

Joint Meeting of Clinical Biochemistry

NEW TRENDS IN THE CLINICAL CHEMISTRY OF ORGAN TRANSPLANTATION

Vienna, Austria, 16-17 June, 1994

Abstract deadline: March 31, 1994

A brochure containing detailed information on the Symposium, program registration, abstract kit, accommodation, social program, etc. will be available on request to the:

Organizing Secretariat:

E. Feichtinger
Kaiser-Franz-Josef Hospital
Department of Laboratory-Diagnostics
Kundrastrasse, 3
A-1100 Vienna, Austria
Tel: +43 1 60191 234 or 547
Fax: +43 1 60191 632

International Workshop on

CARDIAC GROWTH & REGENERATION

A NATO ADVANCED RESEARCH WORKSHOP

Viterbo (Italy) 19-24 June 1994

Topics

Cardiac muscle cell division and determination; Cardiac Hypertrophy; Angiogenesis; Growth Factors and Cardiac Growth; Gene Transfer to Study Cardiac Growth

For further information, preliminary program and Abstracts forms, please contact:

M. Promontorio
Tuscia Congressi Srl
Via Bassano del Grappa, 4, 00195 Rome (Italy)
tel: +39 6 8080892; fax: +39 6 8080999; telex: 6121421

FOURTH EUROPEAN CONGRESS OF CELL BIOLOGY

Prague, Czech Republic

June 26 - July 1, 1994

Deadlines

Submission of abstracts	February 28, 1994
Registration at discount rates	February 28, 1994
Registration at regular rates	June 15, 1994
Hotel and excursion deposits	February 28, 1994

Correspondence address

for programme, abstracts and fellowships

Dr. Zdenek Drahota
Scientific secretariat of ECBO Congress
Videnska 1083
142 20 Prague 4
Czech Republic

Phone: + 42 2 472 1151
Fax: + 42 2 471 3335

Engineering Foundation

NEURAL PROSTHESES: MOTOR SYSTEMS IV

Deer Creek Resort and Conference Center, Mt. Sterling, Ohio

July 23-28, 1994

For further information, please contact:

Engineering Foundation Conferences
345 East 47th Street
New York, NY 10017
Fax: 001 212 7057441

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

Pre-Registration Form (non committal)

Family Name First Name

Date of birth Position: Student ... Post doctoral ... Academic staff ...

Industry Other Institution.....

Mailing address: Street

Postal code City State

Tel Fax E-Mail

Tentative title of my contribution

.....

Date Signature

For further information: XXIII EMC, Congress Office Institut für Physiologische Chemie, Ruhr-Universität Bochum, D-44780 Bochum, Germany. Tel: +49 (234) 700.2428; Fax +49 (234) 709.4193; E-mail: Ludwig Heilmeyer @ ruba.rz.ruhr-uni-bochum-d400.de

SARCOMERIC MYOSINS: STRUCTURE, FUNCTION AND DYSFUNCTION

San Servolo, Venice (Italy), September 22-24, 1994

Topics of the workshop: Atomic structure of myosin crystals; Myosin isoforms in smooth and striated muscles; Myosin heavy chain and light chain genes; Myosin isoforms and contractile function: single fibre studies and in vitro motility assays; Myosin heavy chain and light chain mutations: familiar hypertrophic cardiomyopathy.

Lodging, meals and registration fee will cost approximately Lit. 500.000 (five hundred thousand).

A brochure containing detailed information on the Symposium, program registration, abstract kit, accommodation, social program, etc. will be available on request to one of the Organizers:

Stefano Schiaffino, University of Padova, C.N.R. Unit for Muscle Biology and Physiopathology, Via Trieste 75, I-35121 Padova (Italy) fax +39 49 8286576

or

Carlo Reggiani, University of Pavia, Institute of Human Physiology, Via Forlanini 6, I-27100 Pavia (Italy) fax +39 382 423136

4th INTERNATIONAL MUSCLE SYMPOSIUM

March 23rd - 25th, 1995, Zurich

A tradition was established with the organization of the *Vienna Muscle Symposium* meeting every five years. The success of the former three meetings in Vienna was based mainly on the exchange of knowledge and ideas between international scientists presenting basic and experimental research and clinicians demonstrating the application of muscle transplantation. This tradition will be continued at the *4th International Muscle Symposium in Zurich 1995*. We have the great pleasure in inviting you to attend this meeting with colleagues from different specialities, who are interested in functional neuromuscular reconstructions.

Topics of the Scientific Program

- Basic and experimental research on muscle transplantation
- Factors with influence on regeneration
- Morphology and choice of muscle transplants
- Neurotization of the muscle
- Neuromuscular reconstruction in the paralysed face
- Functional muscle transplantation in extremities
- Reconstruction of sphincter muscle function
- Functional electrostimulation of muscles
- Documentation of muscular function and evaluation of functional results
- New indications for functional muscle transplantation
- Free papers

Congress Secretariat

Pietro Giovanoli, M.D.
Division of Hand-, Plastic and Reconstructive Surgery
University of Zurich, Medical School
Raemistrasse 100
CH-8091 Zurich, Switzerland
tel: +41 1 2552707
fax: +41 1 2554425

Second Announcement - Call for Papers

A further brochure containing more detailed information on the Symposium, program registration, accommodation, social program, etc. will be available in spring of 1994.

Name

Address

.....tel fax

I wish to present a paper (topic or preliminary title)

YES, I wish further information

.....
Signature

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 far-reaching 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

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

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.

MYOLOGY NEWS

Next Issues of B A M

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 neo-myocardium

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 ⁹⁹Tc_m-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

Dear Colleague,

The progressive reduction of research resources in Europe at national level calls for a major effort to generate funding at EC level, since the latter is fortunately in expansion. Both the basic and applied research which are actually coordinated by the EC CA HEART may be financed by at least four EC programs: Biomed, Human Capital and Mobility, Biotechnology and Tempus. Two options are open: 1. Maintain the actual framework of the HEART for coordination, and 2. Include our activities in a more general topic for funding, at least in part, research and researchers.

To achieve the second goal, I am submitting for your consideration the following proposal for the European Network on Applied Myology, which obviously reflects my primary research interests, but which is at the same time original and promising at both research and application levels.

The European Network of Applied Myology

I am really confident that the knowledge accumulated during the last twenty years in basic myology is offering to the medical and non-medical community several options to give answers to very common social demands. A few examples are enough to convince sceptics and offer the draft of an organizational model: 1. Gene therapy via myoblasts; 2. Skeletal muscle as an energy source for implantable devices; 3. Functional muscle transplants and rehabilitation technology; 4. Animal breeding, their misconduct controls and transgenic animal models of human pathology.

Even a few considerations on the fine tuning of the accumulated knowledge needed to implement the potentials of each of these approaches demand the conclusion that common research is needed and that cross-fertilization is "a must" and may obviously be expected from international (European, *in primis*) cooperation.

As to the implementation of the proposal, I suggest that we concentrate our efforts on three goals and prepare applications to: 1. **Human Capital and Mobility** for a European Network of Laboratories of Excellence on Applied Myology; 2. **Biotechnology II** for *ad hoc* studies in subtopics, but as part of a general effort to support Applied Myology; 3. **TEMPUS II** for a Slovenian and/or Polish program for the Teaching of Applied Myology to both pre- and post-docs as part of a more general effort to establish a Curriculum in Biomedical Sciences. Of course, this would produce as a by-product Curricula for the European counterparts. For this last goal the large majority, if not all, the participants to the EC CA HEART are needed to develop the Cardiac Assistance topic and all the readers of BAM to develop the overall curriculum. Several Institutions are open to participate to the proposal, but your interest and cooperation is essential, and so let me hope that you would take seriously the potentials we may exploit in a common effort.

We have six months to prepare the applications, then I am looking forward to your earliest replay (by fax +39 49 8286576) suggesting either subtopics or new goals.

Sincerely,



Ugo Carraro

Co-Organizer of The European Network of Applied Myology

Basic and Applied Myology

Perspectives for the 90's

Edited by Ugo Carraro and Stanley Salmons

Published by UNIPRESS Padova (Italy)

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

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

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Please enter an order for BAM: Perspectives for the 90's.

Name..... Position
Organization.....
Address.....
.....

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).

MANUSCRIPT SUBMISSION

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:

J.A. Faulkner, Institute of Gerontology, Univ. Michigan, Room 972-974, 300 North Ingalls, Ann Arbor, MI 48109-2007, USA, fax 001-313-936 2116

G. Freilinger, Dept. of Plastic & Reconstr. Surgery, 2nd Surgical University Clinic, Spitalgasse 23, A-1090 Vienna, Austria, fax Austria-222-42522640

J. Gergely, Muscle Dept. BBRI, 20 Stanford street, Boston, Ma 02114 USA, fax 001-617-5236649

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

Four high-quality copies of the manuscript (1 original and 3 copies) and 4 complete sets of figures should be submitted, accompanied by: i) a cover letter (including the name, address, and phone and FAX numbers of the author to whom correspondence should be sent); ii) written permission of author(s) and publisher(s) to use any published material; iii) releases signed by patient(s) or guardian(s) for any recognizable patient photographs; iiiii) for experiments on animals, indicate whether the institution's or the National Research Council's guide for the care and use of laboratory animals was followed; iiiiii) names of potential referees and their addresses as well as any request that specific individuals not be invited to review.

Exceptionally, Authors may submit one original and two copies with three sets of figures. The Journal encourages authors to submit floppy disks of accepted articles. Do not submit your disk until your paper has been accepted, and make sure that the file on the disk has been updated to incorporate all revisions.

Files should be in MS-DOS WORD (release 5 or earlier), WORD Perfect 5 or WORD for WINDOWS. They should be formatted single-space, left margin at zero, ragged right, no hyphenation, and automatic wordwrap to avoid hard returns within paragraphs. Macintosh files should be converted in MS-DOS if possible. Send your disk with a cover letter that specifies manuscript number, operating system, and software used to the Editor-in-Chief.

Copyright. The publication agreement should be signed by all authors.

MANUSCRIPT PREPARATION

Typing. Use double-spacing throughout the text, tables, figure legends, and references. Leave margins of at least 2.5 cm. Put your name on each page and number the pages starting with the title page.

Titles. Titles should be short, specific, and amenable to indexing.

Authors. Name, (initials for additional names) and surname of each author. Please indicate name and address of author to whom correspondence, proofs, and requests for reprints should be sent.

Abstracts. These should have no more than 200 words for a main or review article and 50 words for communications. The abstract should state the purpose of the study, basic procedures, most important results, principal conclusions. All non-standard abbreviations should be spelled out the first time they are mentioned.

Key Words. The authors should provide 3-8 (usually 5) key words below the abstract page pertaining to all major points of their contribution.

References. Main and Review Articles: Type references in alphabetical order and number them accordingly. Identify references in the text, tables and legends by arabic numerals in (brackets). The following information should be included

i) all authors names (surnames followed by initials), ii) the title of the article, iii) the journal title abbreviated as it appears in the *Index Medicus* or spelled out if it is not listed there, iv) the date of publication, v) the volume number, and vi) inclusive page numbers. For books be sure to include the chapter title, chapter author(s), editor(s) of the book, title of the book (including volume or edition number), publisher's location and name, date of publication and appropriate page numbers.

Examples of the correct format are as follows:

for Main and Review Articles

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.

"Unpublished observations", "personal communications", and information that has been obtained from manuscripts "submitted for publication" but not yet accepted should not appear in the references but should be cited in brackets in the text. Unpublished observations should include the authors, the year, and should be accompanied by letters of permission from all individuals cited; quotations from manuscripts that have been submitted for publication should include the authors, the title of the manuscript and the date. Manuscripts that have been accepted for publication but have not yet published may appear in the references. Include the authors, manuscript title and name of journal, followed by "to be published" in brackets.

Tables. Type each table double-spaced on a separate sheet; do not submit tables as photographs. If the table must exceed one typewritten page, duplicate all headings on the second sheet. Very wide tables are difficult and expensive to typeset and should be avoided by breaking up into smaller tables. Number tables in the order in which they are cited in the text. Every table should have a title, and every column in the table, including the left-hand (stub) column, should have a heading. Define all abbreviations and indicate the units of measurement for all values. Do not change the unit of measure within a column. Organize the tables so that like data are read vertically, not horizontally. Do not use internal horizontal or vertical lines to separate sections.

Figures. Figures should be professionally drawn and photographed and should be submitted as glossy, high-contrast (black&white) photographs. Letters, numbers, and symbols should be large enough to remain legible when reduced for publication. Use a label on the back of each figure to indicate the first author's name, the article's running title and the top of the figure. Do not write directly on the back of the photographs. Arabic numerals should be used for figures and lower case italic letters for multiple parts of a single figure (e.g., Figs 1a and 2b). Printed illustrations must not exceed the journal page dimension (A4, cm 21x29.5). Illustrations composed of multiple pieces must be mounted on mounting board. Single-column figures must not exceed cm 8.5x22. Double-column figures must not exceed cm 17.5x22. When submitting figures at reproduction size indicate this on the back of the figure; if not, indicate desired percent reduction. In general micrographs and figures should not exceed one-half page. Figures and legends should fit on the same page.

Figure Legends. Legends should be typed double-spaced and numbered with Arabic numerals corresponding to the illustrations. When symbols, arrows, numbers or letters are used to identify parts of illustrations, each should be explained clearly in the legend. For photomicrographs, the internal scale markers should be given.

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Authors are responsible for the scientific content of their article.