



Secondo meeting IIM

Casciana Terme (Pisa) 21 - 23 Ottobre 2005

Programma preliminare

Keynote lecture

Audizione del Prof. Fabrizio Eusebi (Fisiologia della Sapienza)

ABSTRACTS

REGULATORY MECHANISM OF MYOGENESIS

1) MURINE MACROPHAGE CONDITIONED MEDIUM (mMCM) IMPROVES IN VIVO MUSCLE REGENERATION AFTER MASSIVE TISSUE ABLATION

L. Martelli, A. Malerba, M. Frigo, I. Scambi, D. Segat, L. Boldrin, P. De Coppi, R.G. Bellomo, L. Vitello and M.D. Baroni

2) THE PROMYOGENIC EFFECT OF TUMOR NECROSIS FACTOR ALPHA IS MEDIATED BY THE CYTOKINE-INDUCED ACTIVATION OF SPHINGOSINE KINASE

C. Donati, P. Nincheri, F. Cencetti, E. Meacci and P. Bruni

3) S100B-DEPENDENT INHIBITION OF MYOBLAST DIFFERENTIATION: MOLECULAR MECHANISM

Riuzzi F., Sorci G. and Donato R

4) RAGE MODULATES MYOBLAST PROLIFERATION, APOPTOSIS, ADHESIVENESS, MIGRATION AND INVASIVENESS

Riuzzi F., Sorci G. and Donato R

5) TIME-COURSE PROFILE OF MUSCLE ACTIN ISOFORMS EXPRESSION IN DIFFERENTIATING HUMAN SATELLITE CELLS ISOLATED FROM DONORS OF DIFFERENT AGE

H. Lancioni, L. Lucentini, A. Palomba, S. Fulle, M.R. Micheli, F. Panara

6) MHCs GENE CLUSTER ORGANISATION AND THEIR mRNA EXPRESSION IN DOG SKELETAL MUSCLES

L. Maccatrozzo, M. Patruno, F. Caliaro, L. Toniolo, C. Reggiani and F. Mascarello

7) LEVELS OF mRNA GROWTH FACTORS IN FOETAL AND NEWBORN PIGLETS

M. Patruno, F. Caliaro, L. Maccatrozzo, L. Toniolo, C. Reggiani, F. Mascarello

8) MHC ISOFORM COMPOSITION IN TRUNK, LIMB AND SPECIALISED CANINE MUSCLES

L. Toniolo, L. Maccatrozzo, M. Patruno, F. Mascarello and C. Reggiani

9) NF- κ B KO MICE ANALYSIS

Adami R., Mourkioti F., Parente V., Bottinelli R., Pasparakis M. and Rosenthal N

10) mMCM ENHANCED THE PROLIFERATION OF A SUB-POPULATION OF MUSCLE-DERIVED CELLS OBTAINED BY SERIAL PLATINGS

A. Malerba, L. Martelli, M. Frigo, D. Segat, L. Boldrin, P. De Coppi, R.G. Bellomo, L. Vitello and M.D. Baroni

11) SYSTEMIC DELIVERY OF AAV VECTOR EXPRESSING ANTISENSE-U1 SNRNA RESTORES DYSTROPHIN EXPRESSION AND FIBRES FUNCTION IN SKELETAL MUSCLES OF MDX MICE

Pansarasa O, D'Antona G, Denti M, Rosa A, De Angelis F, Parente V, Sthandier O, Auricchio A, Bottinelli R and Bozzoni I

12) MYOTUBES AND FIBERS CULTURES ON TRANSISTOR MICROCHIPS: INNOVATIVE WETWARE DEVICES FOR SINGLE CELL AND NON-INVASIVE STIMULATION, REGISTRATION AND TRANSFECTION

M. Quarta, M. Canato, S. Vassanelli and C. Reggiani

13) EFFECTS OF EXTREMELY LOW FREQUENCY ELECTROMAGNETIC FIELDS (ELF) ON *IN VITRO* DIFFERENTIATION OF MUSCOLAR CELLS

F. Rovetta, C. Morabito, N. Steimberg, J. Boniotti, G. Fanò, M. A. Marigliò and G. Mazzoleni

14) MYOBLAST DIFFERENTIATION: RELEVANCE OF CYTOSKELETAL REMODELLING AND SACs ACTIVATION. I – MORPHOFUNCTIONAL REMARKS.

C. Sassoli, D. Nosi, E. Meacci, P. Bruni, S. Zecchi-Orlandini, L. Formigli

15) MYOBLAST DIFFERENTIATION: RELEVANCE OF CYTOSKELETAL REMODELLING AND SACs ACTIVATION. II – ELECTROPHYSIOLOGICAL RESULTS.

R. Squecco, C. Sassoli, S. Zecchi, L. Formigli, F. Francini

16) CULTURE OF SATELLITE CELLS IN AN ELECTRICALLY-STIMULATED 3D COLLAGEN SCAFFOLD FOR THE CREATION OF ENGINEERED SKELETAL-MUSCLE GRAFTS

E. Serena, P. Campagnolo, L. Boldrin, E. Cimetta, P. G. Gamba, L. Vitiello, P. De Coppi, N. Elvassore

17) MORPHOLOGICAL CHANGES OF THE EXCITATION-CONTRACTION COUPLING APPARATUS IN AGEING HUMAN SKELETAL MUSCLE: A POSSIBLE ROLE IN THE DECLINE OF MUSCLE PERFORMANCE.

S. Boncompagni, L. d'Amelio, S.Fulle, G.Fanò, and F. Protasi

18) PLD ACTIVITY REGULATION AT THE EARLY STAGE OF MYOGENESIS.

F. Naro, S. Mebarek, H. Komati, A.F. Prigent and G. Némoy

MUSCLE DISEASE

19) PREVALENCE OF ASYMPTOMATIC HYPERCKEMIA

M.V. De Angelis, A. Di Iorio, A. Di Muzio, L. Ferrucci, M. Capasso, G. Abate, A Uncini

20) KINETICS OF CONTRACTION AND RELAXATION IN SINGLE MYOFIBRILS FROM FAMILIAL HYPERTROPHIC CARDIOMYOPATHY PATIENTS

A. Belus, N. Piroddi, C. Tesi, C. Poggesi

21) THE CONTRIBUTION OF HYPERTROPHIC SKELETAL MUSCLE TO MOTOR NEURON SURVIVAL IN A MOUSE MODEL OF ALS

Dobrowolny G., Giacinti C., Pelosi L., Nicoletti C., Molinaro M. and Musarò A.

22) CLINICAL AND FUNCTIONAL CHARACTERIZATION OF COMPOUND HETEROZYGOUS CASQ2 MUTATIONS ASSOCIATED WITH CATECHOLAMINERGIC POLYMORPHIC VENTRICULAR TACHYCARDIA (CPVT)

A. Nori, M. R. di Barletta, S. Viatcheko-Karpinski, M. Memmi, D. Terentyev, F. Turcato, G. Valle, C. Napolitano, S. Gyorke, P. Volpe, S. G. Priori

23) SATELLITE CELLS DELIVERED BY POLYMER: A NEW STRATEGY IN MUSCLE CELL THERAPY

L. Boldrin, A. Malerba, M. Flaibani, E. Cimetta, M. Piccoli, M. Pozzobon, C. Messina, L. Zanesco, P. Gamba, L. Vitiello, N. Elvassore, P. De Coppi

24) EXTRAPYRAMIDAL SYMPTOMATOLOGY DUE TO CHRONIC EXPOSURE TO MANGANESE: POSSIBLE INVOLVEMENT OF DIRECT MYOPATHY

J. Boniotti, F. Rovetta, N. Steimberg, P. Apostoli, M. A. Marigliò and G. Mazzoleni

25) MACROPHAGE-SECRETED FACTORS ENHANCE THE PROLIFERATION RATE OF DUCHENNE MUSCLE DYSTROPHY MYOBLASTS

M. Frigo, A. Malerba, L. Martelli, D. Segat¹, L. Boldrin, P. De Coppi, R.G. Bellomo, M.D. Baroni and L. Vitiello

26) ROLE OF INFLAMMATION IN MUSCLE REGENERATION

L. Pelosi, C. Giacinti, C. Nardis, L. Barberi, G. Dobrowolny, M. Molinaro and A. Musarò

27) SATELLITE CELLS DERIVED FROM VASTUS LATERALIS MUSCLE OF CFS PATIENTS: FIRST DATA

C. Puglielli, T. Pietrangelo, R. Mancinelli, J. Vecchiet, L. Vecchiet, G. Fanò and S. Fulle

28) FUNCTIONAL AMELIORATION OF DYSTROPHIC PHENOTYPE IN A DOG MODEL OF DUCHENNE MUSCULAR DYSTROPHY THROUGH INTRA-ARTERIAL DELIVERY OF MESOANGIOBLASTS

Rinaldi C., Pansarasa O., D'Antona G., Sampaolesi M., Blot S., Bottinelli R., and Cossu G.

29) ANTISENSE OLIGONUCLEOTIDES AS A THERAPEUTIC TOOL FOR DYSTROPHIC MUSCLE: IN VIVO EXPERIMENTING IN THE MURINE MDX MODEL

Malerba A., Ditadi P A., Bassi N., Campagnolo P., Gamba P., Zaccariotto E., Baroni M D., Reggiani C., Vitiello L.

30) STRUCTURAL ALTERATIONS OF THE EXTERIOR MEMBRANE SYSTEM IN SKELETAL MUSCLE FIBERS ARE PRESENT IN IDIOPATHIC HYPERCKEMIA (IH)

S. Boncompagni, A. Di Muzio, M. Capasso, M.V. De Angelis, M. Paci, F. Protasi and A. Uncini

CONTRACTION KINETICS AND REGULATION

31) FORCE GENERATION AND THE EFFECT OF INORGANIC PHOSPHATE IN SKINNED FIBRES FROM RABBIT PSOAS

M. Caremani, C. Piperio, V. Lombardi and M. Linari

32) TWO INDEPENDENT MECHANICAL EVENTS IN THE INTERACTION CYCLE OF SKELETAL MUSCLE MYOSIN WITH ACTIN

Capitanio M., Canepari M., Cacciafesta P, Lombardi V, Cicchi R., Maffei M., Pavone F.S. and R. Bottinelli

33) TROPONIN COMPOSITION AFFECTS MYOFILAMENT CALCIUM SENSITIVITY BUT NOT CROSS-BRIDGE CYCLE KINETICS

B. Scellini, A. Belus, N. Piroddi, C. Tesi, C. Poggesi

34) AFM-IMAGING AND ELASTICITY MEASUREMENTS OF THE SARCOLEMMA IN CULTURED SKELETAL MUSCLE FIBERS

Canato M., D Efranchi E., Bonaccorso E., Tedesco M., Pavan E., Raiteri R. and Reggiani C.

35) MECHANICAL PROPERTIES OF FAST AND SLOW SKELETAL MUSCLE IN MLC/mIgf-1 TRANSGENIC MICE: AN *IN VITRO* APPROACH

Rizzuto E., Nicoletti C., Del Prete Z., Molinaro M. and Musarò A.

36) PHYSIOLOGICAL CHARACTERIZATION OF 2-WEEK REGENERATED SOLEUS MUSCLE FIBRES

Germinario E., Esposito A, Zanin M, Palade PT, Betto R, Danieli D.

37) CROSSBRIDGE FORCE AND EXTENSION IN HYPERTONIC SOLUTION

B. Colombini, M.A. Bagni and G. Cecchi

38) CROSS-BRIDGE RECRUITMENT BY STRETCH OCCURS IN THE SUBMILLISECOND TIMESCALE

M. Reconditi, E. Brunello, R. Elangovan, T. Narayanan, M. Irving, M. Linari, G. Piazzesi, And V. Lombardi

39) ACUTE PASSIVE STRETCHING ALTERS THE MECHANICAL BUT NOT THE ELECTRICAL PROPERTIES OF CALF MUSCLES IN HUMANS

F. Esposito, E. Cè, Paola Alfieri, G. Pizzini, A. Veicsteinas

40) AUXOLOGY AND MOUNTAIN SPORTS FITNESS PROFILES

F.Coscia, P.V.Gigliotti, A. Cavicchioli, A.Biscarini G.E. De Medio

STRUCTURAL AND FUNCTIONAL MUSCLE MOLECULES

41) REDOX STATUS AND CA²⁺-TRANSPORT SYSTEM IN SKELETAL MUSCLE OF MLC/mIGF-1 TRANSGENIC MOUSE: A PRELIMINARY REPORT

Beccafico S., Fanò G., Dobrowolny G., Musarò A., Belia S.

42) SEARCHING FOR NEW PROTEINS PREFERENTIALLY EXPRESSED IN SKELETAL MUSCLE

Vujovic J., Santuccione A., Sorrentino V.

43) ORGANIZATION OF SARCOPLASMIC RETICULUM PROTEINS IN DIFFERENTIATING MYOTUBES

Cusimano V., Giacomello E., Sorrentino V.

44) HIF-1 ACTIVITY IN RAT FAST AND SLOW SKELETAL MUSCLE EXPOSED TO SYSTEMIC HYPOXIA

N. Cacciani, A. Matsakas , M. Murgia , S. Schiaffino And C. Reggiani

45) ROLE OF CAMKII IN REGULATION OF GLYCOGEN METABOLISM IN MAMMALIAN FAST-TWITCH SKELETAL MUSCLE

E. Damiani, R. Sacchetto, E. Bovo,

46) REDOX REGULATION OF BETA-ACTIN

T. Fiaschi, G. Cozzi, , G. Raugei, G. Ramponi and P. Chiarugi

47) SPHINGOLIPID SIGNALING IN DENERVATED SKELETAL MUSCLE

Zanin M., Germinario E, Biral D(1), RA Sabbadini, Betto R, Danieli D

48) PROTEOMIC ANALYSIS OF SKELETAL MUSCLES IN MDX AND α -SARCOGLYCAN-NUL MUTANT MICE

L. Brocca, O. Pansarasa, A. Bachi, R. Bottinelli and M.A. Pellegrino

49) LACK OF SKELETAL CALSEQUESTRIN DETERMINES A CHANGE IN THE ULTRASTRUCTURE OF CALCIUM RELEASE UNITS

C. Paolini, C. Reggiani, P.D. Allen and F. Protasi

50) Moresi V. Abstracts