

Mercoledì 29 Ottobre

14.30-14.45

Opening

14.45-15.30

Opening Lecture:

G. Cossu "Toward a cell therapy for muscular dystrophies"

15.30-17.15 MUSCLE DISEASES AND THERAPIES I

Chair: A. Musarò

15:30 - Final Report Of The European Project "Rise".

N. Adami, S. Zampieri, U. Carraro, H. Kern

15:45 - Molecular Mechanisms Regulating Skeletal Muscle Homeostasis: Effects Of V1a AVP Receptor Over-Expression.

A. Toschi, I. Murfuni, A.L. Severi, M. Molinaro, S. Adamo and B.M. Scicchitano.

16:00 - The Block Of Ca-Dependent K⁺ Channels Reduces Myotonia In Steinert Disease: An In Vivo Pharmacological Study.

Chisari C., Licitra R., Rossi B.

16:15 - RyR1-Y522S/+ Mice: A New Animal Model To Study Cores Myopathies In Skeletal Muscle.

S. Boncompagni, A.E. Rossi, S.L. Hamilton, R.T. Dirksen, C. Franzini-Armstrong and F. Protasi.

16:30 - Stem Cell Homing And Regulation: New Insights From Muscular Dystrophy.

M. Quattrocchi, M. Bongio, F. Ronzoni, I. Perini, M.G. Cusella De Angelis and M. Sampaolesi

16:45 - 17.15 General discussion

17.15-17.45 coffee break

17.45-19.30 MUSCLE DISEASES AND THERAPIES II

Chair: M. Sampaolesi

17:45 - mIGF-1 Modulates Caspase And CDK5 Expression In Skeletal Muscle Of A Mouse Model Of ALS.

M. Aucello, G. Dobrowolny, L. Barberi, S. Carosio, M. Molinaro and A. Musarò.

18:00 - CDK955: A New Player In Muscle Regeneration.

Giacinti C , Musarò A , Molinaro M , Jourdan I , Simone C , Giordano A.

18:15 - Cardiac Mesoangioblasts Are Committed, Self-Renewable Progenitors, Associated With Small Vessels Of Both Adult Normal And Cardiomyopathic Mouse Ventricle.

S. Crippa, M. Cassano, C. Clavel, D. Galli, L.a Perani, F. D'Angelo, T. Martinello, G. Cossu and M. Sampaolesi.

18:30 - In Vivo Delivery Of Naked And Lipid-Complexed Antisense Oligos In Mdx Mice: Effects On Skeletal And Cardiac Muscle.

Pigozzo S, Repele A, Reggiani C, Ausoni S, Zaglia T, Ambegia E, Mclachlan I, Vitiello L.

18:45 - Antioxidant Treatment Of Mouse In Vivo Does Not Prevent Hindlimb Unloading-Induced Muscle Atrophy.

Dinardo M.M., Desaphy J.-F., Liantonio A., Giannuzzi V., Pierno S., Digennaro C., Brocca L., Pellegrino M.A. , Bottinelli R., Conte Camerino D.

19:00 - 19.30 General discussion

Giovedì 30 Ottobre

8.30-10.30 CELL BIOLOGY AND MYOGENESIS

Chair: G. Fanò

8:30 - Gene Expression Profile Of GTP-Dependent Differentiation Of C2C12.

R. Mancinelli, T. Pietrangelo and S. Fulle

8:45 - Sphingosine Kinase/Sphingosine 1-Phosphate Axis Is Implicated In The Transforming Growth Factor-B-Dependent Myofibroblastic Differentiation Of Myoblasts.

C. Bernacchioni F. Cencetti, C. Donati, E. Rapizzi, P. Nincheri, P. Bruni

9:00 - Bisperoxovanadium, A Phospho-Tyrosine Phosphatase Inhibitor, Reprograms Myogenic Cells To Acquire A Pluripotent, Circulating Phenotype.

L. Castaldi, C. Serra, P. Smeriglio, F. Moretti, M. Sampaolesi, M. Molinaro, G. Cossu, Sassoon D.A., M. Levrero, and Bouché M.

9:15 - Differential Engagement Of Rage And Fgfr1 In Muscle Satellite Cells By S100b Protein: Involvement Of Rage In Satellite Cell Activation And Of FGFR1 In Satellite Cell Expansion.

Riuzzi F., Sorci G., and Donato R.

9:30 - Importance Of Connexin-43 In The Regulation Of Sphingolipid Metabolism In Skeletal Muscle Cells.

Bini F., von Maltzahn J., Willecke K. and Meacci E.

9:45 - The Role Of Nicotinic Acetylcholine Receptor Clusters In Calcium Spiking And Twitching In Differentiating Mouse Skeletal Myotubes.

Lorenzon P., Bandi E., Tognon E., Bernareggi A.

10:00 – 10.30 General discussion

10.30-11.00 coffee break

11.00-13.00 FROM THE ELECTRICAL IMPULSE TO THE SR CA RELEASE (IV SESSIONE)

Chair: F. Protasi

11:00 - Agrin Changes The Electrical Properties Of Developing Human Skeletal Muscle Cells.

Sciancalepore M., Fumagalli G., Grubic Z., Jurdana M., Lorenzon P., Mars T.

11:15 - Impaired Muscle Oxidative Metabolism In Inflammatory Myopathies Evaluated In Vivo Through Lactic Acidemia Assay.

Chisari C., Stampacchia G., Cianferotti V., Neri R., Mosca M., Rossi B.

11:30 - Effects Of Elocalcitol On L-Type Ca^{2+} Channels Of Smooth Muscle Cells From Human Bladder.

G. Luciani, R. Squecco, A. Morelli, M. Maggi, F. Francini

11:45 - YIP1 Isoforms In Skeletal Muscle.

E. Mazzoli, V. Barone, J. Kunic, S. Tronolone, A. Corrado, V. Sorrentino.

12:00 - Calsequestrin-1 Controls Ca^{2+} Release Unit Architecture And Modulates The Amplitude Of The Calcium Transient Induced By Electrical Stimulation In Fast-Twitch Muscle Fibres.

M. Tomasi, M. Canato, C. Paolini, M. Dainese, C. Reggiani, F. Protasi, P. Volpe, A. Nori

12:15 - Heat- And Anesthetic-Induced Sudden Death In Calsequestrin-1 Knockout Mice.

M. Dainese, M. Quarta, A.D. Lyfenko, C. Paolini, M. Canato, R.T. Dirksen, C. Reggiani, and F. Protasi.

12:30 – 13.00 General discussion

13.00-15.00 Lunch

15.00-16.45 SKELETAL MUSCLE MECHANICS

Chair: G. Cecchi

15:00 - Structural Changes In The Myosin Motors During Activation And Force Generation Of Muscle.

E. Brunello, M. Reconditi, M. Linari, P. Bianco, T. Narayanan, P. Panine, G. Piazzesi, V. Lombardi, M. Irving.

15:15 - Mechanical Properties Of The Actomyosin Bond During The Quick Force Recovery In Single Frog Muscle Fibres.

M. Nocella, G. Cecchi, B. Colombini, G. Benelli, M.A. Bagni.

15:30 - The Molecular Basis Of Muscle Braking.

L. Fusi, V. Lombardi, G. Piazzesi

15:45 - Mechanical Properties Of Single Intact Skeletal Muscle Fibres Isolated From Wild-Type And MLC/mIGF-1 Mice.

G. Benelli, M. Nocella, B. Colombini, A. Musarò, G. Cecchi and M.A. Bagni

16:00 - Temperature Dependence Of Mgatp And Mgadp Sensitivity Of Sliding Velocity On Fast And Slow Rat Myosin Isoforms.

E. Longa, M. Canepari, R. Rossi, M. Maffei, M.A. Geeves And R. Bottinelli

16:15 – 16.45 General discussion

16.45-19.00 Posters con coffee break

19.00-19.45

Lettura Magistrale: S.Schiaffino "TITLE TO BE ANNOUNCED"

POSTERS

Muscle Disease and Therapies

Cachectic Muscles Exhibit Both An Increased susceptibility To Damage And A Reporative Deficit.

E. Berardi, P. Aulino, V. Cardillo, M. Molinaro, S. Adamo and D. Coletti

Magic Factor-1, A Partial Agonist Of Met, Induces Muscle Hypertrophy By Protecting Myogenic Progenitors From Apoptosis.

F. Ronzoni, M. Cassano, M. Quattrocchi, L. Benedetti, R. Boratto, V. Gasbarri, G. Cusella De Angelis, P. Michieli, G. Cossu and M. Sampaolesi

Role Of Il-6 In Skeletal Muscle Atrophy.

Berardinelli MG, Pelosi L, Rizzuto E, Nicoletti C, Molinaro M, Musarò A.

Cell Biology and Myogenesis

PKC Theta Expression/Activity Is Required For Muscle Maintenance And Remodelling.

P. Smeriglio, L. Madaro, P. Carrarelli, E. Rizzuto, E. Stanganello, A. Musarò, M. Molinaro and M. Bouché.

Mesoangioblast Reprogramming: Pluripotency Vs Multipotency In Muscular Differentiation.

G. Coppiello, V. Gasbarri, M. Bongio, B. Bosi, T. Shimizu, B. Di Stefano, V. Broccoli and M. Sampaolesi.

From the electrical impulse to the SR Ca release

Physiological Role Of Ng2 In Skeletal Muscles: In Vivo And In Vitro Studies.

R. Tiozzo Fasiolo, M. Canato, B. Blauw, M. Scorzeto, C. Reggiani

Muscle Mechanics

The Effect Of Phosphate On The Mechanics And Energetics Of The Isometric Contraction Of Skeletal Muscle.

M. Caremani, V. Lombardi, M. Linari

Effects Of Constant Load On The Working Stroke Of Skeletal Myosin.

M. Maffei, M. Capitanio, M. Canepari, D. Beneventi, F. S. Pavone, and R. Bottinelli

In Vitro Study Of Mechanical And Kinetic Properties Of Myosin II From Frog Skeletal Muscle.

R. Elangovan, M. Capitanio, V. Lombardi

The Intensity Of The 2.73nm Reflection Used To Determine The Number Of Attached Motors In The Isometrically Contracting Muscle.

Reconditi M. and Irving T.C.

Skeletal Muscle Adaptations and exercise

Unilateral Hindlimb Immobilization: A Simple Model Of Proteasome-Dependent Atrophy In Mice.

L. Madaro, P. Smeriglio, M. Molinaro and M. Bouché

Temperature Effects On Contractile Parameters Of Feline Muscle Fibres.

P. Cancellara, L. Toniolo, C. Reggiani, L. Maccatrozzo, M. Patruno, F. Mascarello

2-D Proteome Maps Of Type 1 And 2B Single Rat Muscle Fibers.

O. Pansarasa, S. Barozzi, E. Bellinzona, L. Brocca And R. Bottinelli

Prolonged Amino Acids Supplementation Improves Insulin Activation Of Akt/mTOR Signaling In Soleus Muscle Of Elderly Rats.

V. Flati, F. Caliaro, S. Specia, G. Corsetti, R. Bottinelli and G. D'Antona

Proteome Analysis Of Protein Expression In Skeletal Muscles Of Hindlimb Unloaded Mice.

M.A. Pellegrino, L. Brocca, J.F. Desaphy, D. Conte Camerino, R. Bottinelli.

Functional And Proteomic Analysis Of Human Skeletal Muscle Following Neuromuscular Electrical Stimulation.

L. Brocca, J. Gondin, E. Bellinzona, F. Caliaro, L. Maccatrozzo, G. D'Antona, M.A. Pellegrino, and R. Bottinelli

Venerdì 31 Ottobre

8.30-10.30 SKELETAL MUSCLE ADAPATATIONS AND EXERCISE I

Chair: M. Sandri

8:30 - Identification Of 2B, 2EO And Laryngeal Myosin Heavy Chain Isoforms In Human Pre-Somitic Skeletal Muscles.

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

8:45 - Different Intrinsic Properties Of Young And Aged Human Satellite Cells.

Beccafico S., Riuzzi F., Puglielli C., Fulle S., Sorci G., and Donato R.

9:00 - Age-Dependent Changes Of Signaling Pathways Of Muscles From α -Sarcoglycan-Deficient Mice.

E. Germinario, S. Peron, D. Sandonà, S. Franzoso, R. Betto and D. Danielli-Betto.

9:15 - Fox03 And Fox01 Controls Different Atrophy-Related Genes.

Milan G. and Sandri M.

9:30 - Variations In Cross Sectional Area And Myosin Content In Single Human Muscle Fibres Following Five Weeks Bed Rest.

E. Borina, M.A. Pellegrino, G. D'antona And R. Bottinelli

9:45 - Any Role For Homer 2 In Skeletal Muscle Atrophy And Plasticity?

E. Bortoloso, F. Nicolazzo, A. Megighian, C. Millino, B. Celegato, G. Lanfranchi, L. Gorza, M. Sandri and P. Volpe

10:00 - Combined Biophysics, Genetic And Proteomic Analysis Of The Effect Of Statin And Fibrate Treatment On Rat Skeletal Muscle.

Camerino GM, Pierno S, Digennaro C, Pellegrino MA, Conte Camerino D, Bottinelli R.

10:15 - Activation Of An Atrophic Program By C-Flip Over Expression In Mouse Skeletal Muscle.

C. Giampietri, S. Petrungaro, P. Coluccia, F. Antonangeli, F. Padula, K. Giannakakis, T. Faraggiana, A. Filippini, E. Ziparo

10.30-11.00 coffee break

11.00-13.00 SKELETAL MUSCLE ADAPATATIONS AND EXERCISE II

Chair: A. Veicsteinas e F. Figura.

11:00 - Evaluation Of HRR In Relation To Different Position In Professional Soccer Players.

Bonaiuto M, Di Mauro D, Pagano F, Speciale F, Speranza G, Trimarchi F, Magaudda L.

11:15 - Electrical And Mechanical Response Of Finger Flexor Muscles During Voluntary Isometric Contractions In Elite Rock-Climbers.

E. Limonta, E. Cè, M. Gobbo, A. Veicsteinas, C. Orizio, F. Esposito

11:30 - Determination Of Lactate Threshold During Incremental Workload In Saliva.

Valenzano A, Basanisi SD, De Rosas M, D'Arienzo G, Di Bari F, Ajazi A, and Cibelli G.

11:45 - SISMES I

Autori

12:00 - SISMES II

Autori

12:15 - General discussion per sessione A e B

13.00-15.00 Lunch

15.00 Partenza