cytokeratins identification in human umbilical cord at term. A. Mauro, A. Leone, L. Lipari, S. Provenzano, M. Buscemi and A. Gerbino (Palermo)
- P-98** Application of a modified staining method for epoxy-embedded semithin sections on human pathological tissues. R. Heyn, M. Relucenti, L. Petruzziello, E. Battaglione, S. Ursu and G. Familiari (Rome)
- P-99** Different dynamics of neuronal cells adhesion on different substrates. M. Sabbatini, F. Boccafoschi and M. Cannas (Novara)
- P-100** Egg-jelly structure, ultrastructure and lectin-binding sites in the Apennine yellow-bellied toad, *Bombina pachypus* (Anura: Bombinatoridae). G. Scillitani, M. Mastrodonato, A.M. Moramarco and R. Rossi (Bari)
- P-101** Expression of remodelling enzymes MMPs in hernia formation. L. Lipari, M. Frazzetta, M.L. Uzzo, A. Mauro, G.F. Spatola, M. Buscemi and A. Gerbino (Palermo)
- P-102** A possible approach to the early diagnosis of Alzheimer's disease by flow cytometric analysis of T lymphocytes. P. Lanuti, F. Ciccocioppo, L. Pierdomenico, A. Bascelli, A. Di Fonso, L. Bonanni, E. Santavenere, L. Centurione, G. Grifone, M.A. Centurione, G. Impicciatore, F. Kern, M. Marchisio and S. Miscia (Chieti-Pescara, Brighton)
- P-103** TGF- β /SMAD signaling pathway as tissue remodeling mechanism in immunoallergical pathologies that leads to fibrosis. P. Brun, L. Motterle, A. Di Stefano, B. Zavan, G. Abatangelo and A. Leonardi (Padua, Veruno)
- P-104** The paracrine loops of keratinocyte stimulation in cholesteatoma tissue shown by quantitative immunofluorescence and molecular analysis combined with transmission electron microscopy. F. d'Alessandro, S. Raffa, C. Murè, M. Barbara and M.R. Torrisi (Rome)
- P-105** Use of PGP 9.5 to reveal small fibers neuropathy: preliminary results. G. Fenu, M.A. Sotgiu, A. Carai and A. Montella (Sassari)
- P-106** Skin iron deposition characterizes lipodermatosclerosis and ulcer. C. Rosi, A. Casini and A. Caggiati (Rome)

- P-107** Role of the light exposure on the cytotoxicity of Guaiiazulene on human fibroblasts: photoprotection effects. G. Teti, J. Fiori, M. Zago, R. Gotti, M. Falconi and G. Mazzotti (Bologna)
- P-108** Pathogenic autoantibodies modulate extra-cellular matrix protein expression. S. Lisi, M. D'Amore, C.I. Mitolo, P. Scagliusi, T. Trotta, M.E. Caringella, L. Cucci and M. Sisto (Bari, Foggia)
- P-109** Opsin expression in the zebrafish pineal gland from larval to adult stage. R. Zichichi, M.C. Guerrero, V. Amato, E. Carollo, D. Magnoli, R. Laurà and E. Ciriaco (Messina)
- P-110** Immunolocalization of ANP and insulin in pancreas of human foetuses from diabetic mothers. B. Valentino, G. Peri, D. Lipari, A. Valentino, E. Farina Lipari (Palermo)
- P-111** Melatonin prevents H₂O₂-induced cell death. S. Salucci, S. Burattini, P. Gobbi, M. Battistelli and E. Falcieri (Urbino, Bologna)
- P-112** In vivo study of nonylphenol effects on hypothalamus-pituitary-adrenal gland axis of the bioindicator organism *Podarcis sicula* lizard. A. Sellitti, M. De Falco, R. Sciarrillo, S. Valiante, A. De Luca, A. Capaldo and V. Laforgia (Naples, Benevento)
- P-113** The effects of some endocrine disruptors on the skin of the adult newt, *Triturus carnifex* (Amphibia, Urodela). A. Capaldo, A. Sellitti, F. Gay, M. De Falco, S. Valiante, R. Sciarrillo and V. Laforgia (Naples, Benevento)
- P-114** Effect of chronic treatment with CB1 receptor antagonist (Rimonabant) on B-cells apoptosis in the pancreas of obese Zucker rats. An immunohistochemical study. V. Tessitore, G. Bonaventura, D. Cucco, G.F. Spatola and M.L. Uzzo (Palermo)
- P-115** Fluorescent in situ hybridization study to predict cetuximab response in metastatic colorectal cancer. S. Castorina, G. Privitera and T. Luca (Catania)
- P-116** Decrease of apoptosis in putative premalignant human colonic lesions compared to normal colonic mucosa. P. Sena, L. Marzona, L. Roncucci, F. Mariani and A. De Pol (Modena)
- P-117** D2-40 monoclonal antibody is a selective marker of lymphatic endothelium and cancer progression. G. Lucarini, A. Zizzi, A. Filosa, E. Salvolini, R. Di Primio and D. Minardi (Ancona)
- P-118** Death and survival of C6 glioma cells in culture after Cisplatin treatment. G. Santin, D. Krajci, M.G. Bottone, V. Lisa, V. Mares and C. Pellicciari (Pavia, Olomouc, Kuwait, Prague, Labem)
- P-119** Prognostic value of survivin protein expression in T4 breast cancer patients. M.T. Perra, C. Maxia, P. Demurtas, D. Murtas, F. Piras, L. Minerba, V. Pusceddu, M. Murgia, B. Frau, M.T. Ionta, B. Massidda and P. Sirigu (Cagliari)
- P-120** Biological effects of natural and synthetic mineral fibres and thermally transformed asbestos waste. In vitro assessment on cellular systems. A. Pugnali, F. Giantomassi, A. Bloise, S. Capella, E. Belluso and A. Gualtieri (Ancona, Cosenza, Turin, Modena)
- P-121** LY294002, inhibitor of PI3K, regulates superficial expression of NGF receptors in human cancer cell lines. A. Pistilli, A.M. Stabile, A. Spreca, M.T. Chiarelli, C. Montagnoli and M. Rende (Perugia)

P-122 A novel localization of low affinity Nerve Growth Factor receptor (p75) in normal and neoplastic human prostate. An immunohistochemical and immunocytochemical study. M.G. Rambotti, A.M. Stabile, A. Pistilli, M.T. Chiarelli, E. Mearini, C. Montagnoli and M. Rende (Perugia)

P-123 Morphological and immunohistochemical characterization of U87 glioblastoma xenografts in nude mice. O. Zarnescu, F.M. Brehar and M. Chivu (Bucharest)

P-124 Hsp60 is released from tumor cells by various pathways. F. Cappello, A.M. Merendino, F. Bucchieri, S. David, C. Campanella, G. Burgio, D. Corona, E. Conway de Macario, A.J.L. Macario and G. Zummo (Palermo, Baltimore)

P-125 Distribution and modulation of NEDD8 protein in human placenta throughout pregnancy. A. Lucariello, L. Manente, A. Perna, G. Coppola, I. Cavallotti, R. Tedesco, V. Laforgia, M. De Falco and A. De Luca (Naples)

A single slide can be used for a 1' discussion

Wednesday June 10th 2009 - Mercoledì 10 giugno 2009

Session IV

15:00-17:30 h Room "A" (First floor)

15:00-16:30 h Symposium IV: Immunohistochemistry in Pathology - From theory to practice

Chairmen: E. Bonucci (Rome) - A. Lauria (Milan)

15:00-15:25 h Diagnostic reliability of immunohistochemistry. Role of technical factors. G. Bussolati (Turin)

15:25-15:50 h A novel tooth-specific protein identified by secretome analysis is highly-upregulated in neoplasms of epithelial origin. A. Nanci (Montréal, Québec)

15:50-16:15 h Morphological and molecular assessment of apoptotic mechanisms in peripheral neuroblastic tumors. S. Uccini, S. Scarpino, P.G. Natali, G. Kokai, H. McDowell and C. Dominici (Rome, Liverpool)

16:15-16:30 h Discussion and concluding remarks

16:30-17:30 h Communications Symposium IV

Chairmen: A. Paparelli (Pisa) - G. Meola (Milan)

16:30-16:45* h A multiple technical approach to human articular chondrocyte cell death. M. Battistelli, S. Salucci, C. Squillace, E. Olivotto, S. Pagani, R. Borzì, A. Facchini and E. Falcieri (Urbino, Bologna)

16:45-17:00* h Immunohistochemical identification of cellular subpopulations and cytokines involved in inflammatory processes underlying carotid atherosclerosis. R. Businaro, A. Tagliani, B. Buttari, E. Profumo, R. Riganò and L. Fumagalli (Rome)

17:00-17:15* h Neuromuscular expression of cyclo-oxygenases in ulcerative colitis. C. Ippolito, C. Segnani, L. Mattii, R. Colucci, C. Blandizzi, A. Dolfi and N. Bernardini (Pisa)

17:15-17:30* h Altered SREBP-1 localization in laminopathic fibroblasts with prelamin A accumulation. R. Del Coco, C. Capanni, D. Camozzi, V. Cenni, N.M. Maraldi and G. Lattanzi (Bologna)

17:30 h *Concluding remarks*

* *discussion included (10'+5')*

18:00 h *Farewell Buffet - Buffet di Arrivederci*