

WED

CHECKING-IN

13H00-18H30

WED

OPENING CEREMONY

18H30-19H00

WED

Lecture #1

19H00-19H45

**Body composition in health, nutrition and sport:
The present in the context of the past.**

Robert M. Malina (USA)

WED

WELCOME DRINK

19H45-21H00

THU

CHECKING-IN

08H30-09H00

THU

Lecture #2

09H00-09H45

Fundamental human body composition-energy expenditure relations

Steven B. Heymsfield (USA)

THU

Symposium #1

09H45-11H15

Measuring changes in body composition – a challenge to validity and precision

Chair: Steven B. Heymsfield (USA)

1st talk

Measuring changes in body composition with weight loss and regain – a methodological challenge

Anja Bosy-Westphal (Germany)

2nd talk

Growth and nutrition: the role of body composition in pediatric age

Angelo Pietrobelli (Italy)

3rd talk

Validity of longitudinal measurement of body composition by advanced imaging

Wei Shen (USA)

Coffee break

11H15-11H45

THU

ORAL SESSION #1

11H45-13H00

Body composition and energy regulation

Chair: Klaas Westerterp (The Netherlands)

11H45-12H:00

Energy expenditure, energy balance and body composition over a season

Analiza M. Silva, Catarina N. Matias, Diana A. Santos, Diana Thomas, Steven B. Heymsfield, & Luis B. Sardinha (Portugal & USA)

12H00-12H15

Contributions of high-metabolic rate organ mass to resting energy expenditure in Tanner 1 children

Elizabeth M. Widen, Hye R. Yang, Sonia Gidwani, Kim Kelly, Patrick Kang, & Dympna Gallagher (USA)

12H15-12H30 **High metabolic rate organ mass provides additional information about REE not captured with measurements of fat and FFM before and after surgery-assisted weight loss**
Isaiah Janumala, John Thornton, Bret Goodpaster, Gladys Stain, Anita Courcoulas, Alfons Pomp, Susan Lin, & Dymrna Gallagher (USA)

12H30-12H45 **Impact of physical activity energy expenditure at moderate and vigorous intensity on total and abdominal obesity in youth**
Diana A. Santos, João P. Magalhães, Cláudia S. Minderico, & Luís B. Sardinha (Portugal)

12H45-13H00 **Impact of short-term controlled over- and underfeeding on the body weight and body composition**
Maryam Pourhassan, Janna Enderle, Lisa Schweitzer, Claus-Christian Glüer, & Manfred J. Müller (Germany)

LUNCH

13H00-13H45

THU

CHAIRMEN-LED POSTER SESSION #1
13H45-14H30

Chairs: Robert M. Malina (USA)
Timothy Ackland (Australia)
Wei Shen (USA)

The relationship between anthropometric measures, physical activity, and eating habits in female college freshmen upon entering college
Amanda A. Price (USA)

Total and visceral fat in chronic diseases
Angela Andreoli, Francesca Di Chio, Michelangelo Nasuto, Roberto Sorge, & Giuseppe Guglielmi (Italy)

Differentiation of sarcopenic phenotypes
Corinna Geisler, Maryam Pourhassan, Wernher Braun, Britta Schautz, Anja Bosy-Westphal, & Manfred J. Müller (Germany)

Lipid profile and percentage of body fat in active adolescents
Flaviani A. Papaléo, René Brenzikofer, & Denise V. Macedo (Brazil)

Interrelationship between growth, maturation, BMI status, overfat and cardiorespiratory fitness in Azorean adolescents aged 11-15 years
Manuel J. Coelho-e-Silva, António J. Figueiredo, João Valente-dos-Santos, Aristides Machado-Rodrigues, Raul Martins, Rute Santos, Enio V. Ronque, Edilson S. Cyrino, Rômulo A. Fernandes, & Robert M. Malina (Portugal, Brazil, & USA)

World Health Organization and Brazilian references based on body mass index for detecting excess body fatness in schoolchildren

Danielle B. Leal, Maria A. Assis, & Wolney L. Conde (Brazil)

Physical activity and bone mineral density of fracture-critical regions of proximal femur

Edgar Lopes, Vera Zymbal, Lurdes M. Rebocho, & Fátima Baptista (Portugal)

Longitudinal study of physical activity, body composition and trunk morphology effects on pelvic tilt from the second trimester of pregnancy to the postpartum period

Filomena Vieira, Ana F. Graça, Liliana Aguiar, Marco Branco, & Rita Santos-Rocha (Portugal)

Quick methods for determining body composition in diverse populations

Janet Kurzynske, Kelly Webber, Hazel Forsythe, & Monica Fowler (USA)

Measuring equine body composition using bioimpedance spectroscopy

Leigh C. Ward, Kimberley J. White, Wayne L. Bryden, & Judy A. Cawdell-Smith (Australia)

A photo-based approach for assessing body postures and their association with obesity

Ligaj Pradhan, Chengcui Zhang, Danielle K. Powell, David B. Allison, & Olivia Affuso (USA)

What predictive equations of body composition based on anthropometry are more accurate in older adults?

Maria A. Camina, Beatriz Mateo, & Maria P. Redondo (Spain)

Applicability of anthropometric measures for estimating whole-body skeletal muscle volume in prepubertal children

Megumi Ohta, Taishi Midorikawa, Yuki Hikiyama, Shizuo Sakamoto, Yasuo Kawakami, Hiroaki Kanehisa, & Tetsuo Fukunaga (Japan)

CAAFE, a website to assess weight status, diet and physical activity in schoolchildren: Formative Research Results

Maria A. Assis, Filipe Costa, Patricia Di Pietro, Maria C. Calvo, Sergio F. Freitas, Emil Kupek, Francilene K. Vieira, Vanessa Davies, Raquel Engel, Cristine Gabriel, & Camilie Schmoelz (Brazil)

Improvement of reference values of the BMI for classification of nutritional status in a Brazilian sample

Mirele S. Mialich, Edson Z. Martinez, & Alceu Jordão Junior (Brazil)

Dual energy x-ray absorptiometry based evaluation of elite Gaelic athletic association players

Robert Davies, Katie Hughes, Clodagh Toomey, Will McCormack, Ciara Sinnott-O'Connor, Cian O'Neill, Alexandra Cremona, Peter Francis, Siobhan Leahy, & Phil Jakeman (Ireland)

Estimation of arm adipose tissue quotient from a bioimpedance measurement

Ruben Buendia, & Leigh C. Ward (Sweden, & Australia)

Project PANK: Preliminary results of a multidisciplinary school-based intervention in children with cardiovascular and metabolic risk factors. A Randomized Controlled Trial.

Rui Batalau, Joana Cruz, Paulo Cabrita, Pedro Gonçalves, Tânia Guerreiro, Magda Santos, Ricardo Gonçalves, João Leal, & António L. Palmeira (Portugal)

Can percentage body fat be accurately estimated by air displacement plethysmography using predicted thoracic gas volume in the elderly?

Vivian Wahrlich, Luiz A. Anjos, Bruna M. Silva, Rosane O. Lessa, Michele G. Ribeiro, Bianca D. Carlos, & Layanne C. Silva (Brazil)

Associations between intensive dance practice and growth, maturity and bone resistance in young dancers

Sónia Coelho, Lurdes M. Rebocho, Vera Zymbal, & Fátima Baptista (Portugal)

Peak height velocity of female eutrophic adolescents with excess or appropriate body fat

Silvia E. Priore, Sylvia C. Franceschini, Valter N. Miranda, Patrícia F. Pereira, Franciane R. Faria, & Eliane R. Faria (Brazil)

Triceps skinfold time response and compressibility

Teresa F. Amaral, Manuel R. Quintas, Tiago F. Andrade, Fátima Chouzal, & Maria T. Restivo (Portugal)

Comparison of ultrasound skinfolds and bioelectrical impedance spectroscopy to predict body composition in breastfed term infants

Zoya Gridneva, Leigh C. Ward, Anna R. Hepworth, Ching T. Lai, Peter E. Hartmann, & Donna T. Geddes (Australia)

Effect of the waist circumference measurement protocol on the relation between waist-to-hip ratio and body content and distribution in non-alcoholic fatty liver disease patients

Nuno M. Pimenta, Helena Santa-Clara, Helena Cortez-Pinto, José Silva-Nunes, Xavier Melo, & Luís B. Sardinha (Portugal)

Hematocrit variations mediates the association between aerobic capacity and fat-free changes

Cristina P. Monteiro, Catarina N. Matias, Diana A. Santos, & Mário Jesus (Portugal)

Tracing of coordinates of fat free mass index and fat mass index on body composition chart in adolescent diabetes girls

Sochung Chung, Hye W. Park, Byung O. Kwak, Chul H. Kim, Hyeojin Kim, & Kyo S. Kim (Korea)

Morphological changes in amateur soccer players within a sportive season: are these related to aerobic capacity enhancement?

Pedro G. Morouço, Valdemar A. Santos, & Ruben J. Ferreira (Portugal)

Skinfold thickness measurement in athletes: A comparison between Lohman's and ISAK protocols

Diana A. Santos, Catarina N. Matias, Luís B. Sardinha, & Analiza M. Silva (Portugal)

Reliability in the assessment of body composition by skinfolds measurements

Mauro A. Pascoa, Denise V. Macedo, & René Brenzikofer (Brazil)

Effect of obesity on pulmonary and cardiorespiratory function in children

João Brito, Rafael Oliveira, Nelson Valente, & Liliana Ramos (Portugal)

Results of weight regain after a commercial and multidisciplinary weight loss program

Teresa Branco, Sandra Martins, & Diana Baião (Portugal)

Associations of sedentary bout durations with abdominal obesity in older adults

Pedro B. Júdice, Analiza M. Silva, & Luís B. Sardinha (Portugal)

THU

Lecture #3

14H30-15H15

Why functional body composition?

Manfred J. Muller (Germany)

THU

Symposium #2

15H15-16H45

Body composition assessment in elite athletes – the International Olympic Committee research program

Chair: Wolfram Müller (Austria)

1st talk

Why is body composition so important for elite athletes? How to identify athletes struggling with weight and body composition issues?

Jorunn Sundgot-Borgen (Norway)

2 nd talk	The utility of skinfolds to describe fatness: answered and unanswered questions Arthur Stewart (UK)
3 rd talk	Body composition assessment practices around the world: problems, solutions, and lingering issues Nanna Meyer (USA)
4 th talk	Collating effective body composition normative data for elite athlete monitoring – what are the issues? Timothy Ackland (Australia)
5 th talk	Ultrasound applied for measuring uncompressed SAT: accuracy and inter-observer reliability obtainable with a semi-automatic image segmentation software Wolfram Müller (Austria)

Coffee break

16H45-17H15

THU

ORAL SESSION #2

17H15-18H30

Technologies for body composition assessment

Chair: Anja Bosy-Westphal (Germany)

17H15-17H30	Digital photography for the assessment of human body composition Olivia Affuso, Ligaj Pradhan, Chengcui Zhang, Song Gao, Howard W. Wiener, Barbara Gower, & David B. Allison (USA)
17H30-17H45	Accuracy and precision of the EchoMRI-Infants™ system for water and fat measurements using phantoms and newborns Tatiana Toro-Ramos, Charles W. Paley, Susan Lin, Wenwen Yu, Xavier Pi-Sunyer, & Dympna Gallagher (USA)
17H45-18H00	Preliminary evaluation of a prototype hybrid impedance spectrometer: the VALBIO trial Lindsay D. Plank, Sally D. Poppitt, Wilson Yip, & Leigh C. Ward (New Zealand, & Australia)
18H00-18H15	Evaluation of new advanced bioimpedance spectroscopy models for measuring body composition in healthy individuals and those undergoing massive weight loss Carrie P. Earthman, Abigail J. Cole, James R. Matthie, Adam Kuchnia, Jennifer Mager, Shalamar D. Sibley, & Lauren M. Beckman (USA)
18H15-18H30	Non-destructive elemental analysis of biological samples using portable energy dispersive X-ray fluorescence (XRF) for extracellular water measurements and micro-nutrient deficiencies Joseph J. Kehayias, Christopher E. Kehayias, Anna V. Roto, & Carrie A. Brown (USA)

Thursday, 12th June 2014

THU

**TRIENNIAL GENERAL MEETING OF
THE ISBCR**

18H30-20H00

FRI

Lecture #4

09H00-09H45

The functional impact of caloric restriction on body composition

Sharon E. Mitchell, & John Speakman (Scotland, & China)

FRI

Symposium #3

09H45-11H15

Modeling weight changes through nutrition and exercise – how much energy for changing fat and fat-free mass components

Chair: Timothy G. Lohman (USA)

1st talk **Comparing the energy density fat mass and fat-free mass developed from first principles with that observed from four-compartment analyses**
Dale A. Schoeller (USA)

2nd talk **Application of mathematical models to guide patient weight loss through a smart phone intervention**
Diana Thomas (USA)

3rd talk **Computational modeling of body composition dynamics in response to diet and physical activity interventions**
Kevin Hall (USA)

Coffee break

11H15-11H45

FRI

ORAL SESSION #3

11H45-13H00

Body composition in children

Chair: Dympna Gallagher (USA)

11H45-12H00 **Relative fatness definition and the study of Health-related Quality of Life when considering the maturity status of Lisbon adolescents**
Isabel Fragoso, Luis Massuca, João Albuquerque, & Carlos Barrigas (Portugal)

12H00-12H15 **Identification of clusters of body composition and time changes from 4 to 7 years old in children from Generation XXI**
Susana Santos, Milton Severo, Ana C. Santos, Carla Lopes, Henrique Barros, & Andreia Oliveira (Portugal)

12H15-12H30

Body cell mass in children with clinical conditions
Alexia J. Murphy, Rebecca J. Hill, & Peter W. Davies
(Australia)

12H30-12H45

Single and combined influences of body composition phenotypes on IMT among 11-12 years-old children
Xavier Melo, Helena Santa-Clara, Nuno M. Pimenta, Diana A. Santos, Rita Pinto, Sandra S. Martins, Cláudia S. Minderico, Bo Fernhalld, & Luís B. Sardinha (Portugal, & USA)

12H45-13H00

Body composition in children on treatment and post treatment for cancer
Alexia J. Murphy, Melinda White, Liane Lockwood, Andrew Hallahan, & Peter W. Davies (Australia)

LUNCH

13H00-13H45

FRI

CHAIRMEN-LED POSTER SESSION #2
13H45-14H30

Chairs: Diana Thomas (USA)
Nanna Meyer (USA)
Ulf Ekelund (Norway)

Specific bioelectrical impedance vector reference values for assessing body composition in the Italian-Spanish young population

Elena Mereu, María E. Ibáñez, Roberto Buffa, María Jesús Muñoz, Emanuela G. Russo, Lucia Zaccagni, Stefano Cossu, Esther Rebato, & Elisabetta Marini (Spain, & Italy)

Consistency of lean mass depletion assessment methods in COPD studies

Malwina M. Wojtas, Steve A. Wootton, & Marinos Elia (UK)

Correlation between body mass index and waist circumference with body fat in children aged 4 to 7 years

Sylvia C. Franceschini, Sarah V. Ribeiro, Luciana R. Sant'Ana, Taís A. Magalhães, Silvia E. Priore, & Andréia O. Ribeiro (Brazil)

Project PANK: Prediction of nutritional status and cardiorespiratory fitness evolution in a multi-disciplinary school-based intervention with children with cardiovascular and metabolic risk factors

Rui Batalau, Joana Cruz, Paulo Cabrita, Pedro Gonçalves, Tânia Guerreiro, Magda Santos, Ricardo Gonçalves, João Leal, & António L. Palmeira (Portugal)

Influence of lifestyle habits on nutritional status and body composition in children 4-7 years of age

Sylvia C. Franceschini, Sarah V. Ribeiro, Luciana R. Sant'Ana, Taís A. Magalhães, Silvia E. Priore, & Andréia O. Ribeiro (Brazil)

Reference values of normal bone mineral content and density in Korean adolescents

Sochung Chung, Hye W. Park, Ann Y. Kyung, Byung O. Kwak, & Kyo S. Kim (Korea)

Trends in the prevalence of overweight, obesity, risk and excess abdominal adiposity in Brazilian 7-10-year-old schoolchildren (2002-2007)

Danielle B. Leal, Maria A. Assis, David A. González-Chica, & Filipe F. Costa (Brazil)

Lower limbs lean soft tissue in circumpubertal boys: agreement between DXA assessment and a new model derived from anthropometry and maturation

Manuel J. Coelho-e-Silva, João Valente-dos-Santos, Aristides Machado-Rodrigues, Marije T. Elferink-Gemser, Robert M. Malina, Édio L. Petroski, Cláudia S. Minderico, Analiza M. Silva, Fátima Baptista, & Luís B. Sardinha (Portugal, USA, The Netherlands, & Brazil)

Diagnostic accuracy of body mass index, waist circumference, and waist-to-height ratio in detecting excess body fatness in 7-10-year-old schoolchildren

Maria A. Assis, Edineia Ribeiro, Danielle B. Leal, & Adriana S. Lobo (Brazil)

Development and application of new Adiposity Index Adjusted for Fat Mass (BMI_{fat}) through the use of bioelectrical impedance

Mirele S. Mialich, Edson Z. Martinez, & Alceu J. Junior (Brazil)

The relationship between anthropometric measurements and diagnosis of pre-diabetes mellitus among United Arab Emirates University female students

Ayesha S. Al Dhaheri, Maysm N. Mohamad, & Amjad H. Jarrar (United Arab Emirates)

Relation between android and gynoid fat with blood pressure in adolescent girls

Silvia E. Priore, Patrícia F. Pereira, Roberta S. Cecon, Valter N. Miranda, Franciane R. Faria, Eliane R. Faria, Pedro P. Junior, & Sylvia C. Franceschini (Brazil)

The ultrasound-derived prediction equation for adults is limited availability for estimating total and regional skeletal muscle mass in Japanese prepubertal children

Taishi Midorikawa, Megumi Ohta, Yuki Hikiyara, Suguru Torii, & Shizuo Sakamoto (Japan)

Effect of elliptical aerobic interval training on metabolic risk factor and Body Composition in pre- and type 2 diabetes patients: A pilot study

Antony D. Karelis, Annie Fex, Jean-Philippe Leduc-Gaudet, Marie-Eve Filion, & Mylène Aubertin-Leheudre (Canada)

Biological maturation and body composition in Portuguese children and adolescents from 11 to 15 years of age

João Albuquerque, Isabel Fragoso, Júlia Teles, Carlos Barrigas, & Cristina P. Monteiro (Portugal)

Validation of bioimpedance spectroscopy (BIS) for body composition assessment in Kuwaiti children

Leigh C. Ward, Badrya Al Lahou, Fatima Al Khulaifi, Jameela Al Ghanim, & Suad Al Hooti (Australia, & Kuwait)

Total body and extracellular hydration estimates in highly active adults: validation of bioelectrical impedance based methods

Catarina N. Matias, Diana A. Santos, Pedro B. Júdice, João P. Magalhães, Cláudia S. Minderico, David A. Fields, Luís B. Sardinha, & Analiza M. Silva (Portugal, & USA)

Body composition and its relation with energy balance in Portuguese adolescents

Ana L. Silva, João Albuquerque, Francília Vilhena, Lara C. Silva, Cristina P. Monteiro, Carlos Barrigas, & Isabel Fragoso (Portugal)

Effect of the waist circumference measurement protocol on the relation between waist-to-height ratio and body composition in non-alcoholic fatty liver disease patients

Nuno M. Pimenta, Helena Santa-Clara, Helena Cortez-Pinto, José Silva-Nunes, Xavier Melo, & Luís B. Sardinha (Portugal)

Burnout: time- & body-experience

David Duncan, Margarete Liebmann, Andrea Paletta, & Reinhold Esterbauer (Austria)

Lean soft tissue and proximal femur geometry in young adults

Vera Zymbal, Lurdes M. Rebocho, & Fátima Baptista (Portugal)

A more appropriate body mass index threshold to identify cardiometabolic risk in Black South African Adults

Herculina S. Kruger, Aletta E. Schutte, Sarah J. Moss, & Annamarie Kruger (South Africa)

Relation between the body adiposity index with the body mass index in children

Leticia C. Sposito, Ivair A. Danzige, Gusthavo A. Rodrigues, Amanda C. Prodócimo, Stéfani Reis, Elisângela Silva, & Wagner Z. Freitas (Brazil)

Changes in body composition during chemotherapy in women with breast cancer treated in the Netherlands

Maaïke van den Berg, Renate Winkels, Lisette Kamps, Paul Hulshof, Marjolein Visser, Hanneke van Laarhoven, Jeanne Vries, & Ellen Kampman (The Netherlands)

Evaluation of body mass in Sardinia (Italy) from Neolithic to Medieval period through the analysis of skeletal remains

Patrizia Martella, Nicola Mila, Emanuele Sanna, & Valentina De Maria (Italy)

Carbohydrate supplementation stabilizes sodium concentration during intense intermittent training

Norbert Maassen, Maik Schrader, Tristan Sandholtet, Benjamin Treff, Johannes Kaesebieter, Vladimir Shushakov, & Mirja Maassen (Germany)

Integrating nutrition and physical activity program: effectiveness in the treatment of obesity

Tânia M. Ferreira, Maria N. Lima, Cátia M. Ferreira, Rosana Imbroise, Ana S. Ribeiro, Adriane O. Sales, & Pedro R. Martins (Brazil)

A partial scanning technique for the assessment of broad individuals using DXA

Andreia Moço, Catarina N. Matias, Diana A. Santos, Luís B. Sardinha, & Analiza M. Silva (Portugal)

Do the members of women-only gyms have a different perception of their body image when compared to members of both-genders facilities?

Pedro G. Morouço, Eduardo Luciano, & Marco Olival (Portugal)

Influence of childhood obesity on pulmonary function

João Brito, Rafael Oliveira, Nelson Valente, & Liliana Ramos (Portugal)

Is fat-free mass a good predictor of the resting energy expenditure in patients with 21-hydroxylase deficiency? A pilot study

Ezequiel M. Gonçalves, Daniel Minutt, Sofia L. Marini, Renata S. Di Pieri, Raquel D. Lange, Juliano H. Borges, Bruno Geloneze, & Gil Guerra-Júnior (Brazil)

The role of physical activity energy expenditure at light and moderate-to-vigorous intensity on obesity and abdominal obesity in elderly

João P. Magalhães, Diana A. Santos, & Luís B. Sardinha (Portugal)

Bone mineral density in elderly women of a regular program of physical activity – preliminary report

Luís P. Ribeiro, João P. Pinheiro, António L. Abrantes, Rui P. Almeida, Kevin B. Azevedo, Aristides M. Rodrigues, & Rômulo Fernandes (Portugal, & Brazil)

Predictive validity of bioelectrical impedance equations to estimate fat mass among youth militaries

Raquel D. Langer, Josiel A. Avila, Mauro S. Melloni, Gil Guerra-Junior, Roseane G. Czelusniak, & Ezequiel M. Gonçalves (Brazil)

A new approach of using ultrasound to measure preterm body composition

Martin Horn, Sandra Wallner-Liebmann, Berndt Urlesberger, Nicholas Morris, & Wolfram Müller (Austria)

FRI

Lecture #5

14H30-15H15

Nutrition and exercise cross-talks in body composition – myths, presumptions, and facts

David Allison (USA)

FRI

Symposium #4

15H15-16H45

Sponsored by Coca-Cola Portugal

Hydration and body composition: health, function and modeling

Chair: Ronald Maughan (UK)

1st talk

A review of the hydration of fat-free mass in humans as measured by four-compartment body composition analysis

Dale A. Schoeller (USA)

2nd talk

Novel use of bioimpedance to classify hydration: applications and opportunities

Henry Lukaski (USA)

3rd talk

Early changes in weight loss and weight gain: The role of body water

Diana Thomas (USA)

Coffee break

16H45-17H15

FRI

ORAL SESSION #4

17H15-18H30

Body composition in special populations

Chair: Marinos Elia (UK)

17H15-17H30

Measuring body composition in critically ill patients

Boyd J. Strauss, David J. Brewster, Sheena Gune, Gisela Wilcox, Tim M. Crozier, Craig Walker, Richard Cooper, James Ritchie, Suzanne Armitage, Claire Hart, & Christian J. Hendriksz (United Kingdom, & Australia)

-
- 17H30-17H45 **A comparison of the relationship between illness markers and phase angle in healthy children and those with chronic kidney disease**
Caroline E. Anderson, Rodney Gilbert, & Marinos Elia (USA, & UK)
-
- 17H45-18H00 **Agreement between 3- and 4-compartment estimates of fat mass in obese patients before and after bariatric surgery induced weight loss**
Susan X. Lin, Bret Goodpaster, Gladys Strain, Alfons Pomp, Anita Courcoulas, & Dymrna Gallagher (USA)
-
- 18H00-18H15 **Changes in body water distribution between intracellular and extracellular water reflects decreased body cell mass relative to FFM from before to after surgery assisted weight loss**
Wen Yu, Gladys Stain, Jack Wang, Bret Goodpaster, Anita Courcoulas, Alfons Pomp, Gregory Dakin, Susan Lin, & Dymrna Gallagher (USA)
-

FRI

Workshop – International Olympic Committee
18H15-19H45

Ultrasound applied for accurate measurements of subcutaneous adipose tissue layers
Chair: Wolfram Müller (Austria)
Contributions by: Timothy G. Lohman, Ron Maughan, Arthur Stewart, Nanna Meyer, Jorunn Sundgot-Borgen, Timothy Ackland, & Luis B. Sardinha

FRI

CLOSING DINNER

20H30

SAT

Lecture #6

09H00-09H45

Sarcopenia in the presence of overweight – do we need a new definition?

Dympna Gallagher (USA)

SAT

Symposium #5

09H45-11H15

Sedentary behavior, physical activity, and body composition – energy regulation and health outcomes

Chair: Robert Ross (Canada)

1st talk

Physical activity, sedentary time and body composition from an epidemiological perspective

Ulf Ekelund (Norway)

2nd talk

Patterns of sedentary behavior and body composition

Marc T. Hamilton (USA)

3rd talk

Inactivity-induced disability and body composition

Marinos Elia (UK)

Coffee break

11H15-11H45

SAT

ORAL SESSION #5

11H45-13H00

Body composition methodology

Chair: John Speakman (UK)

11H45-12H00

The effects of hydration status on the measurement of lean tissue mass by dual energy X-ray absorptiometry

Alexandra Cremona, Clodagh Toomey, Will McCormack, Conor Hurley, Ross McLynn, Robert Davies, Katie Hughes, & Phil Jakeman (Ireland)

12H00-12H15

Is dual energy X-ray absorptiometry related to functional body composition?

Aldo Scafoglieri, Ivan Bautmans, Johan De Mey, & Jan P. Clarys (Belgium)

12H15-12H30 **The use of off-axis integrated-cavity output spectroscopy for rapid analysis of D/H and 18O/16O: applications to body composition and energy expenditure**
Joseph J. Kehayias, Carrie A. Brown, Anna V. Roto, Christopher E. Kehayias, & Gregory G. Dolnikowski (USA)

12:30-12:45 **Suitability of bioimpedance as a predictor of extracellular water (ECW)**
Ruben Buendia, & Leigh C. Ward (Australia)

12:45-13:00 **Field-based estimates of central adiposity in multiracial populations**
Leslie J. Brandon (USA)

LUNCH

13H00-14H00

SAT

Lecture #7

14H00-14H45

The role of exercise intensity and volume on functional body composition and health – related biomarkers
Robert Ross (Canada)

SAT

Symposium #6

14H45-16H15

New trends in bioimpedance usefulness for clinical nutrition and exercise science – from outside to inside cells
Chair: Dympna Gallagher (USA)

1st talk **Advancing bioimpedance applications in clinical nutrition with whole-body and localized measurements**
Henry Lukaski (USA)

2nd talk **Usefulness of bioimpedance in exercise-related outcomes**
Ronald Maughan (UK)

3rd talk **Is BIA an accurate tool in clinical practice?**
Anja Bosy-Westphal (Germany)

Coffee break

16H15-16H45

SAT

ORAL SESSION #6

16H45-17H45

Body composition in athletes and physical active populations

Chair: Marc T. Hamilton (USA)

16H45-17H00

Body cell mass during long-term training in elite male water polo players

Angela Andreoli, Valerio Viero, Roberto Sorge, Triossi Tamara, Alessandro Campagna, & Giovanni Melchiorri (Italy)

17H00-17H15

Leg muscle mass predicts knee extension power, usual and maximal walking speed, but not chair stand performance, in trained obese older adults

Robert G. Memelink, & Peter M. Weijs (The Netherlands)

17H15-17H30

A longitudinal study of body composition in elite male Gaelic athletic association (GAA) hurlers

Katie Hughes, Robert Davies, Clodagh Toomey, Will McCormack, Alexandra Cremona, Cian O'Neill, Siobhan Leahy, Peter Francis, & Phil Jakeman (Ireland)

17H30-17H45

Skinfolds compressibility and calliper's time response in male elite athletes

Alessandro Bini, Teresa F. Amaral, Bruno M. Oliveira, Pedro Carvalho, & Vitor H. Teixeira (Portugal)

SAT

Lecture #8

17H45-18H15

Body composition, physical activity, nutrition, and energy balance

Klaas Westerterp (The Netherlands)

SAT

Highlighted Session

18H15-19H00

The expert view for the future of body composition: from atoms to anthropometry

Contributions by: Timothy G. Lohman, Marinos Elia, Manfred J. Müller, Dale A. Schoeller, Arthur Stewart, & Zimian Wang (USA, UK, & Germany)

SAT

CLOSING CEREMONY

19H15-19H30
