

Endocrine Abstracts

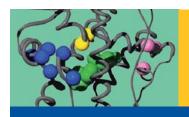
May 2021 Volume 73 ISSN 1479-6848 (online)

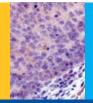


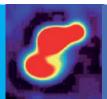
23rd European Congress of Endocrinology 2021

22-26 May 2021













e-ECE 2021

23rd European Congress of Endocrinology

22-26 May 2021, European Society of Endocrinology

EDITORS

Abstracts were marked by the Abstract Marking Panel and selected by the Programme Organising Committee

e-ECE 2021 Programme Organising Committee

Riccarda Granata (Italy). ESE Congress Committee Chair
Lars Rejnmark (Demmark). Clinical Co-Chair
Daniela Cota (France). Basic Science Co-Chair
Claus Yding Andersen (Denmark)
Cynthia Andoniadou (UK)
Ruth Andrew (UK)
Nienke Biermasz (The Netherlands)
Thierry Brue (France)
Martin Fassnacht (Germany)

Frédéric Flamant (France)
Monica R Gadelha (Brazil)
Francesco Giorgino (Italy)
Simona Glasberg (Israel)
Jörgen Isgaard (Sweden)
Josef Köhrle (Germany)
Michal Krsek (Czech Republic)
Raul Luque (Spain)
Monica Marazuela (Spain)

George Mastorakos (Greece)
Nicola Napoli (Italy)
Manel Puig Domingo (Spain)
Nicole Reisch (Germany)
Jeremy W Tomlinson (UK)
Elena Tsourdi (Germany)
Elisabeth van Rossum (The Netherlands)
Maria Chiara Zatelli (Italy)

Ex Officio Members

Andrea Giustina (Italy), ESE President
Martin Reincke (Germany), ESE President-Elect
Beata Kos-Kudla (Poland), ECE 2022 Clinical Co-Chair
Carlos Dieguez (Spain), ECE 2022 Basic Science Co-Chair

Stavroula Paschou (Greece). EYES Representative Gudmundur Johansson (Sweden). Endo ERN Representative Corin Badiu (Romania). ECAS Representative Mehul Dattani (UK). ESPE Representative

Abstract Marking Panel

I Adamski Germany M Alevizaki Greece P Alonso-Magdalena C Alvarez Spain A Anastasilakis Greece C Andoniadou UK R Andrew UK N Appelman-Dijkstra Neth-W Arlt UK J Ayuk UK S Babajko France C Badiu Romania A Baranowska-Bik Poland A Barlier France K Basham USA A Beckers Belgium P Beck-Peccoz Italy Z Belaya Russia J Bertherat France M Bidlingmaier Germany N Biermasz Netherlands W Bik Poland KI Birkeland Norway LS Bisley Denmark A Boelen Netherlands J Boguslawska Poland M Bolanowski Poland JF Bonneville France R Bouillon Belgium ML Brandi Italy D Branisteanu Romania K Briot France T Brue France C Buchanan UK P Burman Sweden H Butz Hungary C Capatina Romania M Caprio Italy P Caron France J Castaño Spain S Censi Italy A Ceriello Italy P Chanson France K Chatterjee UK M Chiara Zatelli Italy S Christin-Maitre France M Cohen-Solal France D Cota France

L Czupryniak Poland A Daly Belgium C Daousi UK M Dattani UK II de Castro Portugal W de Herder E de Koning Netherlands W Dhillo UK G Di Dalmazi Germany C Dieguez Spain U Dischinger Germany M Donath Switzerland L Duntas Greece A Dwyer USA G Effraimidis Denmark V Elian Romania T Else USA K Esposito Italy GP Fadini Italy F Fallo Italy M Fassnacht Germany I Favier France C Fekete Hungary U Feldt-Rasmussen Denmark FL Fernandes Rosa France F Ferraù Italy JB Fini France C Follin Sweden S Franks UK MS Froidevaux France J Frystyk Denmark L Fugazzola Italy CT Fuß Germany F Gabalec Czech Republic S Gaberšček Slovenia M Gahete Spain R Gärtner Germany L Gathercole UK B Gatta Cherifi France F Gatto France L Gennari Italy M Gheorghiu Romania I Gherlan Romania P Giacobini France F Gibb UK AP Gimenez-Roqueplo France F Giorgino Italy D Goulis Greece R Granata Italy

CH Gravholt Denmark D Grigorie Romania E Grineva Russia A Grossman UK L Groussin France G Gruden Italy L Guasti UK R Hampl Czech Republic F Hannan IIK A Heck Norway R Holt UK A Hubalewska-Dydeiczyk Poland I Huhtaniemi UK P Igaz Hungary I Ilovayskaya Russia E Isenovic Serbia J Isgaard Sweden ML Jaffrain-Rea Italy B Jarzab Poland K Jazdzewski Poland N Jessen Denmark D Jezova Slovakia AP Jørgensen Norway JO Jørgensen Denmark U Kaiser USA G Kaltsas Greece C Kanaka-Gantenbein Greece G Kanakis Greece N Karavitaki UK A Karlsson Sweden S Kaser Austria D Kastelan Croatia JM Kaufman Belgium M Keil USA F Kelestimur Turkey R Kineman USA T Kocjan Slovenia I Köhrle Germany J Kopchick USA B Kos-Kudla Poland CG Krausz Italy M Kroiβ Germany M Krsek Czech Republic C Kyle UK E Lalli France B Langdahl Denmark

B Lapauw Belgium

G Lavery UK

L Laviola Italy LLazurova Slovakia P Le Tissier UK L Leenhardt France H Lefebvre France J Leger France T Links Netherlands P Lips Netherlands F Lotti Italy C Luiz Boguszewski Brazil S Lund Denmark RM Luque Spain S MacKenzie UK D Macut Serbia P Makras Greece E Mamedova Russia M Mannelli Italy E Mannucci Italy F Mantero Italy G Mantovani Italy L Marina Serbia A Martinez France N Matikainen Finland C McCabe UK R Mellanby UK L Metherell UK C Mian Italy R Mitchell UK J Mittag Germany N Møller Denmark L Morin-Papunen Finland N Morton UK A Mukherjee UK M Musat Romania AM Naciu Italy S Neggers Netherlands I Newell-Price LIK D Niculescu Romania M Niedziela Poland N Nikolaou UK M Nixon UK R Nogueiras Spain P Oliveira Portugal D Olsson Sweden K Øystese Norway U Pagotto Italy N Papanas Greece A Patócs Hungary

S Pearce UK R Peeters Netherlands L Perez-Rivas Germany H Perrild Denmark L Persani Italy G Perseghin Italy A Piekiełko-Witkowska Poland R Poladian Lebanon S Polyzos Greece P Popławski Poland V Popović Serbia C Quarta France S Radian Romania O Ragnarsson Sweden N Rahman Finland W Rainey USA L Ramhoi Denmark M Rauner Germany G Raverot France M Reincke Germany L Rejnmark Denmark M Robledo Spain P Rodien France H Romijn Netherlands R Ross UK R Roussel France M Ruchala Poland E Rutten Belgium S Sancak Turkey D Santi Greece C Schalin-Jäntti Finland L Schiffer UK J Schopohl Germany D.Schulte Germany P Schwarz Denmark M Sherlock Ireland M Shestakova Russia H Siggelkow UK T Sikjaer Denmark J Skrha Austria J Smit Netherlands P Soares Portugal A Solini Italy H Sourij Austria A Spada Italy J Spranger Germany A Spyroglou Germany G Stalla Germany

E Stener-Victorin Sweden R Stimson UK K Storbeck South Africa C Strasburger Germany C Stratakis USA G Tamagno Ireland T Tankova Bulgaria M Tena-Sempere Spain N Tentolouris Greece M Terzolo Italy M Theodoropoulou Germany H Timmers Netherlands [Tomlinson UK M Toth Hungary P Touraine France R Trifanescu Romania A Tsapas Greece E Tsourdi Germany M Tzanela Greece LM Underbjerg Denmark G Valk Netherlands E van den Akker Netherlands B van der Eerden Netherlands AI van der Lelv Netherlands J van Eck Netherlands W van Hul Belgium EFC van Rossum Netherlands MC Vantyghem France G Vila Austria E Visser Netherlands J Visser Netherlands V Volke Estonia J Vrbikova Czech Republic J Widimsky Czech Republic W Wiersinga Netherlands J Wilding UK I Wilkinson UK E Winter Netherlands S Wudy Germany M Yavropoulou Greece B Yildiz Turkey W Zandee Netherlands M Zarkovic Serbia MC Zennaro France

The European Society of Endocrinology would like to thank its e-ECE 2021 sponsors and supporters:

Platinum Sponsor

Takeda

Silver Sponsors

HRA Pharma Rare Diseases Pfizer Recordati Rare Diseases

Bronze Sponsors

Advanz Pharma Advanced Accelerator Applications Alexion Ipsen Novo Nordisk UniPharma

Supporters

Amryt Pharma
Ascendis Pharma
Crinetics Pharmaceuticals
Diurnal
Roche Diagnostics
Soleno Therapeutics



European Society of Endocrinology Starling House, 1600 Parkway North, Bristol, BS34 8YU, UK Tel: +44 (0) 1454 642247
Fax: +44 (0) 1454 642222
E-mail: info@euro-endo.org

Website: http://www.endocrinology.org



Congress Secretariat:

Bioscientifica Ltd Tel: +44 (0)1454 642240
Starling House, 1600 Parkway Fax: +44 (0)1454 642222
North, Bristol, BS34 8YU, UK E-mail: ecce2021@endocrinology.org

Website: <u>www.ece2021.org</u>

CONTENTS

e-ECE 2021

23rd European Congress of Endocrinology

PRIZE LECTURES AND BIOLOGRAPHICAL NOTES

The Geoffrey Harris Prize Lecture AP1.1 The European Journal of Endocrinology Prize Lecture European Hormone Medal Lecture Clinical Endocrinology Trust Lecture Jens Sandahl Christiansen Award	AP2 AP3 AP4
PLENARY LECTURES	
Plenary 1: The hard road to new therapies against diabetes and obesity Plenary 2: Light, body clocks and sleep: Biology to new therapeutics Plenary 3: 1 Year in Pituitary Plenary 4: Neuroendocrine stress response at single cell resolution Plenary 5: 1 Year in Bone PL5.1 Plenary 6: New advances in novel targets for thyroid cancer and thyroid cancer theragnostics Plenary 7: Central and Eastern European heritage in genetics of hypopituitarism - how the prevalent ancestral PROP 1 gene variants spread overseas	PL2 1–PL3.2 PL4 1–PL5.2 PL6
SYMPOSIA	
Symposium 1: The new technology in the clinical management of thyroid nodules Symposium 2: Adrenal incidentalomas S2 Symposium 3: Expanding the benefits of GLP-1R agonists S3 Symposium 4: Peripheral neuroendocrinology S4 Symposium 5: Human foetal exposure to environmental endocrine disruptors S5 Symposium 6: COVID: The sequelae of the virus S6 Symposium 7: Inheritable metabolism S7 Symposium 8: Lessons from MDT in MEN1 patients S8 Symposium 9: Large ambitious and inspiring European prevention programs S9 Symposium 10: New approaches in pituitary pathologies from a multidisciplinary team S10.1 Symposium 11: Thyroid hormones, regulation of metabolism and energy balance S11.1 Symposium 12: What's new in cardiovascular protection and function S12.1 Symposium 13: TGF-β signalling in ovaries in women with PCOS S13.3 Symposium 14: Complex clinical cases S14.1 Symposium 15: Nutrition intervention: Not just to lose weight S15.1 Symposium 17: New advances in the managements of hypophosphatemia S17.1 Symposium 17: New advances in the managements of hypophosphatemia S17.1 Symposium 19: Emerging concerns in reproduction S19.1 Symposium 20: Diabetes and bone S20.1 Symposium 21: Hot topics in neuroendocrine tumours S21.1 Symposium 22: From adrenal stem cells to ACC S22.1 Symposium 23: Novel targets in diabesity S23.1 Symposium 24: Intermediate thyroid cancer soft or aggressive approach S24.1 Symposium 24: Intermediate thyroid cancer soft or aggressive approach	2.1-S2.3 3.1-S3.3 4.1-S4.3 5.1-S5.3 5.1-S6.3 7.1-S7.3 3.1-S8.3 9.1-S9.3 1-S10.3 1-S12.3 1-S12.3 1-S15.3 1-S15.3 1-S16.3 1-S17.3 1-S19.3 1-S20.3 1-S20.3 1-S21.3 1-S21.3 1-S22.3 1-S23.3

JOINT SESSIONS

ESE/EASD Joint Session: Diabetes and growth hormone	. JS1.1–JS1.3
ESE/ESPE Joint Session: Transition – A step into the unknown	
ESE/Endocrine Society Joint Session: Emerging endocrine abnormalities and COVID-19 outcomes	. JS3.1–JS3.5
ESE/SBEM, FASEN and SMNE Joint Session: Pituitary conditions and COVID-19	. JS4.1–JS4.3
ESE/KES Joint Session: COVID-19 and endocrine disorders	. JS5.1–JS5.3
ESE/EndoERN Joint Session: Rare endocrine disorders. Improving diagnosis, management and	
awareness by strengthening patients and physician collaboration	. JS6.1–JS6.4
ESE/EASO Joint Session: Endocrine lab findings in people with obesity and their therapeutic consequences	. JS7.1–JS7.4
ESE/Clinical Guidelines of the European Academy of Andrology: Male specific endocrine conditions	. JS8.1–JS8.3
NEW SCIENTIFIC APPROACHES	
New Scientific Approaches 1: 3D adrenal models for the study of adrenal tumors	
New Scientific Approaches 2: Regeneration or replacement of beta cells	
New Scientific Approaches 3: Cutting-edge scientific advances	
New Scientific Approaches 4: Multiplex analysis platform for endocrine disruption prediction using zebrafish	
New Scientific Approaches 5: Whole genome sequencing in cancer care, lessons from the 100,000 Genomes Project a	
opportunities for NEN	NSA5
DEBATE SESSIONS	
Debate 1: Should the biochemical spectrum primary aldosteronism be expanded?	D1.1–D1.2
Debate 2: CGM for all people with diabetes?	
Debate 3: Selenium for autoimmune thyroid disorders: necessary or unnecessary?	
Debate 4: Endocrine disruptors harmonisation in EU: The new EU Chemicals Strategy will speed up efficient	
reduction of EDC exposure for EU citizens!	D4.1–D4.2
Debate 5: Treatment breaks should be mandatory in the majority of people taking oral bisphosphonates	
Debate 6: What levels of prolactin to aim for The lower the better?	
MEET THE EXPERT BASIC SCIENTIST SESSIONS	
Meet The Expert Basic Scientist 1: Histopathology of human obese adipose organ: New insights	MTEBS1
Meet The Expert Basic Scientist 2: When and how to employ molecular genetic testing in thyroid pathology?	
Meet The Expert Basic Scientist 3: Interference of EDC with thyroid hormone binding and transport impacts on	
neural stem cell fate: from development to ageing	MTEBS3
Meet The Expert Basic Scientist 4: GWAS and mendelian randomisation studies in osteoporosis diagnosis	
MEET THE EXPERT SESSIONS	
Meet The Expert 1: New therapies in the treatment of thyroid ophthalmopathy	MTE1
Meet The Expert 2: Non-contraceptive therapeutic use of combined oral contraceptives in PCOS	
Meet The Expert 3: Long-term effects of testosterone replacement therapy	
Meet The Expert 4: What one should know on PRRT-lessons from clinical practice	
Meet The Expert 5: Craniopharyngeoma management	
Meet The Expert 6: Difficult phaeochromocytoma cases	
Meet The Expert 7: Do you know how to define sarcopenic obesity?	MTE7
Meet The Expert 8: GH replacement in adults	MTE8
Meet The Expert 9: Sequential osteoporosis treatments	MTE9
Meet The Expert 10: Outlook for male fertility preservation	MTE10
Meet The Expert 11: Cardiovascular risk reduction in endocrine patients	
Meet The Expert 12: Pituitary surgery bites	
Meet The Expert 13: Marrow adiposity and bone	
Meet The Expert 14: For the use of AMH as a diagnostic tool in female reproduction	
Meet The Expert 15: Challenges in genetic counseling for hereditary endocrine neoplasia syndromes	MTE15

ORAL COMMUNICATIONS

One Communications 1. Advantage of Conditions and a Fordage in the spiral and	001 1 001 6
Oral Communications 1: Adrenal and Cardiovascular Endocrinology	
Oral Communications 2: Diabetes, Obesity, Metabolism and Nutrition	
Oral Communications 3: Pituitary and Neuroendocrinology	
Oral Communications 4: Reproductive and Developmental Endocrinology	
Oral Communications 5: Thyroid	
Oral Communications 6: Calcium and Bone	
Oral Communications 7: Diabetes, Obesity, Metabolism and Nutrition	
Oral Communications 8: Pituitary and Neuroendocrinology	
Oral Communications 9: Endocrine-Related Cancer	OC9.1–OC9.6
Oral Communications 10: Thyroid	OC10.1–OC10.6
Oral Communications 11: Adrenal and Cardiovascular Endocrinology	OC11.1–OC11.6
Oral Communications 12: Diabetes, Obesity, Metabolism and Nutrition	OC12.1–OC12.6
Oral Communications 13: Pituitary and Neuroendocrinology	
Oral Communications 14: Across Endocrinology	
Oral Communications 15: Late Breaking	
Young Investigator Awards	
Toung investigator / waters	
PRESENTED EPOSTERS	
PRESENTED EFOSTERS	
Presented ePosters 1: Adrenal and Cardiovascular Endocrinology	PEP1.1–PEP1.8
Presented ePosters 2: Diabetes, Obesity, Metabolism and Nutrition	
Presented ePosters 3: Pituitary and Neuroendocrinology	
Presented ePosters 4: Reproductive and Developmental Endocrinology	
Presented ePosters 5: Thyroid	
Presented ePosters 6: Calcium and Bone	
Presented ePosters 7: Diabetes, Obesity, Metabolism and Nutrition	
Presented ePosters 8: Pituitary and Neuroendocrinology	
Presented ePosters 9: Endocrine-Related Cancer	
Presented ePosters 10: Thyroid	
Presented ePosters 11: Adrenal and Cardiovascular Endocrinology	
Presented ePosters 12: Diabetes, Obesity, Metabolism and Nutrition	
Presented ePosters 13: Pituitary and Neuroendocrinology	
Presented ePosters 14: COVID-19	
Presented ePosters 15: Late Breaking	PEP15.1-PEP15.8
AUDIO EPOSTER PRESENTATIONS	
Adrenal and Cardiovascular Endocrinology	AFP1 AFP80
Calcium and Bone	
Diabetes, Obesity, Metabolism and Nutrition	
Endocrine-Related Cancer	
Environmental Endocrinology	
General Endocrinology	
Pituitary and Neuroendocrinology	
Reproductive and Developmental Endocrinology	
Thyroid	
Late Breaking	AEP782–AEP895

EPOSTER PRESENTATIONS

Adrenal and Cardiovascular Endocrinology	EP1–EP21
Calcium and Bone	EP22–EP42
Diabetes, Obesity, Metabolism and Nutrition	EP43-EP124
Endocrine-Related Cancer	EP125-EP131
General Endocrinology	EP132-EP142
Pituitary and Neuroendocrinology	EP143-EP174
Reproductive and Developmental Endocrinology	EP175-EP187
Thyroid	EP188-EP230
Late Breaking	EP231-EP240

AUTHOR INDEX