Pituitary Gland Disorders

Main Lines of Research

- ERCUSYN: European Registry on Cushing syndrome. Initiated with funding from SANCO, EU Public Health Programme.
- Role of myosteatosis in the development and persistence of residual muscular fragility in treated acromegaly and Cushing’s syndrome. Study of the mechanisms involved.
- Spanish Molecular Registry of Pituitary Adenomas (REMAH study).
- Morbimortality, low-grade inflammation and cardiovascular risk in patients with acromegaly or Cushing syndrome.
- International consortium collaboration to identify genes and pathogenetic mechanisms involved in the development of craniopharyngiomas and pituitary adenomas.
- Neuroradiological, neuropsychological and clinical study of endogenous hypercortisolism: comparison of Cushing syndrome and chronic major depressive disorder.
- Validation of psychological properties of specific questionnaires to evaluate health-related quality of life (HRQoL) in Cushing syndrome and acromegaly.
- Study of bone microarchitecture and resistance and their predictors in patients with Cushing’s syndrome and acromegaly in remission. A model to investigate the interaction between bone and body fat.
- Aetiology of cardiopathy in acromegaly and its relation to body composition.
- Role of telomeres in endocrine diseases.

Challenges

- Investigate the neuropsychological, neuroradiological and clinical correlation of patients with endogenous hypercortisolism (due to Cushing syndrome or chronic major depressive disorder) or exogenous exposure to low-dose glucocorticoids (due to treatment of adrenal insufficiency or rheumatoid arthritis). Similar studies for acromegaly.
- Evaluate long-term morbidity and mortality in patients who have had Cushing syndrome or acromegaly in the last 35 years, especially bone quality, muscular dysfunction and quality of life.
- Analyse and update the European database of patients with Cushing syndrome (ERCUSYN), which in 2017 included over 1600 patients from 57 centres in 36 countries.
- Conduct in vitro molecular analysis of operated pituitary adenomas within the REMAH (Molecular Registry of Pituitary Adenomas) study, sponsored by the Spanish Endocrinology and Nutrition Society.

Active Grants


Note: Total amount granted to PI. It does not include indirect costs.

Grants Awarded in 2017


Note: Total amount granted to PI. It does not include indirect costs.

Coordinator
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Members
Resmini, Eugenia CIBERER
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Collaborations with other IIB Sant Pau Groups


- Collaboration with the Neuromuscular Research Group led by Dr Isabel Illa, specifically with Dr Jordi Manero, to evaluate muscle in patients treated for acromegaly and Cushing syndrome.

External Collaborations

- Bilateral research between E Resmini and Richard Lee of Baltimore University, Departments of Psychiatry and Medicine, the Johns Hopkins University School of Medicine. It has generated the publication Resmini E., Santos A., Aulinas A., Webb S.M., Reduced DNA methylation of FKBP5 in Cushing’s syndrome. (2016) ENDOCRINE, 54 (3), 768-77.

- Genetic, molecular and clinical characterisation of craniopharyngioma. St Bartholomew’s Hospital and The London Charity Hospital. With Dr. Carles Gaston-Massuet.

- Participation in the project of Personalized Medicine of the ISCIII. Improved and efficient therapy of acromegaly by implementation of a personalized and predictive algorithm including functional analysis, imaging and genomic information (number PMP 15/00027). Global PI: Manel Puig Domingo. Participating PIs:
  - IGTP Group/CIBERER GP: Manel Puig Domingo (PI)
  - Sant Pau Group/CIBERER 747: Susan Webb (PI), E Resmini, E Valassi, A Santos, I Crespo, A Aulinas
  - IDIBAPS/Clinic Group/CIBERER GV: Irene Halperin (PI)
  - Hospital de la Ribera Group (Alzira): Carmiña Fajardo (PI)
  - Hospital de la Princesa Group (Madrid)/CIBERER GP: Mónica Marazuela (PI)
  - Complejo Hospitalario de Santiago de Compostela Group: Ignacio Bernabéu (PI)
  - Hospital Universitario de Alicante/CIBERER GV: Antonio Picó (PI)
  - IMS Health:Montserrat Roset (PI)

- Silent corticotrope adenomas: Are they a subtype of more aggressive non-functioning pituitary adenomas? Project funded by CIBERER in the competitive call on Translational Medicine, 2015-2016. PI: Antonio Picó (Alacant). Participating Units: U747-A. Webb (S Pau); U725A-L. Castaño (Bilbao); GCV 13_Picó (Alacant); GCV 11_Halperin (H Clinic Barcelona); GCV 12_Marazuela (Hosp Princesa, Madrid); GCV 14_Puig (Hospital GTIP, Badalona); GCV 15_Soto (HUV Rocio Sevilla).
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*Total Impact Factor  **Mean Impact Factor

Scientific Production

IF: 3.077

IF: 3.179

IF: 2.730

IF: 4.122

IF: 3.077

IF: 2.730

Santos A., Resmini E., Pasquali J.C., Crespo I., Webb S.M., Psychiatric Symptoms in Patients with Cushing’s Syndrome: Prevalence, Diagnosis and Management (2017) DRUGS, 77 (8), 829-842.
IF: 4.690

IF: 2.583

IF: 2.766

IF: 4.333

IF: 4.333

IF: 3.077

IF: 2.730

IF: 4.333