



Harmonis@tion



## Program

# The Joint 23<sup>rd</sup> ENS@T and 3<sup>rd</sup> Cost Harmonis@tion Meeting

October 2<sup>nd</sup>-4<sup>th</sup>, 2024, Palma de Mallorca, Spain

ACC: Adrenocortical carcinoma

APA: Aldosterone Producing Adenomas

PPGL: Pheochromocytomas and Paragangliomas

NAPACA: Non-Adosterone Producing Adrenocortical Adenomas

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## Wednesday, October 2<sup>nd</sup>

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### Cost Harmonization Adrenal Tumour Masterclass

Chairs: Martin Fassnacht and Mercedes Robledo

- 13.45-14.00** Welcome address  
Rodrigo Toledo, Darko Kastelan, Guillaume Assié
- 14.00-14.30** “How AI can improve management of cancer patients”  
Bastien Rance
- 14.30-15.00** “Are microRNAs helpful to predict metastases in ACC and PPGL?”  
Peter Igaz
- 15.00-15.30** “Kids with ACC/PPGL are not just little adult patients - difference between paediatric and adult disease”  
Verena Wiegering
- 15.30-16.00** “Innovative clinical trial design in rare tumours”  
Jaume Capdevila
- 16.00-16.25** “How to best share clinical data?”  
Anthony Stell
- 16.25-16.40** Clinical PPGL case  
Julien Riancho
- 16.40-16.55** Clinical ACC case  
Anja Barac Nekić

- 16.55-17.10** Clinical APA case  
Marcus Quinkler
- 17:10-17.25** Clinical NAPACA case  
Anna Angelousi
- 17:25-17.40** Patients associations and Paradifference Foundation
- 17.40-18.00** Coffee Break
- 18.00-18.45** Harmonisation WG1-2 meeting: Harmonizing clinical practice for adrenal tumours
- 18.45-19.30** Harmonisation WG3-4 meeting: Harmonizing Information Technology (IT)/Artificial Intelligence (AI) tools towards a standardized registry
- 19.30-20.00** Harmonisation WG5 meeting: Communication, dissemination, and inclusiveness.
- 20.00-22.30** Welcome reception and dinner at the Auditorium rooftop
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## Thursday 3rd October 2024

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- 08.00-09.00** Harmonisation Management Committee meeting (only for the Committee)
- 09.00-19.00** ENSAT/HARMONISATION CONFERENCE
- 09.00-09.05** Welcome address and practical information
- 09.05-09.45** ENSAT General Assembly
- 09.45-10.15** ENSAT Registry 1/2
- 10.15-12.15** Oral communications (ACC) – Chairs: *Massimo Terzolo, Marta Araujo*
- OR1:** Single-nucleus atlas of adrenocortical carcinoma (ACC) reveals tumor ecotypes associated with outcome (*Anne Jouinot*)
- OR2:** Glucocorticoid excess drives receptor tyrosine kinase ROR1 expression and efficacy of glucocorticoid resistant ROR1 CAR-T cells in advanced adrenocortical carcinoma (*Marc Philipp Schauer*)
- OR3:** Gene expression patterns can predict response to mitotane treatment in adrenocortical carcinoma; the first step towards a personalized treatment approach (*Charlotte Vietor*)
- OR4:** AI-guided identification of risk variants for adrenocortical tumors in p.R337H TP53 carrier children (*Enzo Lalli*)

**OR5:** Ablation of Znr3 & Trp53 induces metastatic adrenocortical carcinoma in mice (*Diana Garcia-Garcia*)

**OR6:** Mitotane treatment of adrenocortical carcinoma induces Growth differentiation factor 15 (GDF-15) secretion and is associated with poor prognosis and impaired responsiveness to immunotherapy (*Isabel Weigand*)

**OR7:** Does the national ENDOCAN-COMETE network improves the survival of adrenocortical carcinomas in France? (*Rossella Libe*)

**OR8:** Outcome of patients with adrenocortical carcinoma (ACC) with rare histological subtypes - an ENS@T study (*Otilia Kimpel*)

**OR9:** Advances in T cell-based immunotherapeutic approaches for adrenocortical carcinoma (*Laura-Sophie Landwehr*)

**OR10:** Serum metabolomics reveals widespread metabolic dysregulation in adrenocortical carcinoma (*Vasileios Chortis*)

**OR11:** Impact of Environmental Pollution on Adrenocortical Carcinoma in Italy (*Soraya Puglisi*)

**12.15-13.15 Lunch - Poster Guided Tour (ACC/PPGL) – Chairs: Barbara Altieri (ACC), María Calatayud (PPGL)**

**13.15-15.00 Oral communications (ACC/PPGL) – Chairs: Guillaume Assié (ACC), Elena Rapizzi (PPGL)**

**OR12:** ACCacia, a novel machine-learning approach for adrenocortical carcinomas molecular classification in routine care (*Victor Gravrard*)

**OR13:** Cellular landscape of adrenocortical carcinoma at single-nuclei resolution (*David Tourigny*)

**OR14:** Adrenal Cortical Organoids as Disease Models and Patient Avatars (*Jelte Yoran van der Vaart*)

**OR15:** Clinical Predictors of Treatment Response in Advanced Adrenocortical Carcinoma: A Multicentre ENSAT Study (*Alessandra Mangone*)

**OR16:** Plasma circulating tumor DNA as a prognostic biomarker in metastatic pheochromocytoma and paraganglioma (mPPGL) (*Carlota Arenillas*)

**OR17:** Facilitated decision-making for screening patients with suspected phaeochromocytoma and paraganglioma: a machine learning modeling cross sectional study (*Christina Pamporaki*)

**OR18:** Copy-number phylogenies in primary-metastases paired samples from mPPGL patients: the missing piece (*Ester Arroba*)

**OR19:** Anti-angiogenic Therapy in the First Patient-derived Xenograft Model of Pheochromocytoma (*Hermine Mohr*)

**OR20:** 2023 SDH Genotype-Phenotype Study (*Jean-Pierre Bayley*)

15.00-16.00 Coffee Break

16.00-17.50 **Oral communications (PPGL)** – Chairs: *Judith Favier, Maribel del Olmo*

**OR21:** Combinatorial therapeutic targeting of PI3K and CDK4/6 displays synergistic antitumor effects in pheochromocytoma (*Bhargavi Karna*)

**OR22:** International consensus statement on the diagnosis and management of pheochromocytoma and paraganglioma in children and adolescents (*Ruth Casey*)

**OR23:** Benefits of medical therapy with alpha-adrenergic inhibition pre-operatively for secretory paragangliomas – more than just blood pressure control (*Nicola Tufton*)

**OR24:** The impact of sex hormones on pheochromocytomas and paragangliomas (*Katharina Wang*)

**OR25:** Clinical Diagnosis and Management of Pheochromocytoma and Paraganglioma in Children and Young People (CYP): A National Guideline - on Behalf of the UK Paediatric Pheochromocytoma and Paraganglioma Guideline Development Group (*Prateek Yadav*)

**OR26:** Sex-dependent differences in catecholamine secretion machinery in pheochromocytomas and paragangliomas (*Gintarė Žygienė*)

**OR27:** Circulating markers of inflammation in patients with pheochromocytoma and paraganglioma (*Margo Dona*)

**OR28:** Development and validation of a clinico-pathological model to early detect cluster 1 mutations in patients with pheochromocytoma and paraganglioma (*Mirko Parasiliti-Caprino*)

**OR29:** Clinical characteristics and management of FH-related pheochromocytomas and paragangliomas: what we learned from a large Italian kindred and the literature review (*Andrea Contarino*)

**OR30:** Cardiovascular and metabolic phenotypes of patients with pheochromocytoma and paraganglioma (*Alessia Pinna*)

17.50-18.45 Coffee Break – **Poster Guided Tour (APA/NAPACA)** – Chairs: *Sheerazed Boulkroun (APA), Felicia Hanzu (NAPACA)*

18.45-19.45 **ENSAT KIDS/APA/NAPACA WG meeting**

20.00-23.00 **Dinner and ENSAT Awards at the auditorium**

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## Friday 4th October 2024

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**08.00-08.30** ENSAT Registry 2/2

**08.30-10.55** Oral communications (APA/NAPACA) - Chairs: *Cristina Ronchi, Marcus Quinker*

**OR31:** A Newly Developed Severity Classification and its Strategic Application in the Clinical Practice of Primary Aldosteronism (*Masanori Murakami*)

**OR32:** New cell and animal models to decipher the molecular mechanisms of primary aldosteronism (*Bakhta Fedlaoui*)

**OR33:** NTpro-BNP levels in patients with primary hyperaldosteronism and autonomous cortisol co-secretion (*Anna Hirsch*)

**OR34:** Preclinical in vitro characterization of CYP11B2 inhibitors by continuous flow-through cell culture – impacts on steroidogenesis enzyme kinetics (*Dennis Fröbel*)

**OR35:** Short-Term Effect on Tissue Sodium Distribution in Hypertensive Patients Following Sodium Loading Test: a Sodium MRI study (*Sven Gruber*)

**OR36:** Incident changes of the 1mg-overnight dexamethasone suppression test correlate with mortality and other long-term clinical outcomes in patients with adrenal incidentalomas: results from the multi-centre DEX-AI and CORTEX-AI ENSAT studies (*Onnicha Suntornlohanakul*)

**OR37:** Long-Term Cardiovascular Outcomes in Patients With Bilateral Adrenal Cortisol Secreting Tumors Depending on Different Treatment Approaches (*Elisabeth Nowak*)

**OR38:** Light chromatography and mass spectrometry proteomic analysis of formalin fixed tissue of Bilateral Macronodular Adrenocortical Disease (BMAD) (*Florian Violon*)

**OR39:** Surgical Versus Conservative Management for MACS: the CHIRACIC prospective randomized trial (*Antonie Tabarin*)

**OR40:** Carney complex patients carrying the c.709-7\_709-2del PRKAR1A pathogenic variant or a PRKACA constitutive duplication present mostly an adrenal restricted phenotype with Cushing syndrome due to Primary Pigmented Nodular Adrenal Disease (PPNAD) (*Patricia Vaduva*)

**OR41:** Combined [18F]Fluorodeoxyglucose PET and [123I]Iodometomidate-SPECT for diagnostic evaluation of indeterminate adrenal neoplasias – the prospective cross-sectional diagnostic test accuracy study FAMIAN (*Stefanie Hahner*)

**OR42:** Macrophage polarisation in patients with autonomous cortisol excess (*Ana Crastin*)

**OR43:** Prediction of adrenal mass nature through radiomics and deep learning: preliminary results from the ENS@T RADIO-AI multicentric study (*Lorenzo Tucci*)

**10.55-11.20** Coffee Break & Oral communication awards

**11.20-11.50** Future ENSAT meetings

**11.50-13.20** ACC/PPGL WG meeting

**13.20-13:30** Farewell Palma!

## Poster Guided Tour

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**Topic: ACC**

Title	Author
STING agonist-dependent cytosolic DNA-sensing restores intratumoral IFN $\gamma$ R expression and potently enhances CAR-T cell efficacy in adrenocortical carcinoma	Schauer Marc Philipp
Adrenocortical tumor cells induce M2-like polarization of human monocytes through alternative secretion of prostaglandin E2 (PGE2) and glucocorticoids	Triebig Alexandra
Activity and safety of cisplatin plus nivolumab in advanced adrenocortical carcinoma patients	Rodella Sara
Glucocorticoid-dependent metabolic rewiring enhances B7-H3 expression and efficacy of dual targeting logic gate CAR-T cells in adrenocortical carcinoma	Schauer Marc Philipp
Wnt/ $\beta$ -Catenin pathway activation is not associated with immune cell infiltration or steroid phenotype in adrenocortical carcinoma (ACC)	Maier Tanja
Risk factors for venous thromboembolism in adrenocortical carcinoma patients: a multicentre retrospective evaluation	Trevisan Benedetta
Understanding the role of the immune microenvironment in adrenocortical carcinoma tumor progression: first step towards development of effective immunotherapy?	Voisin Allison
Assessing Human Monocyte Migration and Co-Culture with Adrenocortical Cancer Cells	Cong Hong

**Topic: APA**

Title	Author
Improved selectivity of adrenal venous sampling with the use of alternative steroids to cortisol	Alessi Francesco
Role of the mineralocorticoid receptor in the physiology of the adrenal cortex and the development of aldosterone producing adenomas	Fayad May
Influence of smoking on cardiometabolic profile and surgical outcomes in patients with primary aldosteronism. A series of 881 cases.	Araujo- Castro Marta
Impact of cortisol-cosecretion on adrenal venous sampling results in primary aldosteronism. Study of 225 cases.	Lamas Cristina
Update on the utility of circulating miRNA and deep learning for differentiating uni- and bilateral primary aldosteronism	Vekony Balint
Phenotype and outcome of patients with primary aldosteronism and primary bilateral macronodular adrenocortical hyperplasia: a multicenter retrospective study.	Panarelli Annalisa
KASAI score as a predictive tool for the primary aldosteronism subtyping	Pierman Guillaume
Prevalence of metabolic-associated fatty liver disease in patients with primary aldosteronism	Tizianel Irene
Sexually Dimorphic Changes in Adrenocortical Cell Transdifferentiation and Activation of Signalling Pathways in Response to Pathophysiological Stimuli	Faedda Nicolo'

**Topic: NAPACA**

Title	Author
Natural history of bilateral adrenal incidentalomas: a large monocentric cohort study	Palmieri Serena
Fragility fractures are associated with cortisol secretion in patients with nonfunctioning adrenal incidentalomas	Favero Vittoria
Long-term follow-up of familial BMAD with ARMC5 pathogenic variants	Charchar Helaine L.
Single-Nucleus RNA Sequencing Reveals The Impact of High-Fat Diet on Mouse Adrenal Gland.	Murakami Masanori
Role of cfDNA-based biomarkers in classification of Adrenocortical Adenomas	Tourigny David S

Reconstitution of human adrenal gland development using pluripotent stem cells	Sasaki Kotaro
Associated malignant tumors in patients with Nonfunctioning Adrenal Incidentaloma	Campioni Lorenzo
Dysregulation of salivary cortisol rhythm in non-secreting and mild cortisol-secreting adrenal incidentalomas	Coscia Kimberly
Correlation Between Basal ACTH and Number of ACTH Receptor Immunoreactive Cells in Adrenal Adenomas	Danielsson Malin

**Topic: PPGL**

Title	Author
An investigation into a potential novel predisposing mutation leading to dysregulated mitochondrial metabolism in hereditary paraganglioma and pheochromocytoma	Westbrook Rebecca
Canine pheochromocytoma organoids: an in vitro animal model	Galac Sara
Unveiling the Role of Horizontal Mitochondria Transfer in SDH-Deficient Paraganglioma and Pheochromocytoma Tumorigenesis	San-Juan-Guardado Jaime
FH gene mutations and cancer predisposition: elucidating the specific tumorigenesis mechanisms associated with hereditary paraganglioma	Cajamarca Ocampo Sara
Role of the kynurenine pathway in PPGL treatment strategies	Zygiene Gintare
Study of the therapeutic potential of dimethylfumarate in SDH-deficient paragangliomas and pheochromocytomas: Induction of ferroptosis and clinical implications	JACQUET Amandine
Advancing Cellular Models and Understanding Molecular Pathogenesis in Paraganglioma and Pheochromocytoma Research	Cubiella Tamara
Characterization of paraneoplastic inflammatory anemias associated with metastatic pheochromocytomas or paragangliomas	Moog Sophie
Multi-omic characterisation of SDHx and FH knockout cell lines to identify novel molecular mechanisms contributing to phaeochromocytoma and paraganglioma (PPGL)	Salsbury Grace



## Poster Presentation

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### Topic: ACC

Title	Author
Hierarchical clustering approach to diagnosing carcinoma of adrenal cortex	Mizera-Pietraszko Jolanta
Circulating micro-RNAs are valuable biomarkers for the diagnosis and surveillance of adrenocortical tumors.	Mytareli Chrysoula
Tumour board evaluation of exemplary paediatric ACC-patients in 8 international centres	Wiegering Verena
Mitotane kinetics and neuropsychological outcome in paediatric ACC patients on behalf of the ENSAT-PACT group	Wiegering Verena
Targeted molecular analysis in pediatric adrenocortical carcinoma for an improved personalized prognostication	Riedmeier Maria
Clinical and pathological characteristics of children with adrenocortical tumors: Hacettepe experience with 54 cases	Yalçın Bilgehan
Adrenal oncocytic neoplasm of uncertain malignant potential- case study	Węgrzyn Karolina
Sphingosine kinase 1 inhibitor safinol as a new possible therapeutic strategy for adrenocortical carcinoma	Nozza Emma
Use of PLK1 and multiple CDKs inhibitors as a novel approach for the treatment of adrenocortical carcinomas	Esposito Emanuela
Adrenocortical tumors in pediatric population- diagnostic and therapeutic challenges from the perspective of one tertiary pediatric endocrine centre	Janus Dominika
Effect of manipulation of IR alternative splicing in adrenocortical carcinoma (ACC) cells	Catalano Rosa
Decreased expression of humanin during Adrenocortical carcinoma progression	Blatkiewicz Malgorzata
Extraordinary response to mitotane monotherapy in advanced aggressive adrenocortical carcinoma.	Aloini Maria Elena

Lipid synthesis seems to drive proliferation in Men1 mouse adrenals and human adrenocortical cell lines	Edholm Adam
A targetable antioxidant defense mechanism to EZH2 inhibitors enhances ACC vulnerability to ferroptosis	Nocito Marta Claudia
Prognostic role of pretreatment 18F-FDG PET/CT in patients affected by adrenocortical carcinoma and treated with chemotherapy.	Bettini Davide Lorenzo
Mitotane effect on Wnt pathways and cytokines secretion in ACC spheroids	Abate Andrea
Aldosterone producing Adrenocortical Carcinoma: systematic review of existing literature.	Bulfone Luca
Steroids levels measured directly in adrenocortical tumors tissue reveal discrepancies with circulating levels, suggesting a fine regulation of steroids export	Bonnet- Serrano Fidéline
Effect of Progesterone on 2D and 3D Experimental Cell Models of Adrenocortical Carcinoma Treated with EDP-M scheme.	Tamburello Mariangela
Understanding the Needs and Challenges of Patients with Adrenocortical Carcinoma: An Interdisciplinary Perspective	Roszkowska Zuzanna
SIAH1, a regulator of the Wnt/ $\beta$ -catenin pathway in adrenocortical cells	Puygrenier Pierre
The p16 promoter methylation rate validation in adrenocortical carcinoma	Božović Ana
Multi-tissue profiling of adrenocortical cancer-related miRNome and possible regulatory effects of long-term chronic or intermittent caloric restriction	Emen Merve
Diagnostic Work-up in Paediatric Adrenocortical Tumours – International Consensus through a DELPHI process	Idkowiak Jan
Cured Advanced Adrenocortical Carcinoma After Immunotherapy? A Case Report	Mollazadegan Kazhan
Hormonally active adrenocortical cancer in the course of MEN1 syndrome.	Kluczyński Łukasz
Advanced stage of adrenocortical carcinoma: therapeutic approach, pathological and biological findings	Cossa Alessandra
Exploring Surgical Frontiers: A Case Study of Advanced Adrenal Cortex Carcinoma with Inferior Vena Cava Involvement in a Young Patient.	Kłosowski Przemysław
Adrenocortical carcinoma with complete response to EDP-M	Falkman Lovisa

Targeted NGS Molecular Profiling and Its Clinical Application in Adrenocortical Cancer	Cioppi Francesca
Impact of a mutation in one of the genes of the mismatch repair (MMR) system on the clinical phenotype and response to treatment of metastatic adrenocortical cancer	Moog Sophie
Testosterone and its downstream effectors in anti-tumour response in ACC	Garcia-Garcia Diana
Targeting of CDK1/2/5/9 in Preclinical Models of Adrenocortical Carcinoma	Tamburello Mariangela
Antioxidant defense in adrenocortical tumors: Down-regulation of NNT and lncRNA NNT-AS1 associates with poor prognosis	Bodoni Aline Faccioli
Bioinformatics analysis of the CDKN2A gene expression in adrenocortical carcinoma	Kožik Bojana
Modulability of stemness and secretory immune profile in adrenocortical cancer – insights from preclinical models	Luca Edlira
Mitotane Induces Non-Apoptotic Cell Death in Treatment Resistant Models of Adrenocortical Carcinoma	Feely Sarah
A Snapshot of Adrenocortical Carcinoma in Spain: Insights from the Icarus Registry	Hanzu Felicia
Treatment-related adverse events associated to mitotane in patients with adrenocortical carcinoma: a multicenter ENSAT study.	Altieri Barbara
Adult and pediatric patients with adrenocortical carcinoma associated with the same germline oncogenic variant TP53 (p.R337H) and different outcome: The influence of somatic variants in ACC	Menezes Leandro
Constitutively active Wnt/beta-catenin signaling controls small extracellular vesicle biogenesis, composition and secretion in adrenocortical carcinoma	Bangoura Mohamed
Prognostic factors influencing survival in patients with metastatic adrenocortical cancer	Barac Nekić Anja

**Topic: APA**

Title	Author
Serum MicroRNA as peripheral markers in primary aldosteronism.	Makhnov Nikita
An attempt for a new screening test to predict the response to saline infusion test in primary aldosteronism.	Spyroglou Ariadni

The effect of adrenalectomy on metabolic parameters in patients with primary aldosteronism	Đukić Mirjana
The usefulness of left adrenal vein sampling in classifying primary hyperaldosteronism subtypes	Koukoula Chrysoula
Evaluation of two confirmatory tests for the diagnosis of primary aldosteronism	Matrozova Joanna
Prevalence and Main Characteristics of Primary Aldosteronism in PBMAH: A Systematic Review of the Literature	Panarelli Annalisa
Systemic inflammatory burden in primary hyperaldosteronism: a systematic review and results of original data	Mori Ubaldini Giulia
The Association between Primary Aldosteronism and Primary Hyperparathyroidism: Two Case Reports	Risio Alessandro

### Topic: NAPACA

Title	Author
An Artificial Intelligence-based Decision Support System for Classifying Patients with Adrenal Incidentalomas	Binas Dimitrios
Longitudinal Monitoring of Adrenal Steroid Excretion: Hair Analysis.	Fensome Grace
Quantitation of 29 urinary steroids using Liquid Chromatography Tandem Mass Spectrometry	Bain Joshua
Adrenal Tumors in the Albanian Population	Mitre Anila
Clinical Characteristics of Patients with Classical Congenital Adrenal Hyperplasia: A Single Centre Experience	Mlekuš Kozamernik Katarina
Urinary steroidome investigation by dilute & shoot LC-MS analysis: a potential novel tool for characterizing adrenal tumors	Ponzetto Federico
Bilateral adrenal oncocytic tumour of uncertain malignant potential in a patient with classical congenital adrenal hyperplasia due to 21-hydroxylase deficiency.	Kurzyńska Anna
Robotic assisted adrenal surgery: recent advances	Yiannakopoulou Eugenia
Adrenal sparing surgery and primary macronodular bilateral adrenal hyperplasia: Systematic Review	Yiannakopoulou Eugenia

Adrenal incidentaloma and subclinical Cushing: minimally invasive adrenalectomy versus active surveillance	Yiannakopoulou Eugenia
Plasma steroid profiling in patients with adrenal tumors – preliminary study	Szatko Alicja
Cortisol levels after 1 mg dexamethasone suppression test are associated with increased intima-media thickness	Parazzoli Chiara
Cardiometabolic comorbidities and cardiovascular events in “non-functioning” adrenal incidentalomas: a systematic review and meta-analysis	Parazzoli Chiara
Non-functioning adrenal tumors in relationship with the mineral metabolism, bone turnover markers and bone mineral density assessment amid the presence of diabetes mellitus	Manda Dana
Surgical outcome of Coagulation factors in Mild Autonomous Cortisol Secretion	Morelli Valentina
Associations of imaging phenotypes with clinical and biochemical characteristics in macronodular adrenal disease	Georgiadi Sofia
Clinical and hormonal characterisation of a cohort of patients with bilateral macronodular adrenocortical disease (BMAD)	Nuta Andreea-Gabriela
The Origin of Myxoma in the Brain Parenchyma: Emboli vs. Metastasis	Weber Kuhn Aliny
Uncertainly pathogenic germline allelic variant of Armc5 in dogs with Bilateral Adrenal Lesions Associated with Cushing's Syndrome	De Marco Viviani
Cardiovascular risk assessment in NAPACAs with co-existent PCOS: a joint ENS@T project	Spyroglou Ariadni
Adrenal Tumor Pathologies	Mitre Anila
Persistent Hypercortisolaemia in Cushing’s syndrome: A Case Report	Htut Zin

**Topic: PPGL**

<b>Title</b>	<b>Author</b>
Dashboard Visualization of the Trajectory of Patients with Metastatic Pheochromocytoma and Paraganglioma for Precision Medicine	Uchihara Masaki
Safety of Biopsy in Pheochromocytoma/paraganglioma	Zhang Liang
Clinical and molecular analysis of paragangliomas - a single tertiary center experience	Opalińska Marta

Chromogranins and derived peptides in biochemical diagnosis of adrenal incidentalomas and catecholamine-producing tumors	Glinicki Piotr
Efficacy of RET inhibitors in the management of advanced, RET mutated pheochromocytoma. Review of published cases with the addition of 2 new cases.	Cremaschi Valentina
Ectopic Cushing's syndrome from ACTH producing pheochromocytoma with paradoxical ACTH decrease after osilodrostat	Hána Václav
Metastatic paragangliomas – real world data in a single tertiary center.	Thanasoula Foteini
A study on incidence and related characteristics of PPGLs in a well-defined population	Giordano Imbroli Miriam
3P Syndrome – Incidental Coexistence or causal relationship	Rzepka Ewelina
Role of the tumoral micro environment in SDHx mutated Paraganglioma and Pheochromocytoma development	Sanceau Julie
Novel germline TMEM127 mutation in a patient with pheochromocytoma and breast cancer	Jochmanova Ivana
Pheochromocytoma-induced pseudo-Cushing syndrome	Bobrowicz Malgorzata
Familial Paragangliomatosis with SDHD gene mutation	Tasouli Elisavet Charikleia
A case of concurrent RET and FH gene mutations in a patient with metastatic pheochromocytoma	Siampanopoul ou Vasiliki
The Founder effect in PPGLs-behind the genetic clusters classification	Lider Burciulescu Sofia Maria
Fifth postoperative day urinary metanephrine and normetanephrine levels as a marker for PPGLs surgery outcome	Vodanovic Ivana Dora
False Positive Diagnosis Of Pheochromocytoma: A Retrospective Study From A Single Center	Zawadzka Karolina
Comprehensive metabolite assessment in carriers of SDHx mutations	Lim Eugenie S.
Deciphering mechanisms of metastasis in paragangliomas and pheochromocytomas: Insights from SDHB-deficient tumors through epigenetic and proteomic analyses	Chiara María- Dolores
Cardiac paragangliomas related to SDHD mutation	Thanasoula Foteini

Unique Presentation of Pheochromocytoma in a Female Carrier of Germline X-linked ATRX Mutation: A Case Report

Tichomirowa  
Maria

**Topic: OTHER**

Title	Author
Innovative Approaches and Valorisation in Adrenal Gland Research: Pioneering Solutions for ACC, PCC/PGL, APA, and NAPACA	Zacharis Theo
Undifferentiated retroperitoneal sarcoma mimicking an adrenal tumor.	Tkacz Edyta
Adrenal tumours in MEN1 patients – beyond the 3 P's	Souteiro Pedro
Clinical profile of patients with adrenal insufficiency admitted for hyponatremia	Borozan Sanja
Impact of diagnosis and targeted interventions on the quality of life and cognition of patients with adrenal tumours: a systematic review	Prete Alessandro
Primary Adrenal Angiosarcoma Presenting with life threatening hemorrhage.	Klosowski Przemyslaw
Large tumors of adrenal glands diagnosed as metastases of burned-out germ cell tumor of the testis - a case report.	Tywanek Ewa
Adrenalectomy improves direct metabolic consequences of mild autonomous cortisol secretion	Grethe Ueland