



EMC2009 12th-16th September 2009 at Nouveau Siècle - Lille - France

General Informations and Final Programme

GENERAL INFORMATIONS

Arrival at EMC2009

See our website for advice on how to get to Lille and to the Conference center "Nouveau Siècle". Registration opens at 17.00 in Nouveau Siècle and there will be a reception with wine, bier and canapés from 18.30 to 21.00 (first floor).

Conference registration and information

The registration desk will be located on the first floor of Nouveau Siècle for the provision of conference material and general information.

Oral and poster sessions

All oral sessions will be held in the Québec room (Salle Québec, first floor). Speakers of one session should contact the technician at the preceding session. Powerpoint presentations can be given using either a personal laptop or the lecture hall computer (PC running Microsoft Office 2007) via a USB memory stick or CD. Oral presentations will be 30 minutes (25 minutes talk + 5 minutes questions) for chairs and 15 minutes (12 minutes talk + 3 minutes questions) for those selected from submitted abstracts. We ask all chairs and speakers to ensure that the length of each presentation does not exceed the allocated time.

Posters (<150cm High and 90 cm Wide) may be displayed during all the congress duration from Sunday 13th until Wednesday 16th (10.00) in rooms F and G (first floor). The number in the top left hand corner of the poster board corresponds to the abstract number.

Three specific poster sessions (on Monday 14th and Tuesday 15th) will be organized. Authors of posters in these specific sessions are requested to be present at their poster to answer questions on the day of the corresponding session.

Monday 14th September : 14.00-15.15 Posters in Sessions I, II, III and IV

Tuesday 15th September : 11.00-12.45 Posters in Sessions V, VI, VII and VIII

Tuesday 15th September : 14.00-15.15 Posters in Sessions IX, X and XI

Abstracts from presentations at the conference will be published in the Journal of Muscle Research and Motility. A signature from one of the authors is required on the master copy kept at the registration desk.

A competition for Young investigator prizes will be organized.

Exhibitors

Exhibitors will present trade stands in the first floor (bar and room V) for the duration of the meeting.

Coffee/tea breaks

These breaks will be taken at the allocated times in bar and room V (first floor).

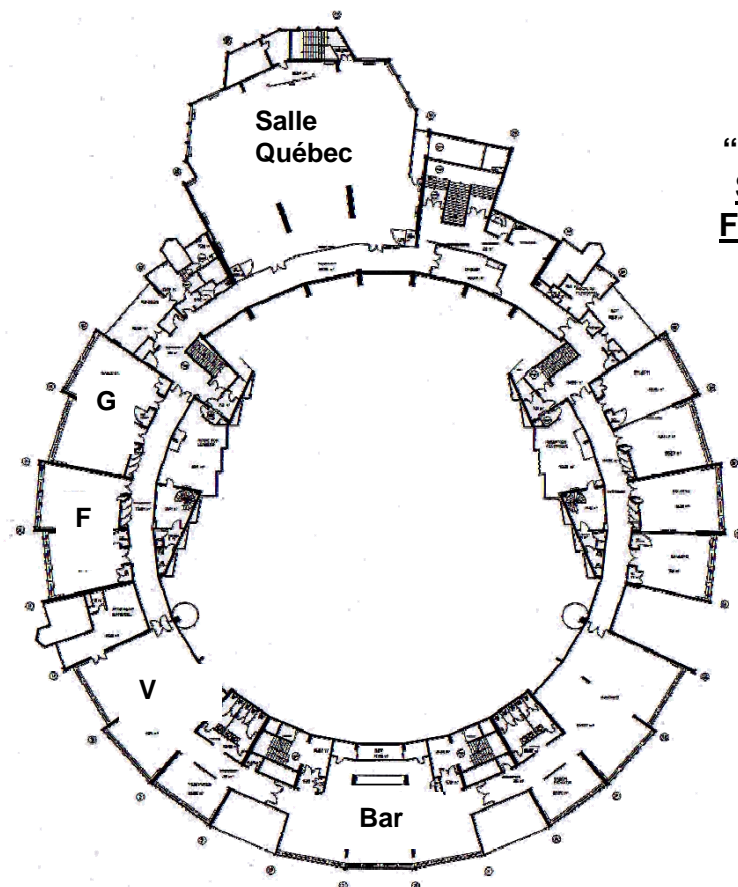
Lunch

Lunch will be served in ground level (Nouveau Siècle restaurant) between 12.45 and 14.15 on each day except Wednesday.

Dinner

The Gala Dinner on Monday 14th September will be served in Hotel Alliance “Couvent des Minimes” at 20.30, preceded by a reception in “Mairie de Lille” from 19.00 to 20.00.

Website: <http://www.lilleemc2009.univ-lille1.fr/>



**“Nouveau
Siècle”
First floor**

FINAL PROGRAMME

Saturday 12th September

17.00-21.00 REGISTRATION (first floor)

18.30-21.00 WELCOME RECEPTION (first floor)

Sunday 13th September

Opening of the scientific session

08.30 Welcome : B. Bastide and L. Stevens

Session I : Actin-myosin interactions

Chairs: B. Brenner and M. Geeves

08.45-9.15 B. Brenner, Medical School Hannover, Hannover, Germany.

"Compliance of the actin myosin interactions: structural basis and modulation by mutations and heavy chain isoforms" (abstract # 1.1)

09.15-09.45 M. Geeves, University of Kent, Canterbury, UK.

"Actin myosin interactions for human myosin II isoforms" (abstract # 1.2)

09.45-10.00 Single myofibrillar mechanics studied with sinusoidal length changes during maximal Ca²⁺ activation. Iorga B., Stehle R., Pfitzer G., Kawai M. (abstract # 1.2)

10.00-10.15 Structural model of a new actin-myosin interaction which is responsible for the actin activation of the myosin ATPase. Yang Z., Malnasi-Csizmadia A. (abstract # 1.3)

10.15-10.30 Kinetics of two single point mutants of drosophila myosin S1. BloeminkL M.J., Dambacher C.M., Milkanil G., Geeves M.A., Bernstein S.I. (abstract # 1.4)

10.30-11.00 COFFEE/TEA BREAK AND EXHIBITOR VIEWING

Session II : Muscle mechanics and energetics

Chairs: P. De Tombe and M. Regnier

11.00-11.30 P. De Tombe, University of Illinois, Chicago, USA.

"Myofilament length dependent activation" (abstract # 2.1)

11.30-12.00 M. Regnier, University of Washington, Seattle, USA.
"Engineering Troponin C for Basic and Applied Research" (abstract # 2.2)

12.00-12.15 Intense binding of human ALC-1 to IQ1 of cardiac myosin depends on the cis-inhibitory effect of IQ2 and provides a mechanism for its positive inotropic activity. Petzhold D., Lossie J., Behlke J., Keller S., Haase H., Morano I. (abstract # 2.3)

12.15-12.30 How should muscle power be calculated? Munkvik M., Lunde P.K., Sejersted O.M. (abstract # 2.4)

12.30-12.45 Investigation of the patho-biology of *MYH7* myopathy mutations. Wallefeld W., Nowak K., Ingley E., Stanley W., Bond C., Laing N. (abstract # 2.5)

12.45-14.15 LUNCH

Session III : Cytoskeleton

Chairs: W. Linke and E. Ehler

14.15-14.45 W. Linke, University of Münster, Münster, Germany.
"I-band titin signalling in muscle cells" (abstract # 3.1)

14.45-15.15 E. Ehler, King's College, London, UK.
"Cytoskeletal proteins in myofibril assembly and maintenance" (abstract # 3.2)

15.15-15.30 Ponsin interacts with Nck1 and Nck2: implications for a role in cytoskeletal remodelling during skeletal muscle differentiation and regeneration. Gehmlich K., Hayess K., Legler C., Haebel S., Van der Ven P., Ehler E., Fuerst D.O. (abstract # 3.3)

15.30-15.45 Rods composition and actin dynamic behavior in inherited myopathies. Vandebrouck A., Domazetovska A., Mokbel N., Cooper S.R., Ilkovski B., North KN. (abstract # 3.4)

15.45-16.00 Thin filament length dysregulation contributes to muscle weakness in nemaline myopathy patients with nebulin deficiency. Ottenheijm C., Witt C., Stienen G., Labeit S., Beggs A., Granzier H. (abstract # 3.5)

16.00-16.30 COFFEE/TEA BREAK AND EXHIBITOR VIEWING

Session IV : Smooth muscle and non-muscle systems

Chairs: G. Pfitzer and P. Pacaud

16.30-17.00 P. Pacaud, University of Nantes, Nantes, France.

“Rho GEFs in hypertension” (abstract # 4.1)

17.00-17.30 G. Pfitzer, University of Cologne, Köln, Germany.

“Mechanisms of cyclic nucleotide induced activation of smooth muscle myosin light chain phosphatase (SMPP-1M)” (abstract # 4.2)

17.30-17.45 LZ MYPT1 expression is regulated by a p42/44 MAPK signaling pathway. Ustunel C., Brozovich F. V. (abstract # 4.3)

17.45-18.00 A class-specific structural adaptation of the switch-2 loop enables rapid processive translocation of myosin 5a. Nagy N., Sakamoto T., Takacs B., Gyimesi M., Sellers J.R., Kovacs M. (abstract # 4.4)

18.00-18.15 Amebin, a novel actin-bundling protein inhibiting acto-myosin ATPase activity and involved in *Amoeba proteus* migration. An ancestor of caldesmon? Jozwiak J., Rzhepetskiy Y., Sobczak M., Kocik E., Skorzewski R., Moraczewska J., Klopocka W., Redowicz M.J. (abstract # 4.5)

Monday 14th September

Session V : Cardiac muscle

Chairs: J-P. Jin and A. Lacampagne

08.45-09.15 J-P. Jin, Wayne State University School of Medicine, Detroit, USA.

“Troponin isoforms and posttranslational modification” (abstract # 5.1)

09.15-09.45 A. Lacampagne, Univeristé de Montpellier, Montpellier, France.

“Defective RyR2 channels trigger ventricular arrhythmias in Duchenne Muscular Dystrophy” (abstract # 5.2)

09.45-10.00 Functional studies on mutations in desmosomal cadherins and their implications for cardiomyopathies. Gehmlich K., Peskett E., Evans A., Ehler E., Syrris P., Mc Kenna W.J. (abstract # 5.3)

10.00-10.15 Comparative effects of the N-terminal domains of murine and human cardiac myosin binding protein-c. Shaffer J.F., Wong P., Bezold K.L., Harris S.P. (abstract # 5.4)

10.15-10.30 Cardiomyocyte contractile function in hypertrophic and dilated cardiomyopathy. Van Dijk S.J., Tebeest A, Holewijn R., Dos Remedios C., Stienen G.J.M., Van Der Velden J. (abstract # 5.5)

10.30-11.00 COFFEE/TEA BREAK AND EXHIBITOR VIEWING

Session VI : Ion channels and M-A-P

Chairs: H. Brinkmeier and C. Cognard

11.00-11.30 H. Brinkmeier, University of Greifswald, Karlsburg, Deutschland.

“Gene expression, localization and function of TRP channels in mouse skeletal muscle” (abstract # 6.1)

11.30-12.00 B. Constantin, University of Poitiers, Poitiers, France.

“Regulation of TRPC1 channels by scaffolding proteins in skeletal muscle” (abstract # 6.2)

12.00-12.15 *Abstract # 6.3* TRPC1 operates as a sarcoplasmic reticulum Ca²⁺ leak channel in skeletal muscle. Berbey C., Weiss N., Legrand C., Allard B.

12.15-12.30 *Abstract # 6.4* Specific ryanodine receptor inhibition by NF676. Hohenegger M., Szegedi C., Sieczkowski E., Wolner L., Weigl L.

12.30-12.45 *Abstract # 6.5* Mapping the ryanodine receptors pore region using the substituted cysteine accessibility method. Meli A.C., Zalk R., Wronska A., Karlin A., Marks A.R.

12.45-14.00 LUNCH

14.00-15.15 POSTER SESSION 1 (presenters of posters in Sessions I, II, III and IV are to be present)

15.15-16.00 EMC BUSINESS MEETING

16.00-16.30 COFFEE/TEA BREAK AND EXHIBITOR VIEWING

Session VII : EC coupling

Chairs: C. Cadiou and F. Protasi

16.30-17.00 C. Cadiou, University of Nantes, Nantes, France.

“Calcium homeostasis in mdx striated muscles and pharmacological approaches” (abstract # 7.1)

17.00-17.30 F. Protasi, University G. d’Annunzio, Chieti, Italy.

“Clues to the formation of cores in a mouse model of Malignant Hyperthermia” (abstract # 7.2)

17.30-17.45 The importance of SERCA2 in skeletal muscle fatigue. Sjaland C., Munkvik M., Verburg E., Christensen G., Sejersted O.M., Lunde P.K., Andersson K.B. *(abstract # 7.3)*

17.45-18.00 Surf-4-dependent targeting of calsequestrin to sarcoplasmic reticulum during skeletal muscle development. Valle G., Nori A., Hauri H.P., Volpe P. (*abstract # 7.4*)

18.00-18.15 Molecular pathogenesis of Nemaline Myopathy in patients with a novel deletion in TPM2. Mokbel N., Memo M., Ilkovski B., Vandebrouck A., Nykanen M., Menard D., Marcorelles P., Echaniz-Laguna A., Monnier N., Marston S., Clarke N.F., North K.N. (*abstract # 7.5*)

19.00-20.00 « APERITIF » in Mairie de Lille

20.30 EMC 2009 GALA DINNER IN « HOTEL ALLIANCE - COUVENT DES MINIMES »

Tuesday 15th September

Session VIII : Muscle plasticity

Chairs: D. Desplanches and M. Sandri

08.45-09.15 D. Desplanches, University of Lyon 1, Villeurbanne, France.
"Oxidative stress and proteolytic pathways in muscle atrophy" (*abstract # 8.1*)

09.15-09.45 M. Sandri, University of Padova, Padova, Italy.
"Signalling pathways controlling muscle growth and muscle loss" (*abstract # 8.2*)

09.45-10.00 Resveratrol a nutritional supplement to maintain oxidative, contractile character and metabolite profile skeletal muscle facing inactivity. Momken I., Picquet F., Stevens L., Habold C., Zhan S., Falempin M., Mounier Y., Blanc S. (*abstract # 8.3*)

10.00-10.15 Are myonuclei forever ? Bruusgaard J.C., Johansen I.B., Egener I.M., Gundersen K. (*abstract # 8.4*)

10.15-10.30 Effects of long-term inhibition of myostatin on the soleus muscle under an atrophic condition. Yoshioka T., Goto K., Ohno Y., Hashimoto N., Sugiura T., Ohira Y. (*abstract # 8.5*)

10.30-10.50 COFFEE/TEA BREAK AND EXHIBITOR VIEWING

10.50-12.30 POSTER SESSION 2 (presenters of posters in Sessions V, VI, VII and VIII are to be present)

12.30-13.45 LUNCH

14.00-15.15 POSTER SESSION 3 (presenters of posters in Sessions IX, X and XI are to be present)

Session IX : Muscle growth and determination 1

Chairs: K. Jagla and J. Sparrow

15.00-15.30 K.Jagla, University of Clermont, Clermont-Ferrand, France.

"How the diversity of muscle fibers is acquired: a lesson from Drosophila" (abstract # 9.1)

15.30-16.00 J. Sparrow, University of York, York, UK.

"Genetic approaches to sarcomere development" (abstract # 9.2)

16.00-16.15 COFFEE/TEA BREAK AND EXHIBITOR VIEWING

Session IX : Muscle growth and determination 2

Chairs: K. Jagla and J. Sparrow

16.15-16.30 Human fetal CD133+ muscle cells expressing perycrite markers repair dystrophic muscle tissue. Farini A., Belicchi M., Meregalli M., Parolini D., Razini P., Erratico S., Torrente Y. (abstract # 9.3)

16.30-16.45 Myopalladin plays an important role in skeletal muscle growth and function. Yamamoto D.L., Bremner S.N., Zhang J., Catalucci D., Knöll R., Lieber R.L., Chen J., Bang M.L. (abstract # 9.4)

16.45-17.00 The MuRF family of ubiquitin ligases in cardiac development and remodelling. Perera S., Mankoo B., Gautel M. (abstract # 9.5)

17.30-19.30 SOCIAL EVENT

Wednesday 16th September

Session X: Muscle genomics and proteomics

Chairs: R. Bottinelli and K. Ohlendieck

8.45-9.15 R. Bottinelli, University of Pavia, Pavia, Italia.

"Skeletal muscle adaptations to disuse atrophy: a proteomic approach" (abstract # 10.1, see 8.15)

9.15-9.45 K. Ohlendieck, National University of Ireland, Maynooth, County Kildare, Ireland.

"Proteomic profiling of muscular dystrophy" (abstract # 10.2)

09.45-10.00 Analysis of the nebulin gene by multiplex-ligation dependent probe amplification (MLPA) and methylation-specific MLPA . Lunkka-Hytönen M., Lehtokari V.L., Wallgren-Pettersson C., Pelin K. (abstract # 10.3)

10.00-10.15 A genomic approach to study the gene expression of skeletal muscles at single-fibre level. Chemello. F., Bean C., Cancellara P., Laveder P., Reggiani C., Lanfranchi G. (*abstract # 10.4*)

10.15-10.30 Effect of an increase of O-GlcNAc level on calcium activation properties of skinned fibers isolated from soleus muscle. Cieniewski-Bernard C., Montel V., Stevens L., Bozzo C., Bastide B. (*abstract # 10.5*)

10.30-11.00 COFFEE/TEA BREAK AND EXHIBITOR VIEWING

Session XI : Therapeutic approaches of muscle disease

Chairs: L. Garcia and M. Sampaolesi

11.00-11.30 L. Garcia, Institut de Myologie, Paris, France (*abstract # 11.1*)
"Dystrophin rescue by using exon skipping and/or trans-splicing approaches"

11.30-12.00 M. Sampaolesi, Institute of Human Anatomy, Pavia, Italy.
"Local activation or transplantation of progenitor cells in skeletal muscle diseases"
(*abstract # 11.2*)

12.00-12.15 Chronic Inhibition of Activin Receptor Type IIB Signaling Improves Strength and Function of Dystrophic Muscle. Lachey J.L., Pullen A.E., Bogdanovich S., Pistilli E.E., Sehra J. (*abstract # 11.3*)

12.15-12.30 Cell Therapy of Muscular Dystrophy with Engineered CD133+ Cells. Meregalli M., Belicchi M., Farini A., Maciotta S., Razini P., Parolini D., Da Silva Bizarro J.C., Garcia L., Bresolin N., Torrente Y. (*abstract # 11.4*)

12.30-12.45 Effects of the pro-inflammatory cytokine interleukin-1 on the Ca²⁺ release properties of the sarcoplasmic reticulum in skeletal muscle: role in critical illness myopathies. Yi B., Edwards J., Weber C., Cully T., Launikonis B.S., Friedrich O. (*abstract # 11.5*)

12.45 CLOSING REMARKS: B. BASTIDE AND L. STEVENS

End of the meeting !!!!