

The joint 22nd ENS@T and 2nd COST Harmonis@tion meeting

11 – 13 October 2023, Dubrovnik, Croatia



Harmonis@tion



Wednesday 11th October 2023

14.00 – 17.00	Adrenal Tumor Masterclass – Chairs: Mercedes Robledo, Felix Beuschlein	
	14.00 – 14.30	Following guidelines or practical workarounds in primary aldosteronism (Marcus Quinkler)
	14.30 – 15.00	Adrenocortical cancer – time for personalized treatment options? (Matthias Kroiss)
	15.00 – 15.30	Mechanisms of transcriptional regulation – Goldilocks and the pathogenesis of adrenocortical carcinoma (Enzo Lalli)
	15.30 – 16.00	Data sharing, reality or (science) fiction? (Eva Ortega)
	16.00 – 16.30	Data sharing, reality or (science) fiction?" Part 2 (Fátima Al-Shahrour)
	16.30 – 17.00	Round Table with the Founders of ENSAT: How to develop a successful research network Chairs: Cristina Ronchi, Felix Beuschlein ENSAT Founders: Xavier Bertagna, Massimo Manelli, Franco Mantero, Martin Reincke, Paul Stewart
17.00 – 17.30	Coffee break	
17.30 – 18.30	Harmonisation WG1 & WG2 meeting	
18.30 – 19.30	Harmonisation WG3 & WG4 meeting	
19.30 – 20.00	Harmonisation WG5 meeting	
20.30 – 22.00	Welcome reception (gathering of the Founders and the future of the Network)	

Thursday 12th October 2023

08.00 – 09.00	Harmonisation Management Committee meeting	
09.00 – 19.00	ENSAT/Harmonisation Conference	
	09.00 – 09.15	Welcome address and practical information
09.15 – 11.15	<p>Oral communications (ACC) – Chairs: Enzo Lalli, Michaela Luconi</p> <p>OR1: Ablation of Znr3 & Trp53 induces metastatic adrenocortical carcinoma in mice (Diana Garcia-Garcia)</p> <p>OR2: Tumor microenvironment of adrenocortical carcinoma dissected by single-cell RNA-sequencing (Anne Jouinot)</p> <p>OR3: Cellular landscape of adrenocortical carcinomas at single-nuclei resolution reveals signature heterogeneity and feature of tumour aggressiveness (Barbara Altieri)</p> <p>OR4: Cancer cell xenograft in zebrafish embryos as a promising new experimental tool for drug screening in Adrenocortical Carcinoma (Mariangela Tamburello)</p> <p>OR5: FSCN1 as a new druggable target in adrenocortical carcinoma (Carmen Ruggiero)</p> <p>OR6: Performance of targeted sequencing in paraffin-embedded samples for prognostic classification of adrenocortical carcinoma (Cristina Ronchi)</p> <p>OR7: Mitotane induces GDF15 expression in adrenocortical carcinoma - a potential therapy-induced mechanism of immune escape (Isabel Weigand)</p> <p>OR8: Neoantigens - a chance to improve immunotherapy in adrenocortical carcinoma? (Laura-Sophie Landwehr)</p> <p>OR9: Serum inflammation-based scores in a large cohort of adrenocortical carcinomas and adrenocortical adenomas: a comparative study and role of the hormonal secretion pattern (Alessandra Mangone)</p> <p>OR10: Prolonged Exposure To Target Mitotane Concentrations Is Associated With Better Recurrence-Free Survival In Patients With Adrenocortical Carcinoma On Adjuvant Treatment (Soraya Puglisi)</p> <p>OR11: EO2401 peptide immunotherapy + nivolumab in adrenocortical carcinoma (ACC); the Phase 1/2 EOADR1-19/SPENCER trial (NCT04187404) (Eric Baudin)</p>	
11.15 – 12.15	Coffee break – Poster guided tour (ACC/PPGL) – Chairs: Michaela Luconi, Enzo Lalli (ACC); Elena Rapizzi, Henri Timmers (PPGL)	
12.15 – 14.00	<p>Oral communications (ACC/PPGL) – Chairs: Matthias Kroiss, Massimo Terzolo</p> <p>OR12: Specific characteristics of the genomic profile, tumor microenvironment and vascular structure of PPGLs with MAML3 fusions (Maria Monteagudo)</p> <p>OR13: Interaction between hypoxia signalling and kynurenine pathway in pheochromocytoma and paraganglioma (PPGL) (Nicole Bechmann)</p>	

continued on the next page

12.15 – 14.00 <i>continued from the previous page</i>	<p>OR14: Evaluating microRNAs as circulating biomarkers for the prediction of malignant paraganglioma and pheochromocytomas (<i>Tom Drossart</i>)</p> <p>OR15: Monitoring metastatic pheochromocytomas and paragangliomas using plasma cell-free DNA sequencing (<i>Carlota Arenillas</i>)</p> <p>OR16: ROR-1 specific CAR-T cells with CRISPR/Cas9 mediated glucocorticoid receptor-knockout exert potent antitumor efficacy in advanced adrenocortical carcinoma (<i>Marc Philipp Schauer</i>)</p> <p>OR17: Testosterone, macrophages and senescence: novel therapeutic options for ACC? (<i>Diana Garcia-Garcia</i>)</p> <p>OR18: Identification of adrenocortical masses malignancy and aggressivity through radiomics: a pilot study (<i>Lorenzo Tucci</i>)</p> <p>OR19: Evaluation and Validation of an adapted pediatric S-GRAS-score (<i>Verena Wiegering</i>)</p> <p>OR20: Decrease in anticortisolic drug osilodrostat plasma exposure in patients treated with mitotane for an adrenocortical carcinoma (<i>Louis Thomeret</i>)</p>
14.00 – 15.00	Lunch
15.00 – 16.50	<p>Oral communications (PPGL) – Chairs: Judith Favier, Rodrigo Toledo</p> <p>OR21: Tracking pheochromocytoma evolution reveals multiple routes to metastasis, low intratumoral heterogeneity and an independent clonal origin in multiple disease (<i>Ester Arroba</i>)</p> <p>OR22: Single-cell chromosome and transcriptome analysis as a diagnostic tool to differentiate between benign and metastatic pheochromocytoma and sympathetic paraganglioma (<i>Annika Berends</i>)</p> <p>OR23: Heterogeneity of the tumor microenvironment across PPGL metastases (<i>Bruna Calsina</i>)</p> <p>OR24: Differences in the catecholamine secretion machinery in pheochromocytomas and paragangliomas (<i>Nicole Bechmann</i>)</p> <p>OR25: Recurrent disease in patients with sporadic parasympathetic head and neck paraganglioma (<i>Christina Pamporaki</i>)</p> <p>OR26: Bone metastases and skeletal related events in pheochromocytoma and paraganglioma patients. International, retrospective study (<i>Marta Lagana</i>)</p> <p>OR27: Impact of surgical technique on hemodynamic instability during minimally invasive surgery for pheochromocytoma (<i>Amir Hossein Chaman Baz</i>)</p> <p>OR28: Responses to systemic therapy in metastatic pheochromocytoma and paraganglioma (<i>Katharina Wang</i>)</p> <p>OR29: Sunitinib for malignant progressive pheochromocytomas and paragangliomas (<i>Eric Baudin</i>)</p> <p>OR30: EO2401 peptide immunotherapy + nivolumab in metastatic pheochromocytoma/paraganglioma (MPP); the Phase 1/2 EOADR1-19/SPENCER trial (NCT04187404) (<i>Alfredo Berruti</i>)</p>
16.50 – 17.45	Coffee break – Poster guided tour (APA/NAPACA) – Chairs: Sheerazed Boulkroun, Marcus Quinkler (APA); Guido Di Dalmazi, Martin Fassnacht (NAPACA)
17.45 – 19.15	ENSAT Registry
19.15 – 20.15	APA/NAPACA WG meeting

Friday 13th October 2023

08.00 – 09.00	ENSAT general assembly
09.00 – 11.25	<p>Oral communications (APA/NAPACA) – Chairs: Cristina Ronchi, Darko Kastelan</p> <p>OR31: Whole blood transcriptomic signature of Cushing's syndrome (<i>Maria Francesca Birtolo</i>)</p> <p>OR32: Constitutional duplication of PRKACA gene is a cause of isolated Primary Pigmented Nodular Adrenocortical Disease (PPNAD): results of its systematic screening in Macro- and Micronodular Nodular Adrenal Hyperplasia (<i>Patricia Vaduva</i>)</p> <p>OR33: Identification and characterization of molecular heterogeneity in PBMAH by MALDI-MSI and RNA-Sequencing (<i>Sharmilee Vetrivel</i>)</p> <p>OR34: Study of somatic molecular heterogeneity in bilateral macronodular adrenocortical disease (BMAD) by NGS panel in a cohort of 26 patients (<i>Florian Violon</i>)</p> <p>OR35: Primary Unilateral Macronodular Adrenal Hyperplasia (PUMAH) With Concomitant Glucocorticoid And Androgen Excess due to KDM1A inactivation and constitute MC2R activation" (<i>Cristina Ronchi</i>)</p> <p>OR36: Reconstitution of human adrenal cortex development and steroidogenesis, a new paradigm towards stem-cell based endocrinology (<i>Kotaro Sasaki</i>)</p> <p>OR37: Role of the mineralocorticoid receptor in the physiology of the adrenal cortex and the development of aldosterone producing adenomas (<i>May Fayad</i>)</p> <p>OR38: Single-Nuclei Analysis of Aldosterone-Producing Adenoma (<i>Masanori Murakami</i>)</p> <p>OR39: Modulation of calcium signaling "on demand" to decipher the molecular mechanisms responsible for primary aldosteronism (<i>Bakhta Fedlaoui</i>)</p> <p>OR40: The Association of Adrenal Steroids on the Metabolomic Differences in Primary Hyperaldosteronism vs Primary Hypertension (<i>Zoran Erlic</i>)</p> <p>OR41: Urine steroid metabolomics as a diagnostic tool in endocrine hypertension (<i>Alessandro Prete</i>)</p> <p>OR42: Inflammation-based scores in benign adrenocortical tumours are linked to the degree of cortisol excess (<i>Vittoria Favero</i>)</p> <p>OR43: The cardiometabolic risk in patients with non-functioning adrenal incidentaloma: an observational, retrospective and propensity score matched study (<i>Mirko Parasiliti-Caprino</i>)</p>
11.25 – 11.50	Coffee break
11.50 – 13.20	ACC/PPGL WG meeting

Poster guided tour

Topic: ACC	
Title	Author
WEE1 kinase inhibitor, adavosertib (AZD1775), is a novel potential therapeutic strategy for advanced adrenocortical carcinoma in addition to standard chemotherapies.	Tamburello Mariangela
Targeting the Ferroptosis-Macrophage Crosstalk in Adrenocortical Carcinoma (ACC)	Triebig Alexandra
Towards an understanding of the microenvironment of ACC: Impact of steroid hormones and driver pathways	Maier Tanja
Assessing Monocyte Migration and Co-Culture with Adrenocortical Cancer Cells	Hong Cong
Expert Consensus: Recommendation for Mitotane treatment in pediatric ACC	Riedmeier Maria
High filamin A expression in adrenocortical carcinomas is associated with a favourable tumor behaviour: a European multicentric study	Peverelli Erika
Investigating the role of deubiquitinases in adrenocortical carcinoma	Fuss Carmina Teresa
Topic: APA	
Title	Author
Differences in circulating miRNA expression in plasma samples taken directly from adrenal veins in uni- and bilateral primary aldosteronism	Vékony Bálint
Postoperative dyslipidemia with lipoprotein (a) elevation in patients with primary hyperaldosteronism compared to other adrenal disorders	Masjukur Jimmy
Comparison of cardiovascular events and target organ damage between primary aldosteronism subtypes: a multicenter ENSAT study	Bioletto Fabio
Improvement of Screening for Primary Aldosteronism using Sex- and Renin-adjusted Cut-offs for Aldosterone	Fuld Sybille
Left Ventricular Pressure strain; novel and early prognostic factor for the Primary Aldosteronism	Akkus Gamze
The impact of surgical versus medical therapy on renin plasma activity, renal function, and hypertension control in patients with primary aldosteronism	Rolak Stacey
Vascular and hormonal interactions in primary aldosteronism	Faedda Nicolo'
Topic: NAPACA	
Title	Author
HDAC2 regulated pathways in hypercortisolic adrenal pathology.	Vetrivel Sharmilee
ACTH responses during the human corticotropin-releasing hormone stimulation test can predict biochemical remission after unilateral adrenalectomy in Primary Bilateral Macronodular Adrenal Hyperplasia	Tiziani Irene
ARMC5 regulates SIRT1 expression in adrenocortical cells	Berthon Annabel
Safety of Adrenalectomy in Elderly Patients: A Retrospective Matched Case-Control Study	Vietor Charlotte L.
In vitro analysis of miRNA based regulation in Cushing's syndrome	Xia Xiaohui
Adrenal incidentalomas and psychometric aspects	Mytarelli Chrysoula
Hidden Cortisol excess in patients with type 2 Diabetes and Obesity (DOCOR study)	Morelli Valentina
Topic: PGL	
Title	Author
Relationship between metanephrine levels and inflammation-based scores in patients with pheochromocytoma	Parazzoli Chiara
Activation of the Integrated Stress Response in SDHx knock-out cells	Salsbury Grace
An immunohistochemical tool to detect or validate variants in the NF1 gene in pheochromocytomas	Sanceau Julie
Immunohistochemical analysis of somatostatin receptor 2, HIF-2 α and the tumor microenvironment in metastatic pheochromocytoma and paraganglioma	Uchihara Masaki
Validation of PASS and GAPP overall score for malignancy prediction in pheochromocytoma and paraganglioma.	Tucci Lorenzo
Detection Tumour and Plasma cell-free DNA exome sequencing in advanced metastatic paraganglioma	Moreno Cárdenas Ana Belén
Canine adrenomedullary and pheochromocytoma organoids: an in vitro model to explore new treatment options	Sara Galac

Poster presentation

Topic: NAPACA	
Title	Author
Presentation and management of adrenal tumours over time: a real-life experience from a UK tertiary care centre.	Suntornlohanakul Onnicha
Urinary steroid profiling by liquid-chromatography tandem mass spectrometry: Method Validation and comparison to GC-MS.	Sayda Mariwan H
Salivary Steroid Profile: the simultaneous quantification androgens, glucocorticoids and mineralocorticoids in human saliva	Bain Joshua
Outcome of unilateral adrenalectomy in bilateral adrenal adenomas/hyperplasia, associated with mild autonomous cortisol excess: a systematic review and meta-analysis.	Papalou Olga
Results of follow-up in a case series of bilateral macronodular adrenal disease (BMAD)	Nuta Andreea-Gabriela
Metyrapone treatment in mild hypercortisolism	Aresta Carmen
Adrenal incidentaloma case-control study: Highlight on a different approach to identify controls	Giordano Imbroli Miriam
A systematic and meta-analysis review regarding prevalence of bilateral adrenocortical incidentalomas	Sousa Diana
Radiological and Clinical Interfaces of Adrenal Tumors	Galinaityte Inesa
Plasma ACTH levels as a confounding parameter in diagnosing adrenal Cushing syndrome, due to assay-specific issues: the paradigm of a clinical case	Katechakis Nikolaos
Bilateral adrenal hemorrhage: learning notes from clinical practice and literature review	Aloini Maria Elena
A case of elevated 17-hydroxyprogesterone and mild autonomous cortisol secretion (MACS)	Siampanopoulou Vasiliki
Topic: APA	
Title	Author
An overview of adrenal vein sampling for primary aldosteronism in Croatia (2016-2023)	Zibar Tomsic Karin
New data on the diagnosis prevalence and treatment of primary aldosteronism: the experience of a single endocrinology center	Markou Athina
Topic: ACC	
Title	Author
Bone fragility in patients with adrenocortical carcinoma undergoing mitotane therapy	Cosentini Deborah
Evolutionary profiling of advanced adrenocortical carcinoma	Backman Samuel
Inflammation-based scores predict toxicity and outcome in advanced adrenocortical carcinoma patients treated with EDP-M chemotherapy.	Cremaschi Valentina
High dose rate brachytherapy combined with PD-1 blockade as a treatment for metastatic adrenocortical carcinoma	Schwarzmueller Paul
SIAH1, a regulator of the Wnt/ β -catenin pathway in adrenocortical cells	Puygrenier Pierre
Estrogen-mimetic effect of mitotane in patients affected by adrenocortical carcinoma: a prospective observational cohort study	Turla Antonella
IGF2R: a new player in the insulin-like growth factor 2 (IGF2) pathway sustaining adrenocortical carcinoma cells growth.	Nozza Emma
Therapeutic potential of targeting the FLNA-binding partner Wee1 in adrenocortical carcinomas	Esposito Emanuela
Chemotherapeutic Resistance in Adrenocortical Carcinoma	Feely Sarah
Circulating tumor cells: a novel technique for single cell isolation and analysis in adrenocortical carcinoma	Cantini Giulia
Insulin-like growth factor 1 receptor (IGF1R) and insulin receptor (IR) different roles in primary and metastatic adrenocortical carcinoma cells	Catalano Rosa
Somatic Mutations in Adrenocortical Carcinoma: Investigating New Prognostic Biomarkers	Zhang Liang

Topic: ACC (continued from the previous page)	
Title	Author
Gene regulation by beta-catenin and NR5A1 in adrenocortical carcinoma: are we getting it right ?	Lalli Enzo
The Impact of Surgery on Survival of Patients Presenting with Metastasized Adrenocortical Carcinoma: A Systematic Review and Meta-Analysis	Vietor Charlotte L.
Time trends in adrenocortical carcinoma between 1993 and 2020	Steenard Rebecca
The intratumoral microbiota composition modulates adrenocortical cancer responsiveness to mitotane	Fei Laura
Outcomes of patients with recurrent adrenocortical carcinoma	Vodanović Ivana Dora
Adrenocortical carcinoma cells rewire their metabolism to overcome curcumin antitumoral effects opening a window of opportunity to improve treatment	Nocito Marta Claudia
MSI Status as a prognostic marker of response to immunotherapy, in patients with metastatic adrenocortical carcinoma (ACC)	Boudina Maria
Adrenal cortical carcinoma initially mistaken for an oncocytic tumor- case study.	Węgrzyn Karolina
Long-term survival of a patient with metastatic adrenocortical carcinoma	Ziółkowska Barbara
Nivolumab-induced primary adrenal insufficiency: a case report and a review of the literature	Angelousi Anna
Topic: PPGL	
Title	Author
Effect of commonly used drugs on fractionated methanephine concentrations in 24-hour urine collection in patients with incidentaloma	Opalińska Marta
Large international collaborative study on the role(s) of succinate dehydrogenase (SDH) gene variants in paraganglioma-pheochromocytoma phenotypes	Bayley Jean-Pierre
Mi RNAs expression pattern in Pheochromocytomas and paragangliomas: a prognostic tool?	Thanasoula Foteini
Characterisation of adult sdhb zebrafish mutants to study SDHB-associated paragangliomas	Dona Margo
Genotype characterisation of Romanian patients with PGLs	Lider Sofia
Identification of novel susceptibility genes in head and neck paragangliomas	Mellià Sara
Proteins and peptides from the granin family and INSM-1 in the biochemical diagnostics of pheochromocytoma.	Glinicki Piotr
Role of succinate and SUCNR1 in human pheochromocytoma cells	Amore Francesca
Composite pheochromocytoma as a common neoplasm in NF1	Rzepka Ewelina
Neuropeptide Y (NPY) and Human cocaine- and amphetamine-regulated transcript (CART) in patients with adrenal pheochromocytoma.	Szatko Alicja
A clinicopathologic analysis of 5 kindreds with MEN2A in Greece carrying the uncommon mutation of (Gly533Cys) in exon 8 of RET protooncogene.	Koukoulou Chrysoula
Incidence and geographic distribution of pheochromocytoma and paraganglioma in Slovak population	Jochmanova Ivana
Peptide Receptor Radionuclide Therapy (PRRT) in inoperable/metastatic PPGLs – time to expand PRRT indications?	Souteiro Pedro
Adrenal hemorrhage in pheochromocytoma – a rare and life-threatening condition	Saravinovska Kristina
Walking the Tightrope: Pregnancy and Pheochromocytoma Management	Manojlović Mia
PRRT treatment of metastatic paraganglioma with SDHB mutation	Mlekus Kozamernik Katarina
Hypertensive crisis, acute cerebrovascular event and polycystic kidney disease in patient with an adrenal tumor	Petkovic Tijana
Rare thromboembolic complications after pheochromocytoma surgery	Antić Natalija
Adenomatoid tumour of adrenal gland, primarily thought to be a pheochromocytoma.	Minasyan Mari
Is it a real adrenal mass? A case of a giant retroperitoneal tumor in the course of probable type I neurofibromatosis.	Kluczyński Lukasz
From routine PSA check to MEN 2A diagnosis	Vrčkovnik Rok
Topic: Other	
Title	Author
The 3D in vitro Adrenoid model recapitulates the complexity of the adrenal gland in cancer condition.	Propato Arianna Pia
Intelligent chatbots for prognosing adrenal tumour disease in endocrine patients with hereditary conditions based on certain preclinical symptoms	Mizera-Pietraszko Jolanta
Deep learning approaches applied to image classification of kidney tumours	Amador Sandra
Human security approach in ethical and legal assessment of human subjects research	Sprincean Serghei
Ectopic Cushing's syndrome in the pediatric age	Biondo Irene



Get the Abstract Book