



SISC



UNIVERSITÀ DEGLI STUDI DI PAVIA
DIPARTIMENTO DI BIOCHIMICA "A. Castellani"

XXV Riunione
Società Italiana per lo Studio del Connettivo

22 – 23 settembre 2005
Pavia – Dipartimento di Biochimica "A. Castellani"
(via Taramelli 3b e via Bassi 21)

Programma scientifico
preliminare

Giovedì 22 settembre – via Taramelli 3b

Ore 14.00 *Registrazione*

Ore 15.00 **APERTURA DEI LAVORI**

Ore 15.15 I Sessione

Moderatori: G. De Luca, G. Cetta

Ore 15.15 ***Letture in onore di Alessandro A. Castellani***

Human sialidases: molecular biology, biochemistry and physiopathological implications.

Guido Tettamanti. Milano

Ore 15.50 **New insight on the pathogenesis of clinical manifestations in *Pseudoxanthoma Elasticum*.**

I. Pasquali-Ronchetti, MI. Garcia-Fernandez², F. Boraldi, D. Quaglino, D. Gheduzzi, C. Paolinelli DeVincenzi, R. Tiozzo¹, S. Bergamini, D. Ceccarelli, U. Muscatello. Modena e Malaga (Spagna)

Ore 16.05 **On the pathogenesis of PXE-like clinical manifestations in β -thalassemia patients.**

F. Boraldi, C. Paolinelli DeVincenzi, MI. Garcia-Fernandez, D. Quaglino, R. Tiozzo, MA. Croce, P. Cianciulli, F. Sorrentino, GL. Forni, I. Pasquali Ronchetti. Modena, Roma e Genova

Ore 16.20 **Hyperforin inhibits PMN migration, inflammation-triggered angiogenesis and pulmonary fibrosis.**

I. Dell'Aica, F. Piazza, L. Sartor, C. Colalto, E. Brunetta, G. LoRusso, R. Benelli, A. Albini, F. Calabrese, C. Agostini, S. Garbisa. Padova e Genova

Ore 16.35 **Angioprevention: angiogenesis in a chemopreventive setting.**

U. Pfeffer, N. Ferrari, R. Venè, G. Fassina, R. Benelli, D.M. Noonan, A. Albini. Genova e Varese

Ore 16.50 *coffee break*

Ore 17.20 **Human recombinant prolidase: synthesis, purification and characterization.**

A. Lupi, S. Della Torre, F. Curtoni, R. Tenni, G. Cetta, A. Rossi, A. Forlino. Pavia

Ore 17.35 **Ectopic decorin induces proteomic and cytoskeleton modulation of breast cancer cells.**

I. Pucci Minafra, G. Di Cara, L. Minafra, L. Santoro, S. Caricato, P. Cancemi, S. Feo, S. Minafra. Palermo

Ore 17.50 **Cross-talk between breast cancer cells and fibroblasts in coculture system.**

P. Cancemi, M.R. Marabeti, N. Albanese, S. Caricato, S. Minafra, I. Pucci-Minafra. Palermo

Ore 20.00 *cena sociale*

- Ore 8.30 *Registrazione*
- Ore 8.45 II sessione
Moderatori: I. Pucci Minafra, C. Balduini
- Ore 8.45 ***Lettura in onore di Lorenzo Gotte***
The supramolecular organization of elastin in the elastic fiber scaffold of heart valves.
Michele Spina, F. Naso, M. Marchini, F. Ortolani, A. Gandaglia. Padova e Udine
- Ore 9.20 **Molecular effects of glucosamine and its derivative on cartilage homeostasis.**
A. Scotto d'Abusco, C. Cicione, R. Negri, O. Moreschini, B. Grigolo, L. Politi, R. Scandurra. Roma e Bologna
- Ore 9.35 **The effect of glycosaminoglycan and proteoglycan addition to murine chondrocytes in cultures on gene expression of matrix metalloproteinases (MMPs) and their tissue inhibitors (TIMPs).**
S. Campo, A. D'Ascola, G.M. Campo, A. Avenoso, A.M. Ferlazzo, A. Lania, A. Calatroni. Messina
- Ore 9.50 **Calcification in human stenotic aortic valves: involvement of acidic lipids and annexin-V.**
A. Bonetti, U. Livi, V. Tursi, M. Contin, M. Marchini, F. Ortolani. Udine
- Ore 10.05 **Contribution of amino acid sulfur to proteoglycan sulfation in a mouse model of diastrophic dysplasia.**
F. Pecora, B. Gualeni, A. Forlino, A. Superti-Furga, G. Cetta, R. Tenni, A. Rossi. Pavia e Friburgo (Germania)
- Ore 10.20 *coffee break*
- Ore 10.45 **Effects of EPO on the structural recovery of the nervous tissue in a rat model of traumatic spinal cord injury.**
L. Vitellaro Zuccarello, S. Mazzetti, P. Bosisio, S. De Biasi. Milano
- Ore 11.00 **Cytokines-induced increase of cell hyaluronan synthase activity: studies after oxidative injury in fibroblast cultures.**
G.M. Campo, A. D'Ascola, S. Campo, A. Avenoso, A.M. Ferlazzo, A. Calatroni. Messina
- Ore 11.15 **Heart valve "Elastin Leaflet" as starting material for tissue engineering.**
A. Gandaglia, M. Spina, G. Gerosa, I. Vesely. Padova e Los Angeles (USA)
- Ore 11.30 **Microdetermination of chondroitin sulfate in normal and PXE-affected human plasma by HPLC and fluorophore-assisted carbohydrate electrophoresis (FACE).**
N. Volpi, F. Maccari. Modena
- Ore 12.00 *Seduta amministrativa per SISC: Assemblea ordinaria dei soci*
- Ore 13.00 Sessione poster (l'elenco dei poster è in fondo al presente programma)
Buffet di mezzogiorno

Ore 15.00 III sessione

Moderatori: I. Pasquali Ronchetti, A. Rossi

- Ore 15.00 **Physiological and pathological aspects of the shape modular structure of cartilage, involving decorans. The aetiology of osteoarthritis.**
John. E. Scott. Manchester (UK)
- Ore 15.35 **The 3D structure of crimps in stretched and relaxed collagen fibers of rat gastrocnemius tendon.**
M. Franchi, M. Quaranta, M. Raspanti, V. De Pasquale, V. Ottani, M. Fini, G. Giavaresi, A. Ruggeri. Bologna e Varese
- Ore 15.50 **Hyaluronan content and gene expression for hyaluronan synthases and hyaluronidases in the umbilical cord of healthy and Down syndrome fetuses.**
E. Karousou, M. Viola, D. Vigetti, A. Genasetti, P. Moretto, F. Pallotti, M. Aboudan, M. Rizzi, G. De Luca, A. Passi. Varese
- Ore 16.05 **Hyaluronan metabolism in *in vitro* culture of endothelial cells.**
A. Genasetti, P. Moretto, D. Vigetti, M. Viola, M. Rizzi, E. Karousou, F. Pallotti, A. Passi, G. De Luca. Varese
- Ore 16.20 **“In vitro” and “in vivo” studies of titanium implants surface microtopography.**
A. Trirè, M. Franchi, D. Martini, B. Bacchelli, V. De Pasquale, E. Orsini, G. Giavaresi, S. Guizzardi, M. Raspanti, A. Ruggeri. Bologna, Parma e Varese
- Ore 16.35 *coffee break*
- Ore 17.00 **Overexpression of $\alpha 5$ integrin and its role in muscle development.**
B. Bartolini, L. Rogers, S. Wild, U. Mayer. Pavia e Manchester (UK)
- Ore 17.15 **Homozygosity modulates OI phenotype in BrtlIV mouse.**
A. Forlino, C. Bergwitz, T.E. Uveges, K.M. Kozloff, N.V. Kuznetsova, G. Gronowicz, S.A. Goldstein, S. Leikin, J.C. Marini. Pavia, Bethesda, Ann Arbor e Farmington (USA)
- Ore 17.30 *Chiusura del convegno*

POSTERS (Sessione dedicata: venerdì 23 settembre, h 13.00, via Bassi 21)

The role of the hypoxic condition on the protein profile of human fibroblasts.

F. Boraldi, G. Annovi, F. Carraro¹, I. Pasquali-Ronchetti, R. Tiozzo, D. Quaglino. Modena e Siena

Integrin and laminin chain expression in alpha 7 deficient smooth muscular tissue.

M. Contin, A. Bonetti, M. Marchini, U. Mayer, L. Sorokin, K. von der Mark, F. Ortolani. Udine, Manchester (UK), Lund (Svezia) e Erlangen (Germania)

Electromagnetic bioreactor effects on the growth of SAOS-2 cells seeded onto a titanium fiber mesh scaffold.

L. Fassina, G. Mazzini, V. Maliardi, E. Saino, M.G. Cusella, F. Benazzo, G. Magenes, P. Speciale, L. Visai. Pavia

ABCC6 gene analysis in Italian subjects affected by Pseudoxanthoma elasticum (PXE).

D. Gheduzzi, E. Giacobazzi, M. Rebecchi, R. Guidetti, D. Quaglino, I. Pasquali Ronchetti. Modena

β 2-microglobulin isoforms display an heterogeneous affinity for type I collagen.

S. Giorgetti, A. Rossi, P. Mangione, S. Raimondi, S. Marini, M. Stoppini, A. Corazza, P. Viglino, G. Esposito, G. Cetta, G. Merlini, V. Bellotti. Pavia e Udine

Characterization of ECM scaffolds obtained by decellularization of bovine nasal cartilage.

F. Naso, M. Marchini, F. Ortolani, A. Gandaglia, M. Spina. Padova e Udine

Histologic, histomorphometric and ultrastructural evaluation of titanium particles detached from titanium plasma sprayed endosseous dental implants.

E. Orsini, M. Franchi, D. Martini, B. Bacchelli, A. Trirè, M. Quaranta, M. Fini, A. Ruggeri. Bologna

Identification of free decorin core protein in tendon.

M. Sonaggere, B. Bartolini, F. Barbieri, R. Tenni, M.E. Tira. Pavia

Mutations in collagen I affect the binding to small leucine-rich proteoglycans.

R. Tenni, M. Sonaggere, M. Viola, M.E. Tira A. Forlino, J.C. Marini. Pavia e Bethesda (USA)

Molecular cloning and characterization of UDP-glucose dehydrogenase from the amphibian *Xenopus laevis* and its involvement in hyaluronan synthesis.

D. Vigetti, M. Viola, A. Genasetti, E. Karousou, F. Pallotti, V.C. Hascall, G. De Luca, A. Passi. Varese e Cleveland (USA)

Hyaluronan metabolism in human breast cancer cell line 8701BC.

M. Viola, D. Vigetti, E. Karousou, P. Moretto, A. Genasetti, M. Rizzi, F. Pallotti, G. De Luca, A. Passi. Varese