

XXVII SISC Meeting

*Italian Society
for the Study of Connective Tissues*

Bologna, 8-10 November 2007



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

*Dipartimento Scienze Anatomiche Umane e
Fisiopatologia dell'Apparato Locomotore – Sez Anatomia Umana*

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8th NOVEMBER 2007

16.30-17.00 Registration

17.00 -17.30 Opening Ceremony

**SESSION 1
FROM STRUCTURAL BIOLOGY TO BIOCHEMISTRY OF CONNECTIVE TISSUES**

Chair Persons : A. Ruggeri – R. Cancedda

17.30 - 18.15

WE ARE HELD TOGETHER BY ELASTIC CARBOHYDRATE STRINGS. PATHO-PHYSIOLOGICAL IMPLICATIONS

J.E.SCOTT

18.15 - 18.30

DECORIN INFLUENCES THE MORPHOLOGY AND SPATIAL LAYOUT OF COLLAGEN FIBRILS *IN VITRO*

M. RASPANTI, M. VIOLA, C. DELL'ORBO, C. GRUPPI, M.E. TIRA, and R.TENNI

18.30 - 18.45

CRIMPS IN QUADRICEPS TENDON AND PATELLAR LIGAMENT OF RAT

M. MACCIOCCA, M. FRANCHI, M. QUARANTA, V. DE PASQUALE, L. LEONARDI, A. DIONISI, A. RUGGERI and V. OTTANI

18.45 - 19.00

THE REMODELING OF BONE AROUND IMPLANTS WITH DIFFERENT SURFACE ROUGHNESS

E. ORSINI, A. TRIRE', M. FRANCHI, B. BACCHELLI, D. MARTINI, G. GIAVARESI, M. MACCIOCCA, V. OTTANI, and A. RUGGERI

19.00 - 19.15

NEW RAPID AFFINITY METHOD FOR THE EXTRACTION OF GLYCOPROTEINS AND PROTEOGLYCANS FROM DIFFERENT TISSUE SAMPLES

A. PARRA, A. CATTANEO, L. CALZÀ, A. BACHI, and L. SANGIORGI

19.15 - 19.30

STRUCTURAL ANALYSIS OF GLYCOSAMINOGLYCANS FROM FRESH AND DECELLULARIZED PORCINE AORTIC AND PULMONARY VALVES

A. CIGLIANO, A.J. LEPEDDA, E. ZINELLU, P. DEMURO, A. GANDAGLIA, F. NASO, M. SPINA, and M. FORMATO

19.30 - 19.45

BONE TISSUE ENGINEERING: EVIDENCE FOR A COUPLING BETWEEN BONE FORMATION AND SCAFFOLD RESORPTION

M. MASTROGIACOMO, A. PAPADIMITROPOULOS, V.S. KOMLEV, A. CEDOLA, F. PEYRIN, P. GIANNONI, S. PEARCE, M. ALINI, F. RUSTICHELLI. and R. CANCEDDA

20.00 Welcome Cocktail

9th NOVEMBER 2007

9.30 -10.30 SISC General Assembly

10.30 – 11.00 Coffee break

**SESSION 2
ECM GLYCANS IN BIOLOGY AND PATHOLOGY**

Chair Persons : A. Calatroni – GC. De Luca

11.00 – 11.45

PROTEOGLYCANS IN METASTASIS FORMATION AND ANTI-NEOPLASTIC THERAPEUTIC APPROACHES

R. PERRIS, S. CATTARUZZA, P. BRAGHETTA, P.A. NICOLOSI, K. LACRIMA, S. ROSSI, W.B. STALLCUP, P. BONALDO, L. PAZZAGLIA, M.S. BENASSI, P. PICCI, F. GIROLAMO, D. VIRGINTINO, L. RONCALI, U. OZERDEM, L. SIGALOTTI, N. BERTANI, B. WASSERMAN, P. SPESSOTTO, L. BRUNI, M. MACCARANA, and M. MAIO

11.45 – 12.00

NEW INSIGHT ON GENOMIC AND PROTEOMIC PROFILING OF DECORIN TRANSFECTED BREAST CANCER CELLS

L. MINAFRA, G. DI CARA, P. CANCEMI, N.N ALBANESE., M.R MARABETI, S. FEO and I. PUCCI-MINAFRA

12.00 – 12.15

4-METHYLLUMBELLIFERONE INDUCES CELL DEATH BY APOPTOSIS IN HUMAN AORTIC SMOOTH MUSCLE CELLS

M. RIZZI, D. VIGETTI, M. CLERICI, M. VIOLA, A. GENASETTI, E. KAROUSOU, G. DE LUCA and A. PASSI.

12.15 – 12.30

MODULATION OF HYALURONAN SYNTHESIS (HASS) ACTIVITY BY USING A NON-RADIOACTIVE METHOD

A. GENASETTI, D. VIGETTI, M. VIOLA, E. KAROUSOU, P. MORETTO, M. RIZZI, M. CLERICI, G. DE LUCA, V.C. HASCALL and A. PASSI

12.30 – 12.45

THE ROLE OF GLYCOSAMINOGLYCANS IN LPS-INDUCED INFLAMMATORY RESPONSE IN MOUSE ARTICULAR CHONDROCYTE CULTURES

A. D'ASCOLA, A. AVENOSO, S. CAMPO, P. TRAINA, A. CALATRONI and G.M. CAMPO

13.00 – 14.30 Lunch

Chair Persons : A. Ferlazzo – M. Spina

14.30 – 14.45

DIFFERENTIAL MODULATION OF HYALURONAN MOLECULAR SIZE ON LPS-STIMULATED INFLAMMATORY CYTOKINES IN CHONDROCYTES

P. TRAINA, A. AVENOSO, S. CAMPO, A. D'ASCOLA, A. CALATRONI and G.M. CAMPO.

14.45 – 15.00

PURIFIED HUMAN GLYCOSAMINOGLYCANS REDUCED NF- κ B ACTIVATION, PRO-INFLAMMATORY CYTOKINE PRODUCTION AND APOPTOSIS INDUCED BY LPS IN MOUSE CHONDROCYTES

A. AVENOSO, S. CAMPO, A. D'ASCOLA, P. TRAINA, A. CALATRONI and G.M. CAMPO

15.15 – 15.30

MOLECULAR CLONING AND PRIMARY STRUCTURE DEFINITION OF ALTERNATIVE SPLICING ISOFORMS OF VERSICAN FROM XENOPUS LAEVIS EMBRYO

G. NASTASI, A. D'ASCOLA, M. ORI, W. MATTINA, P. TRAINA, P. CASINI, A. AVENOSO, G.M. CAMPO, R. PERRIS, I. NARDI, A. CALATRONI and S. CAMPO

SESSION 3

NEW THERAPEUTICAL PERSPECTIVES IN DISEASES INVOLVING CONNECTIVE TISSUES

Chair Persons : I. Ronchetti – A. Rossi

15.30 – 15.45

COMPARATIVE DETECTION OF MATRIX METALLOPROTEINASE-2 AND -9, INTERLEUKIN-6 AND C-REACTIVE PROTEIN IN BREAST CANCER SERUM OF PATIENTS DURING NEOADJUVANT CHEMOTHERAPY

M.R. MARABETI, P. CANCEMI, G. DI CARA, N.N. ALBANESE, P. TAORMINA, A.MARRAZZO, and I. PUCCI-MINAFRA

15.45 – 16.00

HYPERFORIN DOWN-REGULATES EFFECTOR FUNCTION OF ACTIVATED T LYMPHOCYTES, AND SHOWS EFFICACY AGAINST Th1-TRIGGERED CNS INFLAMMATORY-DEMYELINATING DISEASE

I. DELL'AICA, A. CABRELLE, L. CALZÀ, C. AGOSTINI and S. GARBISA

16.00 – 16.30 Coffee break

16.30 – 16.45

EFFECT OF DIFFERENT THERAPEUTIC APPROACHES ON THE EXTRACELLULAR MATRIX IN RODENT MODELS OF SPINAL CORD INJURY

L. VITELLARO-ZUCCARELLO, P. BOSISIO, L. MADASCHI, D. BOTTAI, S. MAZZETTI, E. FONTANA, A. GORIO and S. DE BIASI

16.45- 17.00

EXTRACELLULAR MATRIX ALTERATIONS IN THE CENTRAL NERVOUS SYSTEM OF A MOUSE MODEL OF DIASTROPHIC DYSPLASIA

S. DE BIASI, P. BOSISIO, E. FONTANA, B.GUALENI, F. PECORA, A. FORLINO, A. ROSSI and L.VITELLARO-ZUCCARELLO

20.30 Social Dinner

10th NOVEMBER 2007

SESSION 3

**NEW THERAPEUTICAL PERSPECTIVES
IN DISEASES INVOLVING CONNECTIVE TISSUES**

Chair Persons : I. Pucci – V. Ottani

9.00 – 9.45

MOLECULAR TARGETED THERAPY IN BREAST CANCER AND BONE METASTASIS

O. CH. KOUSIDOU, I. KANAKIS, A. E. ROUSSIDIS, P. G. DEDES and N. K. KARAMANOS

9.45 – 10.00

EFFECTS OF INTRA-ARTICULAR ADMINISTRATION OF GLUCOSAMINE AND A PEPTIDYL-GLUCOSAMINE DERIVATIVE IN A RABBIT MODEL OF EXPERIMENTAL OSTEOARTHRITIS. A PILOT STUDY

R. SCANDURRA, A. SCOTTO D'ABUSCO, C. CICIONE, V. CALAMIA, L. POLITI.

10.00 – 10.15

PROLIFERATION AND DIFFERENTIATION POTENTIALITY OF MESENCHYMAL STEM CELLS IN BRLIV, A MURINE MODEL OF OSTEOGENESIS IMPERFECTA

A. LUPI, A. ROSSI, E. CAMPARI, R. TENNI, G. CETTA, J.C. MARINI and A. FORLINO

10.15 – 10.30

ANTIOXIDANT STATUS IN THE CIRCULATION OF PATIENTS WITH PSEUDOXANTHOMA ELASTICUM (PXE)

F. BORALDI, M.I. GARCIA-FERNANDEZ, D. GHEDUZZI, C. DEVINCENZI-PAOLINELLI, P. SANCHEZ, P. VALDIVIELSO, M.J. MORILLA, D. GUERRA, S. CASOLARI, D. QUAGLINO and I. PASQUALI-RONCHETTI

10.30 – 10.45

PROTEIN OXIDATION IN UNSTABLE PLAQUE EXTRACTS FROM HUMAN CAROTID SEGMENTS

A.J. LEPEDDA, A. ZINELLU, E. ZINELLU, G.M. CHERCHI, C. CARRU, L. DEIANA, S. SOTGIA, F. CARTA, F. TURRINI, R. SPIRITO and M. FORMATO

11.00 – 11.30 Conclusive remarks and end of the meeting

11.30 Coffee