



European Thyroid Association 38th Annual Meeting

Santiago de Compostela, SPAIN | 6-10 September 2014

Scientific Programme/ Monday, 8th September

Santiago Room

08.00-09.30 SYMPOSIUM 3:

EPIDEMIOLOGY OF SPORADIC AND FAMILIAL THYROID CANCER

Chairpersons: Maria Alevizaki, Greece and Cristina Alvarez Escola, Spain

- 08.00-08.30 Regional variation in thyroid cancer incidence in Belgium
Annick van den Bruel, Belgium
- 08.30-09.00 Time trend of thyroid cancer in Italy
Cristina Romei, Italy
- 09.00-09.30 Familial non-medullary thyroid cancer
Marco Capezzone, Italy

Compostela Room

08.00-09.30 SYMPOSIUM 4: GENE REGULATION BY THYROID HORMONE RECEPTORS

Chairpersons: Ana Aranda, Spain and Duncan Bassett, United Kingdom

- 08.00-08.30 Thyroid hormone and hypothalamic functions
Balázs Gereben, Hungary
- 08.30-09.00 NCOR and SMRT in thyroid hormone action
Anthony Hollenberg, USA
- 09.00-09.30 Non classical regulation of gene expression by thyroid hormone
Lars Moeller, Germany

09.30-10.00 COFFEE BREAK

10.00-12.00 ORAL SESSION 4: THYROID AUTOIMMUNITY (OP23-OP30)

Chairpersons: Stefano Mariotti, Italy; Monica Marazuela, Spain

10.00-10.15

OP23 FIRST INTERNATIONAL STANDARDISATION OF A TSH-RECEPTOR STIMULATING AUTOANTIBODY BIOASSAY

Tanja Diana¹, Markus Lehmann¹, Jasmin Franken¹, Michael Kanitz¹, George J. Kahaly¹

¹Johannes Gutenberg University Medical Center, Mainz, Germany

10.15-10.30

OP24 MECHANISM OF TSHR ACTIVATION BY TSH AND THYROID STIMULATING ANTIBODIES

Jane Sanders¹, Ricardo Nunez Miguel¹, Paul Sanders¹, Stuart Young¹, Jadwiga Furmaniak¹, Bernard Rees Smith¹

¹Firs Laboratories, Rsr Ltd, UK

10.30-10.45

OP25 CHANGES OF SERUM TSH RECEPTOR ANTIBODIES (TRAB) LEVELS IN PATIENTS WITH GRAVES' DISEASE (GD) SUBMITTED TO RADIOIODINE THERAPY (RAI)

Irene Campi¹, Guia Vannucchi¹, Danila Covelli¹, Silvia Tirelli², Rodari Marcello³, Giovanna Pepe⁴, Arturo Chiti⁴, Mario Salvi¹

¹Department of Clinical Sciences and Community Health, Fondazione Irccs Ca' Granda Ospedale Maggiore Policlinico
²Laboratory Medicine Unit, Fondazione Irccs Ca' Granda Ospedale Maggiore Policlinico; ³Department of Nuclear Medicine, Humanitas Clinical and Research Center, Rozzano; ⁴Department of Nuclear Medicine, Humanitas Clinical and Research Center, Rozzano.

10.45-11.00

OP26 THYROID AUTOIMMUNITY IS PREVALENT IN PATIENTS WITH CELIAC DISEASE AND THEIR FIRST DEGREE RELATIVES – A PROSPECTIVE, CONTROLLED STUDY

Detlef Schuppan¹, Martin Rosenthal¹, Mareike Roth¹, Jessica Willim¹, Elisa Kolbe¹, Tanja Diana¹, George J. Kahaly¹

¹Johannes Gutenberg University Medical Center, Mainz, Germany

11.00-11.15

OP27 INCREASED REGULATORY B LYMPHOCYTES (BREG) IN PATIENTS WITH HASHIMOTO'S THYROIDITIS AND ASSOCIATED AUTOIMMUNE DISORDERS

Ilenia Gatto¹, Maria Giulia Santaguida², Giorgio Mangino¹, Susanna Carlotta Del Duca², Camilla Virili², Lucilla Gargano³, Giovanna Romeo¹, Marco Centanni⁴

¹Dept of Medico-Surgical Sciences and Biotechnologies, "sapienza" University of Rome, Latina, Italy; ²Dept of Experimental Medicine "sapienza" University of Rome, Latina, Italy; ³Endocrinology Unit, Santa Maria Goretti Hospital, Ausl Latina, Latina, Italy; ⁴"sapienza" University of Rome Dept of Medico-Surgical Sciences and Biotechnologies Latina

11.15-11.30

OP28 GRAVES' DISEASE IS ASSOCIATED WITH A DEFECTIVE EXPRESSION OF THE IMMUNE REGULATORY MOLECULE GALECTIN-9 IN ANTIGEN-PRESENTING DENDRITIC CELLS

Ana Maria Ramos Levi¹, Miguel A Sampedro-Núñez¹, Sandra Campos¹, Susana Leskela¹, Ana Serrano¹, Ana Rodriguez-Muñoz¹, Rebeca Martínez¹, Hortensia de la Fuente¹, Roberto Gonzalez-Amaro², Monica Marazuela¹

¹Hospital Universitario Princesa. Instituto de Investigación Princesa; ²Universidad San Luis Potosi

11.30-11.45

OP29 FETAL CELL MICROCHIMERISM AND HLA-G STATUS IN A LARGE SERIES OF AUTOIMMUNE THYROID DISEASES

Valentina Cirello¹, Roberta Rizzo², Milena Crippa³, Irene Campi⁴, Carla Colombo¹, Guia Vannucchi⁴, Antonia Maffini¹, Stefano Ferrero⁵, Palma Finelli⁶, Laura Fugazzola⁷

¹Department of Clinical Sciences and Community Health, University of Milan, Milan, Italy; ²Department of Medical Sciences, Section of Microbiology and Medical Genetics, University of Ferrara, Ferrara, Italy; ³Laboratory of Medical Cytogenetics and Molecular Genetics, Istituto Auxologico Italiano, Milan, Italy; ⁴Endocrine Unit, Fondazione Policlinico Irccs, Milan, Italy

⁵Division of Pathology, Fondazione Policlinico Irccs, Milan, Italy; Department of Biomedical, Surgical and Dental Sciences, University of Milan, Medical School, Milan, Italy; ⁶Laboratory of Medical Cytogenetics and Molecular Genetics, Istituto Auxologico Italiano, Milan, Italy; Department of Medical Biotechnology and Translational Medicine, University of Milan, Milan, Italy
⁷Department of Clinical Sciences and Community Health, University of Milan, Milan, Italy; Endocrine Unit, Fondazione Policlinico Irccs, Milan, Italy

11.45-12.00

OP30 GLYCOSYLATION PATTERN ANALYSIS OF GLYCOPROTEIN HORMONES AND THEIR RECEPTORS

Ricardo Nunez Miguel¹, Jane Sanders¹, Paul Sanders¹, Stuart Young¹, Jadwiga Furmaniak¹, Bernard Rees Smith¹

¹Firs Laboratories, Rsr Ltd, UK

Compostela Room

10.00-12.00 ORAL SESSION 5: TISSUE SPECIFIC ACTIONS OF THYROID HORMONE (OP31-OP38)

Chairpersons: Robin Peeters, The Netherlands and Juan Bernal, Spain

10.00-10.15

OP31 ANALYSIS OF TRANSCRIPTOMIC LANDSCAPE ENLIGHTENS THE IMPACT OF HYPOTHYROIDISM ON NEUROGENESIS.

Ghislaine Morvan Dubois⁰, Gothié Jean David¹, Clerget-Froidevaux Marie-Stephanie², Duvernois-Berthet Evelyne³, Remaud Sylvie³, Demeneix Barbara³

¹Umr 7221 Cnrs Mnhn; ²Umr 7221cnrs Mnhn; ³Umr 7221 Mnhn Cnrs, France

10.15-10.30

OP32 NF-KB SIGNALING IN THE HYPOTHALAMUS IS ESSENTIAL FOR THE RESPONSE OF THE CENTRAL HPT AXIS TO ACUTE INFLAMMATION.

Emmely de Vries¹, Ronny Haenold², Sigrun Horn², Eric Fliers¹, Falk Weih², Heike Heuer³, Anita Boelen¹

¹Academic Medical Center; ²Leibniz Institute for Age Research - Fritz Lipmann Institute (Fli); ³Leibniz Institute for Age Research - Fritz Lipmann Institute (Fli), Jena; Leibniz Research Institute for Environmental Medicine, Dusseldorf

10.30-10.45

OP33 RE-EXPRESSION OF TYPE 1 IODOTHYRONINE DEIODINASE REDUCES PROLIFERATION IN RENAL CANCER CELLS

Piotr Popławski¹, Agnieszka Piekiełko-Witkowska¹

¹Centre of Postgraduate Medical Education, Department of Biochemistry and Molecular Biology, Poland

10.45-11.00

OP34 EFFECTS OF THYROID HORMONE DERIVATIVES ON IN VITRO CHONDROGENESIS

Janine Martitz¹, Peter Hofmann², Alexandra Deichsel², Petra Seemann², Lutz Schomburg¹

¹Institute for Experimental Endocrinology; ²Charite Berlin, Germany

11.00-11.15

OP35 DIFFERENTIAL EFFECTS OF CHRONIC, INTRAHYPOTHALAMIC THYROID HORMONE ADMINISTRATION IN THE VENTROMEDIAL AND PARAVENTRICULAR NUCLEUS

Zhi Zhang¹, Ewout Foppen¹, Peter Bisschop¹, Anita Boelen¹, Andries Kalsbeek², Eric Fliers¹

¹Academic Medical Centre; ²Academic Medical Centre; Netherlands Institute for Neuroscience (Nin)

11.15-11.30

OP36 CARDIAC REGENERATION AND THYROID HORMONE: A STUDY IN METAMORPHOSING XENOPUS LAEVIS

Céline Vivien¹, Lindsey Marshall¹, Louise Péricard¹, Fabrice Girardot¹, Barbara Demeneix², Laurent Coen¹

¹Umr Cnrs 7221, Département Régulations, Développement Et Diversité Moléculaire, Muséum National D'histoire Naturelle – Paris; ²Umr Cnrs 7221, Département Régulations, Développement Et Diversité Moléculaire, Muséum National D'histoire Naturelle

11.30-11.45

OP37 THYROID HORMONE T3 IS A MITOGENIC AND ANTIAPOPTOTIC FACTOR IN RAT GRANULOSA CELLS AND FOLLICLES

Cecilia Verga Falzacappa¹, Virginia Di Paolo², Claudia Mangialardo³, Alessandra Scamporrino¹, Valentina Andriollo¹, Ilenia Cammarata¹, Silvia Misiti¹, Rita Canipari², Marco Centanni⁴

¹Experimental Medicine Department, Sapienza, University of Rome; ²Department of Anatomy, Histology, Forensic Medicine and Orthopedic, Section of Histology, Sapienza; ³Dept of Medico-Surgical Sciences and Biotechnologies, "sapienza" University of Rome, Latina, Italy; ⁴"Sapienza" University of Rome Dept of Medico-Surgical Sciences and Biotechnologies Latina

11.45-12.00

OP38 A NEW GENE PREDISPOSING TO CONGENITAL HYPOTHYROIDISM

Angela Pascarella¹, Giuseppe Ferrandino², Maria Basile², Olga Spadaro¹, Fulvio D'Angelo², Chiara D'Ambrosio³, Andrea Scaloni³, Mario De Felice², Roberto Di Lauro¹, Gabriella De Vita¹, Elena Amendola¹

¹Dipartimento DI Medicina Molecolare E Biotecnologie Mediche, Università Federico II, Napoli, Italia

²Istituto DI Ricerche Genetiche G.Salvatore, Biogem S.C.Ar.L, Ariano Irpino, Avellino, Italia

³Proteomics & Mass Spectrometry Laboratory, Ispaam, National Research Council

Poster Area

12.00-13.00 LUNCH AND POSTER DISCUSSION PO2 (POSTERS P122-238)

Poster Session 13: Graves' Orbitopathy and Autoimmunity

Chairperson: Marie-Christine Many, Belgium

Poster Session 14: Heart and Thyroid

Chairperson: Fabio Monzani, Italy

Poster Session 15: Subclinical Thyroid Disease and Hypothyroidism

Chairperson: Peter Taylor, United Kingdom

Poster Session 16: Thyroid and Environment 2

Chairperson: Massimo Tonacchera, Italy

Poster Session 17: Thyroid Cancer Diagnostics 2

Chairperson: Stéphane Bardet, France

Poster Session 18: Thyroid Cancer Pathogenesis 1

Chairperson: Thera Links, The Netherlands

Poster Session 19: Thyroid Cancer Therapeutics 2

Chairperson: Antonino Belfiore, Italy

Poster Session 20: Thyroid Hormone Availability and Action

Chairperson: Georg Brabant, Germany

Poster Session 21: Thyroid in Reproduction and Development 2

Chairperson: Kris Poppe, Belgium

Poster Session 22: Case Reports 2

Chairperson: Milos Zarkovic, Serbia

Poster Session 23: Goiter and Nodules 2

Chairperson: Laurence Du Pasquier-Fediaevsky, France

Santiago Room

13.00-14.00 ETA INDUSTRY-SPONSORED SATELLITE SYMPOSIUM 5

Hypothyroidism: New Developments in Thyroid Substitution Therapy

14.00-14.15 COFFEE BREAK

14.15-15.00 MEET-THE-EXPERT 5-8

Santiago Room

14.15-15.00 MTE 5

New insights into Graves' orbitopathy

Michele Marino, Italy

Room 14

14.15-15.00 MTE 6

Structure & Function Relationship of TH transporters

Ulrich Schweizer, Germany

Compostela Room

14.15-15.00 MTE 7

Guidelines for management of subclinical hypothyroidism in pregnancy

John Lazarus, United Kingdom

Room 25

14.15-15.00 MTE 8

Vertebrate models for studying TH metabolism and action

Veerle Darras, Belgium

Santiago Room

15.00-17.00 ORAL SESSION 6: THYROID CANCER DIAGNOSTICS (OP39-OP46)

Chairpersons: Efisio Puxeddu Italy and Manuel Puig Domingo, Spain

15.00-15.15

OP39 IS AN INCREASE IN THYROID NODULE VOLUME A PREDICTOR OF MALIGNANCY?

Hirotohi Nakamura¹, Mitsuyoshi Hirokawa¹, Minoru Kihara¹, Akihiro Miwa¹, Akira Miyauchi¹

¹Kuma Hospital, Japan

15.15-15.30

OP40 MOLECULAR TESTING OF ROUTINE AIR-DRIED FINE NEEDLE ASPIRATION (FNA) SMEARS IMPROVES PRE-SURGICAL DIAGNOSIS AND SUPPORTS THE HISTOLOGICAL IDENTIFICATION OF FOLLICULAR CARCINOMAS

Markus Eszlinger¹, Simonetta Piana², Anja Moll¹, Eileen Boesenberg¹, Ralf Paschke¹

¹Division of Endocrinology and Nephrology, University of Leipzig, Leipzig, Germany; ²Pathology Unit, Arcispedale Santa Maria Nuova-Irccs, Reggio Emilia, Italy

15.30-15.45

OP41 RE-EVALUATING THE MALIGNANCY RISK OF THYROID FOLLICULAR NEOPLASMS: A TWO-YEAR STUDY ON 598 CASES

Bénédicte Royer¹, Claude Bigorgne², Gilles Russ³, Agnès Rouxel², Marie Bienvenu⁴

¹Centre de Pathologie Et D'imagerie; ²Centre de Pathologie Et D'imagerie; La Pitié-Salpêtrière Hospital; ³Centre de Pathologie Et D'imagerie; La Pitié-Salpêtrière Hospital; Pierre and Marie Curie University; ⁴Centre de Pathologie Et D'imagerie; Cochin Hospital

15.45-16.00

OP42 DIAGNOSTIC PERFORMANCE OF ELASTOGRAPHY IN CYTOLOGICALLY INDETERMINATE THYROID NODULES

Francesca Garino¹, Maurilio Deandrea¹, Federico Ragazzoni¹, Alberto Mormile¹, Nicola Palestini², Milena Freddi², Guido Gasparri², Manuela Motta³, Donatella Pacchioni⁴, Paolo Piero Limone¹

¹Department of Endocrinology, Diabetes and Metabolism, Ao Mauriziano; ²Department of Surgery, Scu General Surgery III, Aou Città Della Salute E Della Scienza; ³Department of Diagnostic and Clinical Pathology, Ao Mauriziano; ⁴Department of Laboratory Medicine, Scu Diagnostic Anatomy and Histopathology, Aou Città Della Salute E Della Scienza

16.00-16.15

OP43 PREDICTIVE VALUE OF HIGH SENSITIVE THYROGLOBULIN ASSAY (USTG) AND NECK ULTRASONOGRAPHY (US) AT THE TIME OF REMNANT ABLATION ON LT-4 THERAPY IN PATIENTS WITH LOW AND INTERMEDIATE RISK DIFFERENTIATED THYROID CANCER (DTC)

Antonio Matrone¹, Carla Gambale¹, Eleonora Molinaro¹, Laura Agate¹, Valeria Bottici¹, Agnese Biagini¹, David Viola¹, Paolo Vitti¹, Rossella Elisei¹

¹University of Pisa, Endocrine Unit - Department of Clinical and Experimental Medicine, Pisa, Italy

16.15-16.30

OP44 LOCALLY INVASIVE PAPILLARY THYROID CARCINOMA INVOLVING A FUNCTIONING RECURRENT LARYNGEAL NERVE EXCLUSIVELY MAY BE TREATED BY SHAVING TECHNIQUE WITH MACROSCOPIC RESIDUAL TUMOR FOLLOWED BY HIGH-DOSE RADIOIODINE THERAPY

Hyoung Shin Lee¹, Kang Dae Lee¹, Jun Woong Song², Gi Yun Nam², Sung Won Kim², Seon Mi Baek³, Hyo Sang Park³

¹Department of Otolaryngology-Head and Neck Surgery, Kosin University College of Medicine; ²Kosin University College of Medicine; ³Sharing and Happiness Hospital

16.30-16.45

OP45 MOLECULAR TESTING OF RESIDUAL THINPREP MATERIAL INCREASES SENSITIVITY AND ALLOWS MOLECULAR DIAGNOSTICS FOR CYTOLOGICALLY NON-DIAGNOSTIC SAMPLES

Jeffrey Krane¹, Markus Eszlinger², Edmund Cibas¹, Ralf Paschke²

¹Department of Pathology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA; ²Division of Endocrinology and Nephrology, University of Leipzig, Leipzig, Germany

16.45-17.00

OP46 PREDICTIVE VALUE OF ULTRASENSITIVE SERUM TG AT ABLATION IN DIFFERENTIATED THYROID CANCER PATIENTS

Silvia Memmo¹, Maria Grazia Castagna¹, Valentina Belardini¹, Fabio Maino¹, Carla Fioravanti¹, Fausta Sestini¹, Gabriele Cevenini², Furio Pacini¹

¹Section of Endocrinology, University of Siena, Siena, Italy; ²Section of Surgery Bioengineering, University of Siena, Siena, Italy

Compostela Room

15.00-17.00 ORAL SESSION 7: THYROID HORMONE TRANSPORTERS AND DEIODINASES (OP47-OP54)

Chairpersons: Lutz Schomburg, Germany and Edward Visser, The Netherlands

15.00-15.15

OP47 STRONG INDUCTION OF DEIODINASES BY NOVEL SELENOCOMPOUNDS

Mette Stoedter¹, Elena Ibanez², Kostja Renko³, Janine Martitz¹, Eddy Rijntjes⁴, Nicole Pietschmann³, Alfonso Calvo², Juan A. Palop², Sanmartin Grijalba Carmen², Lutz Schomburg¹

¹Institute for Experimental Endocrinology

²Universidad de Navarra

³Charite Berlin

⁴Institut Für Experimentelle Endokrinologie, Charité - Universitätsmedizin Berlin, Germany

15.15-15.30

OP48 THR92ALA D2-POLYMORPHISM DETERMINES REDUCED T4-INDUCED APOPTOSIS IN MUSCLE STEM CELLS

Monica Dentice¹, Cristina Luongo¹, Raffaele Ambrosio¹, Tommaso Porcelli¹, Daniela Di Girolamo¹, Fausta Alfano¹, Maria Angela De Stefano¹, Domenico Salvatore¹

¹Department of Clinical Medicine and Surgery, University of Naples "federico II, Italy

15.30-15.45

OP49 FIRST INSIGHTS INTO LAT2 AS T2 TRANSPORTER AND ITS STRUCTURE-FUNCTION RELATIONSHIPS

Anita Kinne¹, Katrin Hinz², Melanie Wittner², Josef Köhrle³, Gerd Krause²

¹Leibniz-Institut Für Molekulare Pharmakologie (Fmp), Berlin, Germany; ²Leibniz-Institut Für Molekulare Pharmakologie (Fmp)

³Institut Für Experimentelle Endokrinologie, Charité - Universitätsmedizin Berlin, Germany

15.45-16.00

OP50 NOVEL THYROID HORMONE TRANSPORTERS: LAT3 AND LAT4 MEDIATE CELLULAR IODOTHYRONINE EFFLUX

Chantal Zevenbergen¹, Edward Visser¹, Robin Peeters¹, Anita Kinne², Gerd Krause², Marcel Meima¹, Theo Visser¹

¹Erasmus University Medical Center, Rotterdam, The Netherlands; ²Leibniz-Institut Für Molekulare Pharmakologie (Fmp), Germany

16.00-16.15

OP51 NEW INSIGHTS INTO THE MECHANISM OF DEIODINASE3

Ulrich Schweizer¹, Doreen Braun, Christine Schlicker³, Josef Köhrle⁴, Clemens Steegborn⁵

¹Rheinische Friedrich-Wilhelms-Universität Bonn ; Institut Für Biochemie und Molekularbiologie; ²Rheinische Friedrich-Wilhelms-Universität Bonn; Institut Für Biochemie und Molekularbiologie; ³Ruhr-University Bochum; ⁴Institut Für Experimentelle Endokrinologie, Charité - Universitätsmedizin Berlin, Germany; ⁵University of Bayreuth

16.15-16.30

OP52 FUNCTIONAL CHARACTERISTICS OF MCT8 ORTHOLOGS: INSIGHTS FROM HUMAN, MOUSE AND ZEBRAFISH

Simone Kersseboom⁰, Ramona E.A. van Heerebeek¹, Francisco J. Arjona², W. Edward Visser¹, Robin P. Peeters¹, Theo J. Visser¹

¹Erasmus University Medical Center; ²Radboud University Nijmegen, The Netherlands

16.30-16.45

OP53 HYPOTHALAMIC THYROID HORMONE SENSING REGULATES TORPOR INDUCTION.

Eva K. Wirth¹, Monja Willershäuser², Franziska Meyer¹, Eddy Rijntjes³, Marc Klein⁴, Arnaud Agin⁵, Martin Hrabě de Angelis⁶, Josef Köhrle³, Martin Klingenspor², Jan Rozman⁷, Ulrich Schweizer⁸

¹Institut Für Experimentelle Endokrinologie, Charite Universitätsmedizin Berlin; ²Molecular Nutritional Medicine, Else-Kröner Fresenius Center, Technische Universität München; ³Institut Für Experimentelle Endokrinologie, Charité - Universitätsmedizin Berlin, Germany; ⁴Service D'endocrinologie, Centre Hospitalier Et Universitaire de Nancy; ⁵Icube Umr 7357, Université de Strasbourg/Cnrs; ⁶German Mouse Clinic, Institute of Experimental Genetics, Helmholtz Zentrum München; Center of Life and Food Sciences Weihenstephan, Technische Universität München; German Center for Diabetes Research, Neuherberg

⁷Molecular Nutritional Medicine, Else-Kröner Fresenius Center, Technische Universität München; German Mouse Clinic, Institute of Experimental Genetics, Helmholtz Zentrum München; German Center for Diabetes Research, Neuherberg

⁸Rheinische Friedrich-Wilhelms-Universität Bonn ; Institut Für Biochemie und Molekularbiologie

16.45-17.00

OP54 THYROID HORMONE DEGRADING ENZYME TYPE 3 DEIODINASE (D3) IS PRESENT IN HUMAN NEUTROPHILS

Anne van der Spek¹, Monica Dentice², Domenico Salvatore³, Eric Fliers¹, Anita Boelen¹

¹Academic Medical Centre, The Netherlands; ²Department of Clinical Medicine and Surgery, University of Naples "federico II

³Università DI Napoli "Federico II", Italy