

Andrology

Group leader

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Researchers

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Sarquella Geli, Joaquim (F. Puigvert)

Vives Suñe, Álvaro (F. Puigvert)

Research technicians

Spinelli, Matilde (F. Puigvert)



DESCRIPTION

The Group focuses on different fields, the most important of which are: a) diagnosis and treatment of male/female sexual dysfunction (erectile dysfunction, premature ejaculation, Peyronie disease, hypoactive sexual desire), b) diagnosis and treatment of male infertility (genetics of male infertility and reproductive genomics, oncofertility), c) sexual transmitted infections, and d) endocrinological impairments related to male infertility and sexual dysfunctions (hypogonadism, hyperprolactinemia, and obesity). This activity is oriented to improve medical and surgical approaches for each issue.

MAIN LINES OF RESEARCH

- Genetics applied to male infertility. (Krausz, Csilla Gabriella).
- Male fertility preservation in oncological patients. (Krausz, Csilla Gabriella).
- Optimisation of preimplantation genetics diagnosis and in vitro fertilization techniques. (Martínez Pasarell, Olga).
- New surgical procedures, drugs and medical devices applied to diagnosis, prevention and treatment of andrological diseases and conditions (male sexual dysfunction, hypogonadism, Peyronie disease, premature ejaculation, sexually transmitted diseases). (Ruiz Castañé, Eduard).
- Sexually transmitted diseases and public health. (Vives Suñe, Alvaro).

- Quality of life and integral sexual approach: gender and psychological aspects. (Maestre Loren, Francesc).

SCIENTIFIC CHALLENGES

- To improve our knowledge and thereby enhance healthcare for patients, we seek to continue active projects, develop new lines of investigation, increase the number of international publications, train professionals, and improve collaboration with hospital and university groups both within and outside the IIB Sant Pau.
- To promote awareness and divulge sexuality as a health topic and as a central aspect of global health and quality of life, inclusive of chronic and ill patients, to professionals who require a broad and multidisciplinary approach to their patients.
- To work up the relationship with patient associations and progressively incorporate them as a work team to develop responsible research with relevant results with social impact.

ACTIVE & AWARDED GRANTS

- Bassas Arnau, Lluís. Impact of COVID-19 on male reproductive health. 202128-31. Fundació La Marató de TV3. Duration: 2021-2024. 50.000,00 €
- Krausz, Csilla Gabriella. Caracterización genómica de la azoospermia debido a sólo células de Sertoli: desarrollo de un panel de genes con valor diagnóstico y pronóstico pre-biopsia testicular. PI23/00425. Instituto de Salud Carlos III (ISCIII). Duration: 2023-2026. 102.500,00€
- Krausz, Csilla Gabriella. Análisis del exoma en pacientes azoospermicos con bloqueo de la espermatogénesis: desarrollo de un panel genico con valor diagnóstico y pronóstico pre-biopsia testicular. PI20/01562. Competitive project, Instituto de Salud Carlos III (ISCIII). 2020. Duration: 2021-2024, 97.889,00 €

DOCTORAL THESES DEFENDED

- Maestre Loren, Francesc. Regulació afectiva del malestar en la disfunció sexual: Aferrament, psicopatologia, disfunció erètil i qualitat de la relació de parella. 28/06/2024. Universitat Ramon Llull. Supervisors: Ignasi Cifre, Josep Castillo.

SCIENTIFIC PRODUCTION

- Cocci A, Pezzoli M, Lo Re M, Ralph D, Christopher N, Osmonov D, Bettocchi C, Djinovic R, Antonini G, Levine L, Salamanca J, Otero JR, Egydio P, Iribarren IM, Hatzichristodoulou G, Perito P, Antoine F, Park HJ, Rolle L, Kadioglu A, Ruiz E, Van K, Valenzuela RJ, Wilson SK, Tomada N, Capece M, Falcone M. The efficacy of penile duplex ultrasound in erectile dysfunction management decision-making: facing the opinion leader. Journal of Men's Health. 2024; 20(6). DOI:10.22514/jomh.2024.084. IF:0,600 (Q4/10D). Document type: Article.
- Cosentino M, Di M, Boeri L, Ferraioli G, Lucignani G, Ricapito A, Gadda F, lafrate M, Mancini M, Dal F, Ruiz E, Bettocchi C, Montanari E, Sofikitis N. Conservative treatment of Peyronie's disease: a guide. WORLD JOURNAL OF UROLOGY. 2024; 42(1):317. DOI:10.1007/s00345-024-04975-6. PMID:38740620. IF:2,800 (Q2/3D). Document type: Article.
- De Rocco Ponce M, Quintian Schwieters CF, Meziere J, Sánchez Curbelo JR, Abad Carratalá G, Troka E, Bassas Arnau L, Ruiz Castañé E, Martínez Barcina MJ, Rajmil O. A Study of the Relationship Between Objective Tests to Diagnose Erectile Dysfunction and Markers of Cardiovascular Disease. Journal of Clinical Medicine. 2024; 13(21):6321. DOI:10.3390/jcm13216321. PMID:39518460. IF:3,000 (Q1/2D). Document type: Article.
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fragmentation may persist for up to 3 years after cytotoxic therapy in patients affected by Hodgkin lymphoma and non-Hodgkin lymphoma. HUMAN REPRODUCTION. 2024; 39(3). DOI:10.1093/humrep/dead269. PMID:38177083. IF:6,000 (Q1/1D). Document type: Article.

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- Jacques-Aviñó C, Alarcón Guitiérrez M, Barbera MJ, Fuertes I, Martín-Ezquerro G, Lopez-Contreras J, Vives Á, Rodríguez R, Ros M, Rius C, de Olalla PG. Epidemiological Characteristics and Factors Associated with Repeat Sexually Transmitted Infections in Barcelona, Spain Over a Decade. Arch Sex Behav. 2024; 53(2):735-744. DOI:10.1007/s10508-023-02711-6. PMID:37875628. IF:2,900 (Q1/1D). Document type: Article.
- Lillepea K, Juchnewitsch AG, Kasak L, Valkna A, Dutta A, Pomm K, Poolamets O, Nagirnaja L, Tamp E, Mahyari E, Vihlajev V, Tjagur S, Papadimitriou S, Riera A, Versbraegen N, Farnetani G, Castillo H, Sutt M, Kubarsepp V, Tennisberg S, Korrovits P, Krausz C, Aston KI, Lenaerts T, Conrad DF, Punab M, Laan M. Toward clinical exomes in diagnostics and management of male infertility. AMERICAN JOURNAL OF HUMAN GENETICS. 2024; 111(5). DOI:10.1016/j.ajhg.2024.03.013. PMID:38614076. IF:8,100 (Q1/1D). Document type: Article.
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Conrad DF, O'Carroll D, Tüttelmann F. Inherited defects of piRNA biogenesis cause transposon de-repression, impaired spermatogenesis, and human male infertility. Nature Communications. 2024; 15(1):6637. DOI:10.1038/s41467-024-50930-9. PMID:39122675. IF:14,700 (Q1/1D). Document type: Article.