

# IAGG's GLOBAL RESEARCH NETWORK ON AGEING

UNDER THE AUSPICES OF



IAGG's GLOBAL RESEARCH  
NETWORK ON AGEING



## ICSR 2011 International Conference on Sarcopenia Research

Wednesday 8<sup>th</sup> & Thursday 9<sup>th</sup> June, 2011 Toulouse, France

Congress Venue  
**Hôtel-Dieu Saint-Jacques**  
**Toulouse, France**

2, rue viguerie 31000 Toulouse

Registration

[www.icsr-sarcopenia.com](http://www.icsr-sarcopenia.com)



## Preliminary Program

Secretary & Contact CELSIUS: [f.soula@celsius-net.com](mailto:f.soula@celsius-net.com)

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12.00 am-7.00 pm :

## Poster exhibitions

1.30 pm - 2.00 pm :

## Introduction :

*B Vellas IAGG Président (France), M Pahor (USA)*

2.00 pm - 3.00 pm :

## Symposium : Definition of Sarcopenia

*Chairmen : J Morley (USA) - Partick RITZ (France)*

### • Sarcopenia with Mobility Limitation:

**An update on the SCWD definition and biomarkers - An International Perspective:**

*J Morley (USA)*

### • Defining Sarcopenia: The Impact of Different Diagnostic Criteria on the Prevalence of Sarcopenia in a Large Middle Aged Cohort

*A.Y. Bijlsma, C.G.M. Meskers, C.H.Y. Ling, S.E. Kurrle, I.D. Camero,; R.G.J. Westendorp, A.B. Maier (Leiden, The Netherlands)*

### • Report of the European Working Group on Sarcopenia in Older People,

*J.-P. Michel, J.-P. Baeyens, J. Bauer, Y. Boirie, T. Cederholm, F. Landi, F.C. Martin, Y. Rolland, S.M. Schneider, E. Topinkoj, M. Vandewoude, M. Zamboni, A.J. Cruz-Jentoft (Genève, Switzerland)*

3.00 pm -4.00 pm:

## Symposium : Imaging and biomarkers for Sarcopenia

*Chairmen : R. Fielding (USA)- M. Cesari France)*

### • Use of MRI/ CT in sarcopenia trials.

*R. Fielding (USA)*

### • Cut-of for DEXA muscle mass in Sarcopenia trials

*S. Cummings (USA)*

### •Muscle biomarkers

*M. Hellerstein (USA)*

4.00 pm - 4.30 pm :

## coffee break and poster sessions

4.30 pm - 5.30 pm :

## Animal models / molecular mechanisms

*Chairmen : A. Parini (France) - A. Venema (Netherlands)*

### • Analysis of Molecular Mechanisms Involved in Age-Related Muscle Mass Decrease :

### A Study on Biopsies of Muscle Vastus Lateralis from Patients of Different Age

*M.Conte, C. Lanzarini, L. Bucci, G. Trisolino, G. Bracci, E. Martucci, M. Capri, S. Salvioli, M.V. Narici, G. Butler-Browne (Bologne, Italy)*

### • Accelerated Skeletal Muscle Aging is a Molecular Signature in OPMD

*A. Venema, Y. Anvar, P.A.C. Hoen, S. van der Maarel, V. Raz (Leiden, The Netherlands)*

### • Animal Model for Agrin-Dependent Sarcopenia : The SARCO Mouse

*J.W. Vrijbloed, S. Hettwer, S. Kucsera, R. G. Fariello (Schlieren, Switzerland)*

5.30 pm - 6.30 pm

## Clinical studies

*Chairmen : Y.Rolland(France) - J. Li (Taiwan)*

### • Temporal Relationship between Cognitive Performance and Muscle Strength in oldest old People

*D.G. Taekema, C.H.Y. Ling, S. Kurrle, I.D. Cameron, C.G. Meskers, G.J. Blauw, R.G.J. Westendorp, A.J.M. de Craen, A.B. Maier (Leiden, The Netherlands)*

### • The Prognostic Value of Muscle Strength in Sporadic and Familial Longevity

*C.H.Y. Ling, D. Taekema, A.J.M. de Craen, R.G.J. Westendorp, A.B. Maier (Leiden, The Netherlands)*

### • The effect of Disuse on the Electrical Properties of Muscle: Implications for Using Electrical Impedance Techniques in the Evaluation of Sarcopenia.

*J. Li, M. Sung, R. Ellman, J. Spatz, A. Cloutier, M. Bouxsein, S. Rutkove (Brookline, USA)*

### • Sarcopenia in a Taiwanese Metropolitan Elderly Population

*T.-C. Li, C.-S. Liu, N.-H. Meng, C.-H. Lin, C.-K. Chang, W.-Y. Lin, C.-I. Li, C.-W. Yang (Taichung, Taiwan)*

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8.00 am - 9.00 am :

## **Intervention studies / therapeutic trials**

Chairmen : *S. Andrieu (France) - M. Pahor (USA)*

### • **Nutritional Support & Sarcopenia:**

**By Contrast to Whey or High Protein Diets, the Lack of Recovery of Muscle Mass during Aging Cannot Be Overcome by a Dietary Free Leucine Supplementation after Prolonged Immobilization**

*H. Magne, I. Savary-Auzeloux, C. Sornet, C. Migné, L. Combaret, D. Dardevet (Saint-Genès-Champanelle, France)*

### • **Chronic Dietary Omega 3 Intake Improves Muscle Mass in Aged Rat by Sensitizing Muscle Protein Synthesis to Insulin but Not to Amino Acids**

*I. Savary-Auzeloux, I. Mothe-Satney, C. Sorne, C. Gladine, B. Morio, S. Polakof, B. Comt, D. Dardevet (Saint-Genès-Champanelle, France)*

### • **Effects of a Combined Nutritional and Resistance Exercise Intervention on Body Composition, Muscular Strength, Physical Function and Quality of Life in Independently Living Elderly Icelanders**

*A. Ramel, O.G. Geirsdottir, A. Arnarson, K. Briem, P.V. Jonsson, L. Thorsdottir (Reykjavik, Iceland)*

### • **Long Term Dietary Leucine Excess in Old Rats Alters Insulin Signaling Pathways in Adipose Tissue but Not in Muscle; It Does Not Lead to Overall Glucose Intolerance**

*G. Zeanandin, Mi. Balage, C. Sornet, J. Dupont, S.M. Schneider, I. Mothe-Satney, D. Dardevet (Saint-Genès-Champanelle, France)*

9 am - 10 am :

## **Clinical studies**

Chairmen : *M. Ferry (France) - M. Narici (UK)*

### • **Loss of Muscle Strength, Mass (Sarcopenia) and Quality (Specific Force) and Its Relationship with Physical Disability and Functional Limitation- the CHAMP Study**

*N.N. Hairi, R.G. Cumming, V. Naganathan, D.J. Handelsman, D.G. Le Couteur, H. Creasey, L.M. Waite, M.J. Seibel, P. N. Sambrook (Kuala Lumpur, Malaysia)*

### • **Myostatin Serum Concentrations in Men "Age-Related Changes and Correlates"**

## **the STRAMBO Study**

*P. Szulc, C. Goettsch, M. Schoppet, L.C. Hofbauer, R. Chapurlat (Lyon, France)*

### • **Low Muscle Mass and Current Smoking Are the Main Determinants of Aortic Calcifications Progression in Older Men the Prospective MINOS Study**

*P. Szulc, R. Chapurlat (Lyon, France)*

### • **Changes in Muscle Architecture with Old Age : A Signature of Sarcopenia**

*M.V. Narici, G. Trisolino, G. Bracci, O.R. Seynnes, E.L. Campbell, M. Conte, C. Lanzarini, L. Bucci, M. Capri, S. Salvioli, J. McPhee, G. Butler-Browne, C. Franceschi (Manchester, United Kingdom)*

### • **How Far Is It Possible to Counteract Sarcopenia? The Birkebeiner Aging Study of Older Cross-Country Skiers**

*A.H. Ranhoff, M. Myrstad (Bergen, Norway)*

10.00 am-10.30 am :

## **Coffee break and poster session**

10.30 am -11.30 am :

## **Symposium : Methodological aspect for Therapeutic trials**

Chairmen : *B Evans (USA) - B.Vellas (France)*

### • **Is slow gait speed a good target population or end point**

*M Cesari (Toulouse, France)*

### • **Design issues for therapeutic trials**

*B Evans (USA)*

### • **Design issues for non pharmacological trials**

*M Pahor (USA)*

11.30 am -12.30 am :

## **Symposium: Assesment of functional status in elderly:**

### **A new muscle quality index**

### • **Muscle quality: assesment of muscle mass, strength and power**

*M Aubertin (Canada)*

### • **Modulation of muscle metabolism in elderly: role of high protein. essential amino acids like leucine**

*Y Boirie (France)*

### • **Biomarkers in sarcopenia: an overview**

*Y Rolland (France)*

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12.30 am -1.30 pm :

## Lunch and poster session

1.30 pm - 2.45 pm :

## Animal studies / physiopathology

Chairmen :

*R. Rizzoli (Switzerland) - F. Nourhashémi (France)*

- **An Isocaloric Low Protein Diet in Rodents : An Experimental Model of Frailty and/or Sarcopenia**

*R. Rizzoli, P.Ammann (Geneva, Switzerland)*

- **Denervation Causes Myosin Heavy Chain Co-Expression and Myofiber Atrophy in Senescent Rat Gastrocnemius Muscle**

*R. Hepple, S.L. Rowan, F.M. Purves-Smith, K. Rygiel, N.M. Solbak, D.M. Turnbull (Montréal, Canada)*

- **Myosteatosis and Myofibrosis: Relationship with Aging, Inflammation and Insulin Resistance**

*E. Zoico, A. Rossi, F. Corzato, D. Oliosio, C. Bambace, F. Fantin, M. Zamboni (Verona, Italy)*

- **Neural Compensation in Sarcopenia**

*C.G.M. Meskers, A.B. Maier, A.C. Schouten, J.H. Arendzen, J.H. de Groot (Leiden, The Netherlands)*

2.45 pm -4.00 pm :

## Symposium on New therapies

Chairmen : *J.M. Cedarbaum (USA)*

*A Raynaud-Simon(France)*

- **Selective Activators of Fast Skeletal Muscle Troponin: A Novel Approach to Treatment of Neuromuscular Disorders**

*J.M. Cedarbaum, M.M. Chen, J. Lee, D. Morgans, A. Wolff, F. Malik (San Francisco, USA)*

- **Is Glutamine the Cornerstone of Sarcopenia in Very Old Individuals?**

*D. Meynial-Denis, A.M. Beaufrère, Luc Cynober, P. Patureau Mirand (Clermont-Ferrand, France)*

- **Agrin-Dependent Sarcopenia**

*J.W. Vrijbloed, S. Hettwer, A. Shaheen, P. Dahinden, R. G. Fariello (Schlieren, Switzerland)*

- **Reduced Calorie Weight Loss, Exercise, Vitamin D and Lean Mass in Postmenopausal Women**

*A. McTiernan C. Mason, C. Duggan, L. Xiao, C.Y. Wang (Seattle, USA)*

4.00 pm - 4.30 pm

## coffee break and poster sessions

4.30 pm - 6.30 pm :

## clinical studies

Chairmen : *G.Abellan Van Kan (France)*

*A.H.M Kilgour (UK)*

- **Sarcopenia in a Group of Mexican Elders**

*L.M. Gutiérrez-Robledo, V.E. Arango-Lopera, M. Ulises Pérez-Zepeda (Mexico City, Mexico)*

- **Is Posterior Neck Muscle Cross Sectional Area as Seen on MRI Brain Scans, a Good Indicator of General Sarcopenia?**

*A.H.M. Kilgour, C. Gray, S. Semple, A. Pattie, D. Subedi, J.M. Wardlaw, J.M. Starr (Edinburgh, United Kingdom)*

- **Routine Diagnostic Evaluation of Elderly Patients: A Novel Geriatric Assessment**

*C.G.M. Meskers, M. Stijntjes, J.H. Pasma, C.K. Jurgens, G.J. Blauw, A.B. Maier (Leiden, The Netherlands)*

- **Is Functional Capacity Related to the Daily Amount of Steps in Postmenopausal Women?**

*S. Barbat-Artigas, S. Plouffe, S. Dupontgand, M. Aubertin-Leheudre (Montréal, Canada)*

- **Gait Speed and Undernutrition**

*G. Abellan van Kan, Y. Rolland, M. Cesari, M. Houles, J. Bauer, B. Vellas (Toulouse, France)*

- **The Conceptualization and Utility of Frailty for Older Populations in Low and Middle Income Countries - Findings from the 10/66 Dementia Research Group Prevalence and Incidence Waves**

*A.T. Jotheeswaran, R. Sousa, C.P. Ferri, M. Dewey, D. Acosta, M. Guerra, Y. Huang, J.J. Llibre de Rodriguez, Aquiles Salas, A.L. Sosa, J.D Williams, M.J. Prince (London, United Kingdom)*

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## POSTERS

- N°1: Sarcopenia in the Chinese People: Epidemiology, Mechanisms, Manifestations, and Therapeutic Interventions**  
*J. Wang, Z. Chen (Beijing, China)*
- N°2 Sarcopenic Obesity: Correlation with Functional Limitation and Psychological Status in a Metabolic-Nutritional and Psychological Rehabilitation Unit**  
*S. Tempera, L.M. Ricciardi, A. Guerra, C. Savina, C. Coletti, M. Paolini, L. Scavone, B. Neri, M.R. De Felice, L.M. Donini (Rome, Italy)*
- N°3 Time-Course Alteration of Gene Expression Profiles Underlying Denervated Skeletal Muscular Atrophy in Rats**  
*Y. Satomi, A. Tanokura, K. Horie, E. Ochiai, K. Takagi, K. Yamana*
- N°4 Grip Strength and Inflammatory Biomarkers as Indicators of Physical Performance in the Oldest Old: Some Results of the BELFRAIL Study (BFC80+)**  
*D. LeGrand (Bruxelles, Belgium)*
- N°5 Identification and Characterization of Community-Dwelling Elderly with Sarcopenia : A Study Protocol**  
*D.M. Mijnders, J.M.M. Meijers, R.J.G. Halfens, S. ter Borg, Y.C. Luiking, S. Verlaan, J.M.G.A. Schols (Maastricht, The Netherlands)*
- N°6 Vitamin D and Calcium Supplementation to Prevent Falls and Fractures of Residents of the Accommodation Establishment for Dependent Elderly (EHPAD) of Pontarlier : Professional Practices Assessment**  
*A. Bonnet, M. Degois, A. Grillo, E. Ngamba, O. Barrandon, F. Faivre, P. Pfitzenmeyer (Doubs, France)*
- N°7 Managing the Quality of Sleep among Elderly Patients Using the Pittsburgh Sleep Quality Index**  
*S. Rajaram, E. Cheah, Z. Dexin, N. Sidek, T.M. Hong, F. Fadillah, H. Hamid (Singapore)*
- N°8 Randomised Phase III Clinical Trial of a Combined Treatment with Carnitine + Celecoxib +/- Megestrol Acetate for Patients with Cancer-Related Anorexia/Cachexia Syndrome**  
*G. Mantovani (Cagliari, Italy)*
- N°9 Superoxide Anion Overproduction by NADPH Oxidase as a New Biomarker of Sarcopenia in Older Adults**  
*G. Baptista, A. Termet, F. Greslou, A.M. Dupuy, J.P. Cristol, C. Jeandel (Montpellier, France)*
- N°10 Modification of Proteins Involved in Key Cellular Pathways and Decreased Proteasome Activity Characterize Senescent Human Muscle Progenitor Cells**  
*M. Baraibar, J. Hyzewicz, A. Rogowska-Wresinska, R. Ladouce, P. Roepstorff, G. Butler-Browne, B. Friguet (Paris, France)*
- N°11 Assessment of Sarcopenia and Visceral Fat Accumulation A Case Description**  
*A.K.P. Kayano, M. Najas, J. Toniolo Neto (Sao Paulo, Brazil)*
- N°12 Muscle Proteome and Transcriptome during Aging of LOU/cjall Rats**  
*D. Delalande, I. Pic, M. Gueugneau, C. Coudy-Gandhillon, J. Alliot, A. Listrat, R. Taylor, D. Bechet (Aubière, France)*
- N°13 Effects of a Resistance Program, with Elastic Straps, on the Strength and Muscle Mass of Independent Elderly**  
*A.R.C. Ruzzarin (Caxias do Sul, Brazil)*
- N°14 Epidemiological Study Regarding the Frailty in an Elderly Sample with Cardiovascular and Dismetabolic Pathology**  
*D.E. Roditis, E. Lupeanu (Bucharest, Romania)*
- N°15 Reduced Lower Extremity Muscle Mass is an independent Risk Factor for Incidence of Falls**  
*Y. Tabara M. Igase, E. Uetani, T. Kido, N. Ochi, K. Kohara, T. Miki (Toon, Japan)*
- N°16 Sarcopenia and frailty in Brazilian elderly from the Sabe Survey: Health, Wellness and Aging**  
*L.A. Gobbo, L. Pires Corona, T. da Silva Alexandre, Y. Aparecida de Oliveira Duarte, M. Lacia Lebrao, M. de Fatima Nunes Marucci (Sao Paulo, Brazil)*
- N°17 Understanding and Control of Normal Ageing Can Help Us Better Withstand Natural Sarcopenia Not Connected with Disuse and/or Disease**  
*A.I. Khalyavkin (Moscow, Russia)*
- N°18 Nutritional Status and Wound Healing in Elderly Homebound Patients**  
*I. Persidsky (Long Beach, USA)*
- N°19 The Association between Functional Tests and Energy Expenditure of Weekly Physical Activity in Elderly : A Community Based Research in Taichung**  
*T.M. Lee, N.H. Meng, C.K. Chang, C.C. Lin, W.Y. Lin, T.L. Yu (Taichung, Taiwan)*
- N°20 Fatigue, Fatigability and Physical Frailty**  
*M. Viorel Zamfir, F. Matei, L. Mihai Covlescu (Bucharest, Romania)*
- N°21 Malnutrition in Nursing Home Residents and Its Association with Sarcopenia**  
*B. Saka, F. Tufan, G. Bahat Ark1, S. Ak, S. Engin, E. Kark, H.I. Azkaya, N. Yael, M. Akif Karan (Istanbul, Turkey)*
- N°22 The Role of Muscle Performance and Sensory Function in Balance Deficits: The BALROOM Project**  
*J.H. Pasma, A.B. Maier, C.G.M. Meskers, H. van der Kooij (Den Haag, The Netherlands)*
- N°23 Muscle Characteristics and Regenerative Potential in Patients with Chronic Systemic Inflammation**  
*K.G.M. Beenakker, B.J. Duijnsveld, V. Mouly, G. Butler-Browne, A.B. Maier (Leiden, The Netherlands)*
- N°24 Metabolic Syndrome Alters the Proportion and Morphology of Skeletal Myofibres in Elderly Men**  
*M. Gueugneau, C. Coudy-Gandhillon, B. Meunier, C. Barboiron, A. Listrat, L. Feasson, J.C. Barthelemy, B. Picard, D. Bechet (Saint Gènes Champanelle, France)*
- N°25 Degenerative Processes at the Neuromuscular Junction Involving the C-Terminal Agrin Fragment as a Cause for Sarcopenia**  
*M. Drey, J.M. Bauer, C.C. Sieber, P. Dahinden, R.G. Fariello, J.W. Vrijbloed (Nuremberg, Germany)*
- N°26 Role of Muscle Mass and Force-Velocity Characteristics of the Knee Extensors in Physical Frailty**  
*E. Van Roie, S.M. Verschuere, S. Boonen, A. Bogaerts, E. Kennis, W. Coudyzer, C. Delecluse (Leuven, Belgium)*
- N°27 Muscle CASSIHOP pilot study**  
*C. Dupuy (Toulouse - France)*
- N°28 Vitamin D intakes and muscle mass**  
*C. Dupuy (Toulouse - France)*
- N°29 Sarcopenia and nutritional status, anthropometric measurements and body composition in a group of Mexican elderly women**  
*Velázquez-Alva MC, Irigoyen-Camacho ME and Pedraza VE (Mexico City)*