



European Thyroid Association  
**38th Annual Meeting**

Santiago de Compostela, SPAIN | 6-10 September 2014

## Scientific Programme/ Tuesday, 9th September

### Santiago Room

08.00-09.30 SYMPOSIUM 5: THYROID DISEASE DURING PREGNANCY AND CHILDHOOD

Chairpersons: *Marek Niedziela, Poland and Jose Moreno, Spain*

08.00-08.30 Iodine deficiency in pregnancy and neurodevelopment

*Margaret Rayman, United Kingdom*

08.30-09.00 Graves' disease in children

*Juliane Léger, France*

09.00-09.30 Thyroid nodules and differentiated thyroid cancer in children

*Françoise Borson-Chazot, France*

### Compostela Room

08.00-09.30 SYMPOSIUM 6: PATHOLOGICAL FUNCTIONS OF MCT8

Chairpersons: *Heike Heuer, Germany and Carlos Dieguez, Spain*

08.00-08.30 Role of MCT8 in the brain

*Juan Bernal, Spain*

08.30-09.00 MCT8 and metabolism

*Caterina di Cosmo, Italy*

09.00-09.30 Therapeutic options for MCT8 patients

*Theo Visser, The Netherlands*

### 09.30-10.00 COFFEE BREAK

### Santiago Room

10.00-12.00 ORAL SESSION 8: HYPERTHYROIDISM AND ORBITOPATHY (OP55-OP62)

Chairpersons: *Luigi Bartalena, Italy and Fernando Cordido, Spain*

10.00-10.15

**OP55 DIAGNOSIS AND MANAGEMENT OF GRAVES' DISEASE IN EUROPE - RESULTS OF A SURVEY AMONG MEMBERS OF THE EUROPEAN THYROID ASSOCIATION (ETA)**

Luigi Bartalena<sup>1</sup>, Henry B. Burch<sup>2</sup>, George J. Kahaly<sup>3</sup>

<sup>1</sup>University of Insubria, Varese, Italy; <sup>2</sup>Uniformed Services University of the Health Sciences; <sup>3</sup>Johannes Gutenberg University Medical Center, Dept. of Medicine I, Mainz, Germany

10.15-10.30

**OP56 THYROID STIMULATING AUTOANTIBODIES ARE CLINICALLY USEFUL AND PREDICTIVE IN GRAVES' DISEASE - A PROSPECTIVE TRIAL**

George J. Kahaly<sup>1</sup>, Michael Kanitz<sup>1</sup>, Elisa Kolbe<sup>1</sup>, Nina Matheis<sup>1</sup>, Tanja Diana<sup>1</sup>

<sup>1</sup>Johannes Gutenberg University Medical Center, Mainz, Germany

10.30-10.45

**OP57 EFFECTS OF TRIIODOTHYRONINE ON BONE MARROW AND SPLENIC GRANULOCYTES AND MONOCYTES POPULATIONS**

Flavia Bloise<sup>1</sup>, Felipe Leite Oliveira<sup>2</sup>, Huila Fonseca<sup>2</sup>, Samuel dos Santos Valença<sup>2</sup>, Radovan Borojevic<sup>2</sup>, Carmen Cabanelas Pazos-Moura<sup>3</sup>, Valéria de Mello-Coelho<sup>2</sup>

<sup>1</sup>Institute of Biomedical Sciences; Institute of Biophysics Carlos Chagas Filho. Federal University of Rio de Janeiro; Academic Medical Central. University of Amsterdam; Capes; <sup>2</sup>Institute of Biomedical Sciences; <sup>3</sup>Institute of Biophysics Carlos Chagas Filho

10.45-11.00

**OP58 THYROXINE-INDUCED CHANGES OF THE PLASMA PROTEOME - A STUDY OF EXPERIMENTAL HYPERTHYROIDISM IN HUMANS**

Beatrice Engelmann<sup>1</sup>, Anna-Luise Dirk<sup>2</sup>, Elke Hammer<sup>3</sup>, Alexander Iwen<sup>2</sup>, Henri Wallaschofski<sup>4</sup>, Uwe Völker<sup>3</sup>, Georg Homuth<sup>3</sup>, Georg Brabant<sup>2</sup>

<sup>1</sup>Interfaculty Institute for Genetics and Functional Genomics, University of Greifswald; <sup>2</sup>Experimental and Clinical Endocrinology, University of Luebeck; <sup>3</sup>Interfaculty Institute for Genetics and Functional Genomics, University of Greifswald <sup>4</sup>Interfaculty Institute for Genetics and Functional Genomics

11.00-11.15

**OP59 DECREASE OF GLUT4 AND T3 AND INCREASE OF NOX2 ARE INVOLVED IN THE OXIDATIVE STRESS OF EYE MUSCULAR CELLS AND ORBITAL ADIPOCYTES IN GRAVES' ORBITOPATHY**

Van Regemorter Elliott<sup>1</sup>, Julie Craps<sup>2</sup>, Joris Virginie<sup>1</sup>, Behets Catherine<sup>1</sup>, Benoît Lengelé<sup>2</sup>, Baldeschi Lelio<sup>1</sup>, Chantal Daumerie<sup>3</sup>, Marie-Christine Many<sup>2</sup>

<sup>1</sup>Ucl; <sup>2</sup>Université Catholique de Louvain, Morphologie Expérimentale; <sup>3</sup>Cliniques Universitaires Saint-Luc; Université Catholique de Louvain

11.15-11.30

**OP60 ROLE OF ALTERNATE TSHR LIGANDS AND BINDING PROTEINS (TSHR-BP) IN GRAVES' ORBITOPATHY (GO)**

Mohd Shazli Draman<sup>1</sup>, Fiona Grennan-Jones<sup>1</sup>, Lei Zhang<sup>1</sup>, Pete N Taylor<sup>1</sup>, Daniel Morris<sup>2</sup>, Carol Lane<sup>2</sup>, Colin Dayan<sup>1</sup>, Marian Ludgate<sup>1</sup>

<sup>1</sup>Institute of Molecular & Experimental Medicine; School of Medicine; Cardiff University <sup>2</sup>Department of Ophthalmology; University Hospital of Wales

11.30-11.45

**OP61 THE EFFECT OF RITUXIMAB (RTX) AND INTRAVENOUS METHYLPREDNISOLONE (IVMP) ON TSH-RECEPTOR ANTIBODIES (TRAB) AND THE CXCL-10 CHEMOKINE IN PATIENTS WITH ACTIVE GRAVES' ORBITOPATHY (GO).**

Guia Vannucchi<sup>1</sup>, Irene Campi<sup>2</sup>, Danila Covelli<sup>2</sup>, P Fallahi<sup>3</sup>, S Tirelli<sup>4</sup>, A Di Domenicoantonio<sup>3</sup>, Nicola Currò<sup>5</sup>, Davide Dazzi<sup>6</sup>, Alessandro Antonelli<sup>3</sup>, Mario Salvi<sup>2</sup>

<sup>1</sup>Endocrine Unit, Fondazione Policlinico Irccs, Milan, Italy; <sup>2</sup>Endocrine Unit, Fondazione Irccs Cà Granda, Milan <sup>3</sup>Department of Clinical and Experimental Medicine, University of Pisa; <sup>4</sup>Laboratory Medicine Unit, Fondazione Ca' Granda Irccs

<sup>5</sup>Ophthalmology4, Fondazione Ca' Granda Irccs

<sup>6</sup>Internal Medicine5, Ospedale DI Fidenza, Fidenza, Italy

11.45-12.00

**OP62 FORKHEAD TRANSCRIPTION FACTORS; POSSIBLE TARGETS FOR THERAPY IN GO?**

Lei Zhang<sup>1</sup>, Fiona Ruge<sup>2</sup>, Mohd Shazli Draman<sup>1</sup>, Fiona Grennan-Jones<sup>1</sup>, Carol Lane<sup>3</sup>, Colin Dayan<sup>1</sup>, Marian Ludgate<sup>1</sup>

<sup>1</sup>Institute of Molecular & Experimental Medicine; School of Medicine; Cardiff University; <sup>2</sup>Cardiff-Peking Cancer Institute; School of Medicine; Cardiff University; <sup>3</sup>Department of Ophthalmology; University Hospital of Wales

**Compostela room**

10.00-12.00 ORAL SESSION 9: THYROID CANCER PATHOGENESIS (OP63-OP70)

Chairpersons: Chris McCabe, United Kingdom and Pilar Santisteban, Spain

10.00-10.15

**OP63 A NOVEL MODULATOR OF CELL INVASION AND METASTASIS**

Rachel Watkins<sup>1</sup>, Vicki Smith<sup>1</sup>, Neil Sharma<sup>1</sup>, Martin Read<sup>1</sup>, Perkin Kwan<sup>1</sup>, Rachel Fletcher<sup>1</sup>, Vikki Poole<sup>1</sup>, Waraporn Imruetaicharoenchoke<sup>1</sup>, Kristien Boelaert<sup>1</sup>, Jayne Franklyn<sup>1</sup>, Christopher McCabe<sup>1</sup>

<sup>1</sup>University of Birmingham, United Kingdom

10.15-10.30

**OP64 AN INTRONIC DELETION IN PHOSPHOLIPASE-C B1 (PLCB1) ASSOCIATED WITH EUTHYROID MULTINODULAR GOITRE (MNG) AND RISK OF PROGRESSING TO PAPILLARY THYROID CANCER (PTC)**

Ioannis Ladas<sup>1</sup>, Fiona Grennan-Jones<sup>1</sup>, Ameen Bakhsh<sup>1</sup>, Lei Zhang<sup>1</sup>, Anna de Lloyd<sup>1</sup>, Denise Zwanziger<sup>2</sup>, Dagmar Fuhrer-Sakel<sup>2</sup>, Marian Ludgate<sup>1</sup>

<sup>1</sup>Cardiff University, Thyroid Research Group, Institute of Molecular and Experimental Medicine, Cardiff, United Kingdom

<sup>2</sup>Klinik Fur Endokrinologie, Universitatsklinikum, Essen, Germany

10.30-10.45

**OP65 SELECTIVE KILLING AND SUBSEQUENT SENESCENCE INDUCTION: A DOUBLE ACTION FOR ANAPLASTIC THYROID CANCER THERAPY.**

Elisa Stellaria Grassi<sup>1</sup>, Valeria Vezzoli<sup>1</sup>, Irene Negri<sup>1</sup>, Giovanni Vitale<sup>2</sup>, Luca Persani<sup>2</sup>

<sup>1</sup>Dept. of Clinical Sciences & Community Health, University of Milan; <sup>2</sup>Dept. of Clinical Sciences & Community Health, University of Milan; Division of Endocrine and Metabolic Diseases & Lab. of Endocrine and Metabolic Research, Irccs Istituto Auxologico Italiano

10.45-11.00

**OP66 THE FIRST REPORTED MUTATIONS IN THE PITUITARY TUMOR-TRANSFORMING GENE (PTTG) BINDING FACTOR (PBF)**

Waraporn Imruetaicharoenchoke<sup>1</sup>, Martin Read<sup>1</sup>, Joel Smith<sup>1</sup>, Vicki Smith<sup>1</sup>, Bhavika Modasia<sup>1</sup>, Vikki Poole<sup>1</sup>, Rachel Watkins<sup>1</sup>, Jayne Franklyn<sup>1</sup>, Kristien Boelaert<sup>1</sup>, Christopher McCabe<sup>1</sup>

<sup>1</sup>University of Birmingham, United Kingdom

11.00-11.15

**OP67 CLM29 AND CLM3, TWO TYROSINE KINASE INHIBITORS, HAVE ANTINEOPLASTIC ACTIVITY IN VITRO IN PRIMARY CULTURES FROM ANAPLASTIC THYROID CANCER, OBTAINED FROM FINE NEEDLE ASPIRATION.**

Alda Corrado<sup>1</sup>, Poupak Fallahi<sup>1</sup>, Silvia Martina Ferrari<sup>1</sup>, Guido Bocci<sup>1</sup>, Concettina La Motta<sup>1</sup>, Gabriele Materazzi<sup>1</sup>, Andrea Di Domenicantonio<sup>1</sup>, Romano Danesi<sup>1</sup>, Federico Da Settimo<sup>1</sup>, Paolo Miccoli<sup>1</sup>, Alessandro Antonelli<sup>0</sup>

<sup>1</sup>University of Pisa, Italy

11.15-11.30

**OP68 ESTROGEN AND PROGESTERON RECEPTORS EXPRESSION IN DIFFERENTIATED THYROID CANCER: A ROLE IN THE RISK STRATIFICATION OF THYROID TUMORS**

Simone De Leo<sup>1</sup>, Michela Perrino<sup>1</sup>, Carla Colombo<sup>1</sup>, Stefania Rossi<sup>2</sup>, Delfina Tosi<sup>2</sup>, Leonardo Vicentini<sup>3</sup>, Gaetano Bulfamante<sup>2</sup>, Laura Fugazzola<sup>1</sup>, Guia Vannucchi<sup>1</sup>

<sup>1</sup>Endocrinology, Fondazione Ca' Granda Irccs, University of Milan, Italy; <sup>2</sup>Pathology Unit, Ospedale San Paolo, University of Milan; <sup>3</sup>Endocrine Surgery Unit, Fondazione Irccs Cà Granda, Milan

11.30-11.45

**OP69 INSULIN RESISTANCE: ANOTHER RISK FACTOR THAT INCREASES THE RISK OF RECURRENCE IN PATIENTS WITH THYROID CANCER?**

Fabian Pitoia<sup>1</sup>, Erika Abelleira<sup>1</sup>, Fernanda Bueno<sup>1</sup>, Carolina Urciuoli<sup>1</sup>

<sup>1</sup>Hospital de Clinicas - University of Buenos Aires

11.45-12.00

**OP70 GENETIC PREDISPOSITION TO PAPILLARY THYROID CANCER**

Dorota Kula<sup>1</sup>, Daria Handkiewicz-Junak<sup>1</sup>, Michal Kalemba<sup>1</sup>, Zbigniew Puch<sup>1</sup>, Malgorzata Kowalska<sup>1</sup>, Monika Kowal<sup>1</sup>, Tomasz Tyszkiewicz<sup>1</sup>, Renata Cyplinska<sup>1</sup>, Joanna Polanska<sup>2</sup>, Barbara Jarzab<sup>1</sup>

<sup>1</sup>Maria Sklodowska-Curie Memorial Cancer Center and Institute of Oncology; <sup>2</sup>Silesian University of Technology, Poland

**Poster Area**

**12.00-13.00 LUNCH AND POSTER DISCUSSION 3 (POSTERS 239-367)**

**Poster Session 24: Thyroid Autoimmunity**

*Chairperson: Marian Ludgate, United Kingdom*

**Poster Session 25: Hyperthyroidism**

*Chairperson: João de Castro, Portugal*

**Poster Session 26: Novel Actions of Thyroid Hormone**

*Chairperson: Heike Biebermann, Germany*

**Poster Session 27: Paediatrics and Pregnancy**

*Chairperson: Juliane Léger, France*

**Poster Session 28: Thyroid Cancer Diagnostics 3**

*Chairperson: Leonidas Duntas, Greece*

**Poster Session 29: Thyroid Cancer Diagnostics 4**

*Chairperson: Tania Pilli, Italy*

**Poster Session 30: Thyroid Cancer Pathogenesis 2**

*Chairperson: Kalliopi Paizaitou-Panayiotou, Greece*

**Poster Session 31: Thyroid Hormone and Gene Expression**

*Chairperson: Barbara Demeneix, France*

**Poster Session 32: Case Reports 3**

*Chairperson: Valentin Fadeyev, Russia*

**Poster Session 33: Thyroid Cancer Therapeutics 3**

*Chairperson: Roland Gärtner, Germany*

**Poster Session 34: Thyroid Cancer Therapeutics 4**

*Chairperson: Matthias Schott, Germany*

**Poster Session 35: Biochemical and Metabolic Parameters**

*Chairperson: Tomasz Bednarczyk, Poland*

**Santiago Room**

**13.00-14.00 ETA INDUSTRY-SPONSORED SATELLITE SYMPOSIUM 6**

**New Trends in the Management of Thyroid Cancer**

**14.00-14.45 MEET-THE-EXPERT 9-12**

**Santiago Room**

**14.00-14.45 MTE 9**

Management of Follicular neoplasms

*Paolo Vitti, Italy*

**Compostela Room**

**14.00-14.45 MTE 10**

Thyroid hormones and bones

*Graham Williams, United Kingdom*

**Room 14**

**14.00-14.45 MTE 11**

Nuclear medicine imaging in thyroid disease

*Markus Luster, Germany*

**Room 25**

**14.00-14.45 MTE 12**

Non-thyroidal illness

*Anita Boelen, The Netherlands*

**14.45-15.00 COFFEE BREAK**

**Santiago Room**

**15.00-17.00 ORAL SESSION 10: CLINICAL THYROIDOLOGY (OP71-OP78)**

*Chairpersons: Philippe Caron, France and Juan Carlos Galofré, Spain*

15.00-15.15

**OP71 SUBCLINICAL HYPOTHYROIDISM AND THE RISK OF NON-FATAL AND FATAL STROKE: AN INDIVIDUAL PARTICIPANT ANALYSIS**

Loyal Chaker<sup>1</sup>, Christine Baumgartner<sup>2</sup>, Wendy J.P. den Elzen<sup>3</sup>, M. Arfan Ikram<sup>4</sup>, Manuel R. Blum<sup>2</sup>, Stephan J. L. Bakker<sup>5</sup>, Abbas Dehghan<sup>6</sup>, Christiane Drechsler<sup>7</sup>, Robert N. Luben<sup>8</sup>, Albert Hofman<sup>6</sup>, Marileen L.P. Portegies<sup>6</sup>, Marco Medici<sup>1</sup>, Giorgio Iervasi<sup>9</sup>, Tinh-Hai Collet<sup>2</sup>, Alexandra Brenner<sup>10</sup>, Christoph Wanner<sup>11</sup>, Massimo Iacoviello<sup>12</sup>, Robin P. Dullaart<sup>5</sup>, José A. Sgarbi<sup>13</sup>, Graziano Ceresini<sup>14</sup>,

Rudi G. Westendorp<sup>15</sup>, J. Wouter Jukema<sup>16</sup>, Misa Imaizumi<sup>17</sup>, Jayne A. Franklyn<sup>18</sup>, Douglas C. Bauer<sup>19</sup>, Anne R. Cappola<sup>20</sup>, John P. Walsh<sup>21</sup>, Salman Razvi<sup>22</sup>, Kay-Tee Khaw<sup>8</sup>, Henry Völzke<sup>23</sup>, Oscar H. Franco<sup>6</sup>, Jacobijn Gussekloo<sup>3</sup>, Nicolas Rodondi<sup>2</sup>, Robin P. Peeters<sup>1</sup>

<sup>1</sup>Department of Internal Medicine, Thyroid Center, Erasmus Medical Center, Rotterdam, The Netherlands

<sup>2</sup>Department of Ambulatory Care and Community Medicine, University of Lausanne, Lausanne, Switzerland

<sup>3</sup>Department of Epidemiology Departments of Public Health and Primary Care; Leiden University Medical Center, Leiden, the Netherlands; <sup>4</sup>Department of Neurology, Erasmus University Medical Center, Rotterdam, The Netherlands ; Department of Radiology, Erasmus University Medical Center, Rotterdam, The Netherlands ; Department of Epidemiology, Erasmus

University Medical Center, Rotterdam, The Netherlands; <sup>5</sup>Department of Internal Medicine, University of Groningen, University

Medical Center Groningen, The Netherlands; <sup>6</sup>Department of Epidemiology, Erasmus University Medical Center, Rotterdam,

The Netherlands; <sup>7</sup>Department of Medicine, Division of Nephrology, University Hospital of Würzburg, Germany

<sup>8</sup>Department of Public Health and Primary Care, University of Cambridge, Cambridge, England; <sup>9</sup>National Council Research

Institute of Clinical Physiology, Pisa, Italy; <sup>10</sup>School of Population Health, University of Western Australia, Crawley

<sup>11</sup>Department of Medicine, Division of Nephrology and Scientific Director, Clinical Trial Unit, University Hospital of Würzburg,

Germany; <sup>12</sup>Cardiology Unit, Department of Emergency and Organ Transplantation, University of Bari, Italy

<sup>13</sup>Division of Endocrinology, Department of Medicine, Federal University of Sao Paulo, Brazil; Division of Endocrinology,

Faculdade de Medicina de Marília, Marília, Brazil; <sup>14</sup>Facolta DI Medicina E Chirurgia, Department of Clinical and

Experimental Medicine, Parma, Italy; <sup>15</sup>Department of Epidemiology and Gerontology and Geriatrics, Leiden University Medical

Center, Leiden, the Netherlands; Netherlands Consortium for Healthy Ageing, Leiden; <sup>16</sup>Department of Cardiology, Leiden

University Medical Centre, Leiden, The Netherlands; <sup>17</sup>Department of Clinical Studies, Radiation Effects Research Foundation,

Nagasaki, Japan; <sup>18</sup>School of Clinical and Experimental Medicine, College of Medical and Dental Sciences, University of

Birmingham, Birmingham, England; <sup>19</sup>Departments of Medicine, Epidemiology, and Biostatistics and Medicine university of

California, San Francisco; <sup>20</sup>Division of Endocrinology, Diabetes, and Metabolism, Department of Medicine, School of Medicine,

University of Pennsylvania, Philadelphia; <sup>21</sup>Department of Endocrinology and Diabetes, Sir Charles Gairdner Hospital,

Nedlands, Western Australia; <sup>22</sup>Department of Endocrinology, Gateshead Health Foundation NHS Trust, Gateshead, England

<sup>23</sup>Institute for Community Medicine, Clinical-Epidemiological Research, University of Greifswald, Greifswald, Germany

15.15-15.30

### **OP72 MILD HYPERTHYROIDISM LEADS TO INCREASED CONNECTIVITY IN TEMPORAL LOBE STRUCTURES: A RESTING STATE FMRI STUDY**

Anna-Luise Dirk<sup>1</sup>, Martin Göttlich<sup>2</sup>, Marcus Heldmann<sup>2</sup>, Anna Goebel<sup>2</sup>, Georg Brabant<sup>1</sup>, Thomas F. Munte<sup>2</sup>

<sup>1</sup>Experimental and Clinical Endocrinology, University of Luebeck; <sup>2</sup>Department of Neurology, University of Luebeck, Germany

15.30-15.45

### **OP73 EUTHYROID AND HYPERTHYROID HAVE INCREASED RISK OF CEREBROVASCULAR EVENTS AFTER 131IODINE TREATMENT – A COHORT STUDY OF MORE THAN 5000 TREATED PATIENTS**

Jeppe Lerche la Cour<sup>1</sup>, Lars Thorbjørn Jensen<sup>2</sup>, Birte Nygaard<sup>3</sup>

<sup>1</sup>Section of Clinical Physiology, Department of Diagnostics, Glostrup Hospital, University of Copenhagen

<sup>2</sup>Department of Clinical Physiology and Nuclear Medicine, Herlev Hospital, University of Copenhagen; Section of Clinical Physiology, Department of Diagnostics, Glostrup Hospital, University of Copenhagen

<sup>3</sup>Department of Endocrinology, Herlev Hospital

15.45-16.00

### **OP74 LOW SERUM THYROTROPIN LEVEL AND DURATION OF SUPPRESSION AS A PREDICTOR OF MAJOR OSTEOPOROTIC FRACTURES – THE OPENTHYRO REGISTER COHORT**

Anne Sofie Laulund<sup>1</sup>, Bo Abrahamsen<sup>2</sup>, Henrik Løvendahl Jørgensen<sup>3</sup>, Mads Nybo<sup>4</sup>, Thomas Heiberg Brix<sup>1</sup>, Laszlo Hegedüs<sup>1</sup>

<sup>1</sup>Department of Endocrinology and Metabolism, Odense University Hospital

<sup>2</sup>Research Centre for Aging and Osteoporosis, Odense University Hospital

<sup>3</sup>Department of Clinical Biochemistry, Bispebjerg Hospital

<sup>4</sup>Department of Clinical Biochemistry and Pharmacology, Odense University Hospital

16.00-16.15

**OP75 RANDOMISED CONTROLLED PRE-CLINICAL TRIAL OF TRI-IODOTHYRONINE (T3) AND HYDROCORTISONE REPLACEMENT IN SEPTIC SHOCK.**

Matthew Maiden<sup>1</sup>, Marianne Chapman<sup>1</sup>, Tim Kuchel<sup>2</sup>, David Torpy<sup>1</sup>, Iain Clarke<sup>3</sup>, Guy Ludbrook<sup>1</sup>

<sup>1</sup>Royal Adelaide Hospital; University of Adelaide; <sup>2</sup>Sahmri; <sup>3</sup>Monash University

16.15-16.30

**OP76 BIRTH DEFECTS AFTER THE USE OF THE ANTITHYROID DRUGS (ATDS) METHIMAZOLE/CARBIMAZOLE (MMI/CMZ) AND PROPYLTHIOURACIL (PTU) IN PREGNANCY: HIGH RISK IS CONFINED TO A BRIEF TIME WINDOW OF PREGNANCY.**

Peter Laurberg<sup>1</sup>, Stine Linding Andersen<sup>1</sup>

<sup>1</sup>Aalborg University Hospital

16.30-16.45

**OP77 EVALUATION THE ASSOCIATION OF POLYMORPHISMS IN DIO1 AND DIO2 GENES WITH MENTAL, BIOCHEMICAL PARAMETERS AND QUALITY OF LIFE IN WOMEN WITH PRIMARY HYPOTHYROIDISM**

Valentin Fadeyev<sup>1</sup>, Meruert Madiyarova<sup>1</sup>, Tatyana Morgunova<sup>1</sup>

<sup>1</sup>I.M.Sechenov First Moscow State Medical University, Department of Endocrinology, Russia

16.45-17.00

**OP78 LONG-TERM SELENIUM SUPPLEMENTATION AND THYROTROPIN IN DANISH SENIORS. RESULTS FROM A RANDOMISED CONTROLLED TRIAL.**

Kristian Winther<sup>1</sup>, Frederik Cold<sup>2</sup>, Steen Joop Bonnema<sup>1</sup>, Søren Cold<sup>2</sup>, Birgit Debrabant<sup>3</sup>, Mads Nybo<sup>4</sup>, Laszlo Hegedüs<sup>1</sup>

<sup>1</sup>Department of Endocrinology and Metabolism, Odense University Hospital, Denmark; <sup>2</sup>Department of Oncology, Odense University Hospital, Denmark; <sup>3</sup>Department of Epidemiology, Biostatistics and Biodemography, University of Southern Denmark, Odense, Denmark; <sup>4</sup>Department of Clinical Biochemistry, Odense University Hospital, Denmark

**Compostela Room**

**15.00-17.00 ORAL SESSION 11: YOUNG INVESTIGATORS SESSION/BASIC (OP79-OP86)**

Chairpersons: Theo Visser, The Netherlands and Josef Köhrle, Germany

15.00-15.15

**OP79 BIOSYNTHESIS OF 3-IODOTHYRONAMINE FROM THYROXINE IN INTESTINAL TISSUE**

Carolin Höfig<sup>1</sup>, Tilo Wuensch<sup>2</sup>, Ina Lehmpul<sup>3</sup>, Hannelore Daniel<sup>4</sup>, Ulrich Schweizer<sup>5</sup>, Jens Mittag<sup>6</sup>, Josef Köhrle<sup>3</sup>

<sup>1</sup>Karolinska Institutet, Department of Cell & Molecular Biology, Sweden; Institut Für Experimentelle Endokrinologie, Charité - Universitätsmedizin Berlin, Germany; <sup>2</sup>Karolinska Institutet, Department of Cell & Molecular Biology, Sweden; Ziel Research Center of Nutrition and Food Science, Abteilung Biochemie, Technische Universität München, Germany

<sup>3</sup>Institut Für Experimentelle Endokrinologie, Charité - Universitätsmedizin Berlin, Germany

<sup>4</sup>Ziel Research Center of Nutrition and Food Science, Abteilung Biochemie, Technische Universität München, Germany

<sup>5</sup>Institut Für Biochemie und Molekularbiologie, Rheinische Friedrich-Wilhelms-Universität Bonn, Germany

<sup>6</sup>Karolinska Institutet, Department of Cell & Molecular Biology, Sweden

15.15-15.30

**OP80 REGULATION OF EMBRYONIC THYROID GROWTH BY MESENCHYMAL FGF10 COINCIDING WITH FUNCTIONAL DIFFERENTIATION**

Shawn Liang<sup>1</sup>, Henrik Fagman<sup>2</sup>, Mikael Nilsson<sup>1</sup>

<sup>1</sup>Sahlgrenska Cancer Center, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden

<sup>2</sup>Department of Clinical Pathology and Genetics, Sahlgrenska University Hospital, Gothenburg, Sweden

15.30-15.45

**OP81 IDENTIFICATION OF MIR-146B-3P AS A KEY PLAYER IN THYROID CANCER DEDIFFERENTIATION**

León Wert-Lamas<sup>1</sup>, Garcilaso Riesco<sup>1</sup>, Pilar Santisteban<sup>2</sup>

<sup>1</sup>Iib Alberto Sols. Csic-Uam; <sup>2</sup>Instituto de Investigaciones Biomédicas (Csic-Uam), Spain

15.45-16.00

**OP82 IN VIVO DISSECTION OF THE ROLE OF GLIS3 TRANSCRIPTION FACTOR IN THE HYPOTHALAMIC-PITUITARY-THYROID AXIS**

Federica Marelli<sup>1</sup>, Franco Cotelli<sup>2</sup>, Luca Persani<sup>3</sup>

<sup>1</sup>Irccs Istituto Auxologico Italiano; <sup>2</sup>University of Milan; <sup>3</sup>Irccs Istituto Auxologico Italiano; University of Milan, Italy

16.00-16.15

**OP83 THE EFFECT OF DEIODINASE TYPE 3 KNOCKDOWN ON ZEBRAFISH EYE DEVELOPMENT.**

Anne M. Houbrechts<sup>1</sup>, Enise Bagci<sup>2</sup>, Marjolein Heijlen<sup>1</sup>, Dries Knapen<sup>3</sup>, Veerle M. Darras<sup>1</sup>

<sup>1</sup>Laboratory of Comparative Endocrinology, Ku Leuven, Belgium; <sup>2</sup>Systemic Physiological & Ecotoxicological Research, Ua, Belgium; <sup>3</sup>Systemic Physiological & Ecotoxicological Research, Ua, Belgium; Veterinary Physiology and Biochemistry, Ua, Belgium

16.15-16.30

**OP84 CHARACTERIZATION OF CHICKEN THYROID HORMONE TRANSPORTERS**

Nele Bourgeois<sup>1</sup>, Stijn L.J. Van Herck<sup>1</sup>, Joke Delbaere<sup>1</sup>, Chantal Zevenbergen<sup>2</sup>, Simone Kerseboom<sup>2</sup>, Veerle M. Darras<sup>1</sup>, Theo J. Visser<sup>2</sup>

<sup>1</sup>Laboratory of Comparative Endocrinology, Ku Leuven, Belgium

<sup>2</sup>Department of Internal Medicine, Erasmus University Medical Center, 3015 Ge Rotterdam, The Netherlands

16.30-16.45

**OP85 IMPACT OF THYROID HORMONES ON ERA-DEPENDENT ACTIONS IN THE HYPOTHALAMUS**

Larissa Faustino<sup>1</sup>, Khatuna Gagnidze<sup>2</sup>, Tania M Ortiga-Carvalho<sup>3</sup>, Donald Pfaff<sup>2</sup>

<sup>1</sup>Universidade Federal Do Rio de Janeiro; The Rockefeller University; <sup>2</sup>The Rockefeller University; <sup>3</sup>Universidade Federal Do Rio de Janeiro

16.45-17.00

**OP86 ROLE OF THE NADPH OXIDASE NOX4 IN BRAFV600E-DEPENDENT DOWNREGULATION OF NIS.**

Azouzi Naïma<sup>1</sup>, Cailloux Jérémy<sup>1</sup>, Boichard Amélie<sup>2</sup>, Abir Al Ghuzlan<sup>3</sup>, Dana Hartl<sup>3</sup>, Martin Schlumberger<sup>4</sup>, Ameziane El Hassani Rabii<sup>5</sup>, Corinne Dupuy<sup>0</sup>

<sup>1</sup>Université Paris-Sud 11; Umr 8200 Cnrs; Institut Gustave Roussy; <sup>2</sup>Institut Gustave Roussy; <sup>3</sup>Gustave Roussy, Université Paris-Sud, Villejuif, France; <sup>4</sup>Department of Nuclear Medicine and Endocrine Oncology, Gustave Roussy and Université Paris-Sud, Villejuif, France; <sup>5</sup>Ubrm, Centre National de L'énergie, des Sciences Et des Techniques Nucléaires, Rabat,



**Santiago Room**

17.00-17.45 ETA PRIZE LECTURE

*Chairpersons: Furio Pacini, Italy and Colin Dayan, United Kingdom*

Iodine, thyroid autoimmunity and cancer

*Paolo Vitti, Italy*

**Santiago Room**

18.00-19.15 GENERAL ASSEMBLY (FOR ETA MEMBERS ONLY)