

European Society for Muscle Research

XXIII EUROPEAN MUSCLE CONGRESS

Ruhr-University, Bochum, Germany
12-17 September, 1994

Preliminary Scientific Programme:

1. EC-Coupling; 2. Muscle Structure; 3. Thin Filament / S1; 4. Signal Transduction in Muscle Growth and Motility; 5. Smooth Muscle; 6. Cardiac Muscle; 7. Cytoskeleton of Muscle Cell; 8. Muscle Imaging

There will be invited lectures, short talks based on submitted abstracts, and posters. Much time will be allotted to the poster sessions.

Organizers: L.M.G. Heilmeyer, R. Goody, H.G. Mannherz

Fees: DM 190 for Participants in staff position from Western countries, and DM 90 for Western students; additionally DM 10 as a membership contribution to the European Society for Muscle Research. There will be no fee for Eastern students. The fee covers the programme and abstract book, publication of the abstract as well as social events and does not include accommodation and meals (meals will be available at moderate prices in the university cafeterias and restaurants).

Hotel reservations will be arranged by the Verkehrsverein Bochum, from which you will receive a registration card for your special orders and wishes.

Pre-registration form (please copy, as you need) should be sent to: Prof. L.M.G. Heilmeyer, Jr., Institut für Physiologische Chemie, Ruhr-Universität Bochum, D-44780 Bochum, Germany

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For further information: XXIII EMC, Congress Office
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6th European Regional Conference of

REHABILITATION INTERNATIONAL

Budapest, Hungary,
September 4th to 9th, 1994

The committee have invited a wide range of international experts to act as international co-ordinators of the sessions and sub-sessions. They are currently calling for papers from potential speakers who are invited to submit a brief resume of their paper (maximum 750 words) to the International Secretariat in Halifax, England to be received no later than September 30th 1993. Submissions may be made in English or French.

6th European Regional Conference
of Rehabilitation International
International Secretariat:

The Old Vicarage
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Halifax
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The Dynamic State of Muscle Fibers

Proceedings of the International Symposium
October 1-6, 1989
Konstanz, Federal Republic of Germany

Edited by Dirk Pette

published by Walter de Gruyter, Berlin, New York
XXXVI, 1-736, 1990
ISBN 3-11-012168-9

This book is an outcome of an International Symposium held at Konstanz. Distinguished biochemists, cell biologists and neurophysiologists and muscle pathologists contributed to the phenomenon of muscle plasticity and its underlying mechanisms. The main topics are the structural, functional and biochemical heterogeneity of muscle as a tissue, the programme of its ontogeny and differentiation with particular reference to their regulation, the regulation of its properties of innervation usage, and hormones and its artificial modulation by altered innervation or chronic electrostimulation.

Readers interested to the last topic will find a spectacular up-to-date review in D Pette and G Vrbova: Adaptation of Mammalian Skeletal Muscle Fibers to Chronic Electrical Stimulation. *Rev Physiol Biochem Pharmacol* 1992; 120: 115-202.

Molecular and Cell Biology of Muscular Dystrophy

Edited by Terence Partridge

Published by Chapman & Hall
2-6 Boundary Row, London SE1 SHN, (UK)
XVI, 1-344, 1993
ISBN 0412 43440 7

Recent advances in molecular and associated cell biological technology have made skeletal muscle disease particularly important and exciting area of research. This book gives a series of accounts of various aspects of the remarkable breakthrough which has been achieved in our understanding of the Duchenne/Becker muscular dystrophies and the consequences and ramifications of this breakthrough. Current research literature describing the advances being made in molecular and cell biological research is quite incomprehensible to the majority of clinical neurologists, pediatricians and many basic scientists with marginal interests in the muscular diseases, being based on disciplines remote from their training and being heavily laden with acronyms and jargon. The book remedies this problem by presenting the prototype example of the "reverse genetic" approach as successfully applied to Duchenne muscular dystrophy in a generally intelligible manner and by exploring its farreaching practical consequences in both clinical diagnosis and research.

Basic and Applied Myology: Perspectives for the 90's

Proceedings of a Conference held in Abano Terme,
Padova (Italy), May 30 - June 1, 1991.

Edited by Ugo Carraro and Stanley Salmons

published by UNIPRESS Padova
Via C. Battisti 231, I-35121 Padova (Italy)
XXI, 1-460, 1991

<i>Chapter</i>	<i>1. Myosin</i>
<i>Chapter</i>	<i>2. Power Output of Muscle Engine</i>
<i>Chapter</i>	<i>3. Muscle Plasticity</i>
<i>Chapter</i>	<i>4. Injury and Repair Induced by Muscle Activity</i>
<i>Chapter</i>	<i>5. Reliable Methods for BAM</i>
<i>Chapter</i>	<i>6. Electrophrenic Pacing</i>
<i>Chapter</i>	<i>7. Dynamic Cardiomyoplasty</i>
<i>Chapter</i>	<i>8. Skeletal Muscle Powered Neosphincter</i>
<i>Chapter</i>	<i>9. Muscle Stimulation in Rehabilitation</i>
<i>Chapter</i>	<i>10. Muscle Transplantation</i>
<i>Chapter</i>	<i>11. Muscle Driven Devices for Cardiac Assistance</i>

The book provide an opportunity for clinicians to learn about some of the interesting new directions currently being followed in skeletal muscle research and for basic scientists to familiarise themselves with emerging medical applications that will continue to call for a substantial input from pure research. This book is a good example of the productive association between basic research in myology and its practical application. In many cases the methodologies are complex and, while the prospects are exciting, the authors are properly cautious about the research that still remains to be done before techniques as these can be implemented safely and on the necessary scale.

BAM 3 (3), 1993

ARTICLES

Satellite cells isolated from sheep skeletal muscle are not homogeneous

G Molnar and MV Dodson

Heterogeneity of slow skeletal myosin heavy chain in foetal rat skeletal muscles

GK Dhoot and A d'Albis

Skeletal muscle culture conditioned media influence the DNA synthesis of tumor cells

P Arslan, ML Massimino and M Cantini

Mechanical damage and inflammation of skeletal muscles in the disease course of muscular dystrophic mice

T Totsuka, K Watanabe, I Uramoto, M Nagahama, T Kumagai, T Yoshida, K Shimada and T Mizutani

BAM METHODS

Analysis of structure function relationship on skinned muscle fibers by combination of different tests: Ca and Sr affinities, slack test (Vmax), myosin and troponin electrophoresis

Y Mounier, L Stevens and C Cordonnier

A PCR protocol for detecting dystrophin gene mutations

FA Saad, F Galvagni and GA Danieli

Myoglobin determination in muscle tissue extracts for Western blot dystrophin analysis

D Franciotta, E Zardini, GV Melzi d'Eril and A Belardinelli

Separation by gel electrophoresis under non dissociating conditions (PPi PAGE) of the native isoforms of myosin

A d'Albis and C Janmot

Electroendosmotic preparative electrophoresis: A one-step method for the purification of nearly all the proteins from complex mixtures

A Curioni, A Dal Belin Peruffo and L Furegon

Straightforward identification of MHCemb by peptide mapping

M Sandri, C Rizzi and C Catani

Isolation of myoblasts from fast and slow regenerating muscles of adult rats

M Cantini and U Carraro

BAM 3 (4), 1993

Guest Editor: Larry W. Stephenson

EDITORIAL

LW Stephenson: *Skeletal Muscle-Cardiac Assist in America*

ARTICLES

Skeletal muscle ventricle: 1993 up date

S Isoda, H Nakajima, RL Hammond, GA Thomas, H Lu, HO Nakajima, AD Spanta and LW Stephenson

Clinical and experimental effects of the unstimulated (static) right Latissimus Dorsi cardiomyoplasty on left ventricular function

RR Lazzara, DR Trumble, JA Magovern and GJ Magovern

Cardiomyoplasty in 26 patients with up to six years follow-up

DM Braile, MJF Soares, MCZ Rodrigues, SL Ramin, RS Thevenard, M Zaiantchick and DRS Souza

Cardiomyoplasty: Our experience after six years

HE Almada, L Molteni and RF Ferreira

Dynamic cardiomyoplasty: now and the future

AP Furnary, JS Swanson and A Starr

Difficulties in the assessment of cardiac function in patients after cardiomyoplasty

PW Cho, HR Levin, J Tsitlik and MA Acker

Ventricular and skeletal muscle function in cardiomyoplasty: experimental observations

DT George, JD Sink and WP Santamore

"Indirect myocardial revascularization" Historical development and current progress.

A potential application of cardiomyoplasty

V Blood, M Magno and J Mannion

Beyond transformation: Skeletal muscle satellite cell as a possible source of neomyocardium

D Marelli, D Greentree and RC-J Chiu

BAM 4 (1), 1994
Guest Editor: Stanley Salmons

EDITORIAL

Stanley Salmons: *Muscle damage*

ARTICLES

Exercise-induced muscle damage: recent developments

PR Bar, JB Rodenburg, RW Koot and GJ Amelink

An in situ single skeletal muscle model of contraction-induced injury: mechanistic interpretation

JA Faulkner, SV Brooks and E Zerba

Biomechanical basis of muscle cellular damage

RL Lieber and J Friden

Structural basis of muscle cellular damage

J Friden and RL Lieber

Intracellular mechanisms involved in damage to skeletal muscle

A McArdle and MJ Jackson

Damage to human muscles by eccentric exercise or reperfusion after ischaemia: a common mechanism?

DA Jones and JM Round

Stimulation-induced muscle damage

J Lexell, JC Jarvis, DY Downham and S Salmons

The relationship of ⁹⁹Tcm-pyrophosphate uptake to muscle damage in chronically stimulated rabbit muscles

VM Cox, JC Jarvis, H Sutherland and S Salmons

Clinical aspects and basic science of muscle strain injuries

TM Best, CT Hasselman and WE Garrett, Jr

Muscle damage in myopathies: the role of immunohistochemistry in the recognition of pathogenetic mechanisms

TR Helliwell

INFORMATION FOR AUTHORS

GENERAL

BAM will mainly cover skeletal muscle basic research and its applications. Special attention will be paid to reports of experimental studies in large mammals to test hypotheses of muscle and non-muscle diseases managements. Myocardium and smooth muscle studies will also be considered. **Basic and Applied Myology** publishes basic and clinical research studies in the fields of anatomy, physiology, cell biology, biochemistry, molecular biology and gene mapping, comparative biology, development and differentiation, regeneration, pathology, epidemiology, bioengineering, testing, pharmacology, toxicology, surgery, medicine. Non-medical studies in fields such as veterinary, breeding and biotechnology will also be considered, if they concern muscle at molecular, cellular or organismic levels.

The journal publishes:

1. Review Articles, invited or submitted, on current topics.
2. Perspectives, they will present opinions on future trends in basic and applied myology;
3. Main Articles, they will present original laboratory and clinical research and related topics. They will be divided in: Abstract, Introduction, Materials and Methods (all details must be given so that results can be duplicated), Results, Discussion, Address for correspondence, Acknowledgments, References (full authorship and title);
4. Communications, they will present original papers 2-4 pages long. They will be divided in: Abstract (50 words, techniques, results and main conclusion), Introduction, Methods (but only the new ones or the modifications to published methods), Results and Discussion, Address for Correspondence, Acknowledgments, References (less than twenty, without title and with the first three authors only);
5. Myology News, a redactional covering major breakthrough in Myology, academic/didactic issues, book reviews and Calendar of Events (Conferences, Workshops and Courses).

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Manuscripts are accepted for consideration with the understanding that they have not appeared elsewhere in any but abstract form and are not concurrently under review elsewhere.

Manuscript should be sent by air to:

Ugo Carraro, Editor of BAM
Institute of General Pathology
University of Padova
Via Trieste 75

I-35121 PADOVA (Italy)

Phone INT 49 8286510; FAX INT 49 8286576

or to one of the Associate Editors:

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G. Marechal, Univ. Catholique de Louvain, Dept. de Physiologie, Tour Harvey UCL 5540, Av. Hippocrate 55, B-1200 Bruxelles, fax Belgium-2-7645322

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Examples of the correct format are as follows:

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1. Buller AJ, Eccles JC, Eccles R: Interactions between motoneurons and muscles in respect of the characteristic speeds of their responses. *J Physiol (London)* 1960; 150: 417-439.
2. Grandjean PA, Herpers L, Smits K, Bourgeois I, Chachques JC, Carpentier A: Implantable electronics and leads for muscular cardiac assistance, in Chiu RCJ (ed): *Biomechanical cardiac assist. Cardiomyoplasty and muscle-powered devices*. Mount Kisco, New York, Futura Publishing Company, Inc., 1986, pp 103-114.
3. Marechal G, Carraro U (eds): *Muscle and Motility (Vol 2)*. Andover, Hampshire, Intercept, 1990; pp 1-389.

for *Communications*

1. Buller AJ, Eccles JC, Eccles R: *J Physiol (London)* 1960; 150: 417-439.
2. Grandjean PA, Herpers L, Smits K et al: in Chiu RCJ (ed): *Biomechanical cardiac assist. Cardiomyoplasty and muscle-powered devices*. Mount Kisco, New York, Futura Publishing Company, Inc., 1986, pp 103-114.
3. Marechal G, Carraro U (eds): *Muscle and Motility (Vol. 2)*. Andover, Hampshire, Intercept, 1990; pp 1-389.

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