ANDROLOGY GROUP

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MAIN LINES OF RESEARCH

Genetics applied to male infertility.

Optimisation of preimplantation genetics diagnosis and in vitro fertilization techniques.

Clinical research into new surgical procedures, drugs and medical devices applied to andrological diseases and conditions (male sexual dysfunction, hypogonadism, Peyronie disease, premature ejaculation, sexually transmitted diseases).

CHALLENGES

Our multidisciplinary team of professionals develops translational research in the field of diagnosis and treatment of andrological disorders. To improve our knowledge and thereby improve healthcare for patients, we seek to continue active projects, develop new lines of

investigation, increase the number of international publications, train professionals and enhance collaboration with hospital and university groups inside and outside the IIB Sant Pau.

COLLABORATIONS WITH IIB SANT PAU GROUPS

- Nephrology

EXTERNAL COLLABORATIONS

National Collaborations

- Medical and Molecular Genetics Centre (RI)-IDIBELL: genetics applied to infertility.
- Cellular Biology and Medical Genetics Unit-UAB: preimplantation genetic diagnosis techniques.

International Collaborations

- Mario Serio Experimental and Clinical Biomedical Sciences Unit, University of Florence: genetics applied to male infertility.
- Reproductive Genomics Laboratory, Human Genetics Centre (KU Leuven): genetics applied to male infertility.
- New England Research Institutes: hypogondadism.
- European Academy of Andrology: radiology examinations of the male genital tract.

Private Collaborations

- Participation in clinical studies including clinical trials and postauthorization studies sponsored by national and international pharmaceutical companies.

ACTIVE GRANTS

- “Estudio genético y genomico de subtipos específicos de azoospermia secretora: desarrollo de nuevas herramientas diagnosticas y pronosticas”. Krausz C. Exp: PI14/01250. Instituto de Salud Carlos III (FEDER cofounded). Duration: 2015-2017. 86,500 €.

AWARDS

- O. Lopez, A. Mata, A. Garcia, O. Martinez, R. Gusta, J. Sanchez, MJ. Saiz, C. Chianese, D. Lo Giacco, O. Bogle, C. Attardo, R. Olivia, Ll. Bassas. Caracterizacion funcional de patrones especificos de teratozoospermia severa. Best communication. 17 Congreso Nacional de Andrologia, Medicina Sexual y Reproductiva. La Pineda (Vila-Seca, Tarragona), 8-10 May.

- O. Lopez, A. Mata, A. Garcia, O. Martinez, R. Gusta, J. Sanchez, MJ. Saiz, C. Chianese, D. Lo Giaco, O. Bogle, C. Attardo, R. Oliva, Ll. Bassas. Caracterizacion funcional de patrones especificos de teratozoospermia severa. Best poster. XVII Congreso Nacional de Andrologia, Medicina Sexual y Reproductiva. Gran Canaria, 14-16 May.

THESES

- C Chianese. “Genetic and Epigenetic Aspects of Male Infertility”. Universita degli studi di Firenze. Director: C Krausz. 27th Mars

SCIENTIFIC PRODUCTION

TIF: 26.0510 MIF: 3.2564

Chianese C., Fino M.G., Riera Escamilla A., Lopez Rodrigo O., Vinci S., Guarducci E., Daguin F., Muratori M., Tamburrino L., Lo Giacco D., Ars E., Bassas L., Costa M., Pisatauro V., Noci I., Coccia E., Provenzano A., Ruiz-Castane E., Giglio S., Piomboni P., Krausz C., Comprehensive investigation in patients affected by sperm macrocephaly and globozoospermia. (2015) ANDROLOGY-US, 3 (2), 203-212. IF: 2.5150

Cosentino M., Sarquella J., Ruiz-Castane E., Priapism secondary to tamsulosin: A case report. (2015) REV INT ANDROL, 13 (1), 37-39. IF: 0.2380

Daina G., Ramos L., Obradors A., Rius M., del Rey J., Martinez-Pasarell O., Pujol A., Benet J., Navarro Ferrete J., Double-factor preimplantation genetic diagnosis: Monogenic and cytogenetic diagnoses analyzing a single blastomere. (2015) PRENATAL DIAG, 35 (13), 1301-1307. IF: 3.0430

Gimenez C., Sarasa J., Arjona C., Vilamajo E., Martinez-Pasarell O., Wheeler K., Valls G., Garcia-Guixe E., Wells D., Karyomapping allows preimplantation genetic diagnosis of a de-novo deletion undetectable using conventional PGD technology. (2015) REPROD BIOMED ONLINE, 31 (6), 770-775. IF: 2.7960

Krausz C., Escamilla A.R., Chianese C., Genetics of male infertility: From research to clinic. (2015) REPRODUCTION, 150 (5), R159-R174. IF: 3.1840

Munoz X., Mata A., Bassas L., Larriba S., Altered miRNA Signature of Developing Germcells in Infertile Patients Relates to the Severity of Spermatogenic Failure and Persists in Spermatozoa. (2015) SCI REP-UK, 5. IF: 5.2280

Ramos L., Daina G., Del Rey J., Ribas-Maynou J., Fernandez-Encinas A., Martinez-Passarell O., Boada M., Benet J., Navarro J., Comprehensive preimplantation genetic screening and sperm deoxyribonucleic acid fragmentation from three males carrying balanced chromosome rearrangements. (2015) FERTIL STERIL, 104 (3), 681-687.e2. IF: 4.4260

Urdinguio R.G., Bayon G.F., Dmitrijeva M., Torano E.G., Bravo C., Fraga M.F., Bassas L., Larriba S., Fernandez A.F. Aberrant DNA methylation patterns of spermatozoa in men with unexplained infertility. (2015) HUM REPROD, 30(5), 1014-28. IF: 4.621