

Genética

Áreas de conocimiento: Genética

Director: Rafael Jiménez Medina

Secretario: Roberto de la Herrán Moreno

Página web: <http://genetica.ugr.es>

Profesorado: CU: 9, PTU: 9, Asociado Interino: 1, Ayudante Doctor: 1, Contratado Ramón y Cajal: 1

Tesis leídas

- Metilación diferencial del genoma humano y su asociación con la transcripción

Doctorando: Ricardo Lebrón Aguilar

Director: José L. Oliver Jiménez y Michael Hackenberg

Fecha de lectura: Junio de 2019

Grupos de Investigación.

BIO200 GENETICA MOLECULAR

- Responsable: JOSE CARMELO RUIZ REJON

BIO162 GENOMICA EVOLUTIVA Y BIOINFORMATICA

- Responsable: JOSE L. OLIVER JIMENEZ

BIO109 GENOMICA FUNCIONAL Y EVOLUTIVA

- Responsable: RAFAEL JIMENEZ MEDINA

BIO165 GRUPO DE GENÉTICA EVOLUTIVA

- Responsable: JUAN PEDRO MARTINEZ CAMACHO

Dirección y participación en Proyectos I+D

- 2019 New therapeutic molecules for the treatment of mitochondrial diseases, , 01/02/2019-31/01/2022

Investigador/a MOHAMMED BAKKALI

- 2018 CARACTERIZACIÓN BIOINFORMÁTICA DE LA FORMACIÓN DE TRICOMAS Y LA RESISTENCIA A PLAGAS EN TOMATE: EPIGENÓMICA Y EPITRANSCRIPTÓMICA, , 01/01/2018-

Participante CRISTINA GÓMEZ MARTÍN

Participante RICARDO LEBRÓN AGUILAR

Investigador MICHAEL HACKENBERG

Investigador JOSE L. OLIVER JIMENEZ

- 2018 ELBA - European Liquid Biopsies Academy project - Towards widespread clinical application of blood- based diagnostic tools, , 01/01/2018-31/12/2021

Coordinador MICHAEL HACKENBERG

- 2018 PERFIL METABOLOMICOMATERNO DEL CRECIMIENTO FETAL Y SU ASOCIACION CON LA EXPOSICION A PLAGUICIDAS ORGANOFOSFORADOS, Competitivo, 01/01/2018-31/12/2020

Responsable INMACULADA LOPEZ FLORES

- 2018 CARACTERIZACION BIOINFORMÁTICA DE LA FORMACION DE TRICOMAS Y LA RESISTENCIA A PLAGAS EN TOMATE: EPIGENOMICA Y EPITRANSCRIPTOMICA, Competitivo, 01/01/2018-31/12/2020

Participante RICARDO LEBRÓN AGUILAR

Participante CRISTINA GÓMEZ MARTÍN

Responsable JOSE L. OLIVER JIMENEZ

- 2018 Genética funcional y evolutiva de la plasticidad fenotípica en Moricandia, Competitivo, 01/01/2018-31/12/2021

Responsable FRANCISCO PERFECTTI ALVAREZ

- 2018 PERFIL METABOLOMICOMATERNO DEL CRECIMIENTO FETAL Y SU ASOCIACION CON LA EXPOSICION A PLAGUICIDAS ORGANOFOSFORADOS, , 13/03/2018-12/03/2020

Investigador INMACULADA LOPEZ FLORES

Publicaciones en revistas

- 2019 Artículo: β -RA reduces DMQ/CoQ ratio and rescues the encephalopathic phenotype in Coq9R239X mice., EMBO Molecular Medicine, 11, 1, e9466-

MOHAMMED BAKKALI

- 2019 Artículo: Full plastome sequence of the fern *Vandenboschia speciosa* (Hymenophyllales): structural singularities and evolutionary insights, Journal of Plant Research, 132, , 3-17

FRANCISCO JESÚS RUIZ-RUANO CAMPAÑA

JUAN PEDRO MARTINEZ CAMACHO

MANUEL ANGEL GARRIDO RAMOS

- 2019 Artículo: Characterization of the satellitome in lower vascular plants: the case of the endangered fern *Vandenboschia speciosa*, Annals of Botany, 123, , 587-599

FRANCISCO JESÚS RUIZ-RUANO CAMPAÑA

JUAN PEDRO MARTINEZ CAMACHO

MANUEL ANGEL GARRIDO RAMOS

- 2019 Articulo: Gene expression changes elicited by a parasitic B chromosome in the grasshopper *Eyprepocnemis plorans* are consistent with its phenotypic effects, *Chromosoma*, , , -

FRANCISCO JESÚS RUIZ-RUANO CAMPAÑA

JOSEFA CABRERO HURTADO

JUAN PEDRO MARTINEZ CAMACHO

MARIA DOLORES LOPEZ LEON

- 2019 Articulo: Postnatal chromium exposure and neuropsychological development in children living in two polluted areas from southern Spain, *Environmental Pollution*, , , -

INMACULADA LOPEZ FLORES

- 2019 Articulo: Detection and variability analyses of CRISPR-like loci in the *H. pylori* genome, *PeerJ-the Journal of Life & Environmental Sciences (PeerJ)*, 7:e6221, , -

FRANCISCA ROBLES RODRIGUEZ

JOSE CARMELO RUIZ REJON

RAFAEL NAVAJAS PEREZ

ROBERTO DE LA HERRAN MORENO

- 2018 Articulo: Quantitative sequence characterization for repetitive DNA content in the supernumerary chromosome of the migratory locust, *Chromosoma*, 127, , 45-57

FRANCISCO JESÚS RUIZ-RUANO CAMPAÑA

JOSEFA CABRERO HURTADO

JUAN PEDRO MARTINEZ CAMACHO

MARIA DOLORES LOPEZ LEON

- 2018 Articulo: Identification of tomato miRNAs responsive to root colonization by endophytic *Pochonia chlamydosporia*, *Applied Microbiology and Biotechnology*, 102, 2, 907-919

MICHAEL HACKENBERG

RICARDO LEBRÓN AGUILAR

- 2018 Articulo: Mesenchymal stem cell's secretome promotes selective enrichment of cancer stem-like cells with specific cytogenetic profile, *Cancer Letters*, 429, 10, 78-88

MICHAEL HACKENBERG

- 2018 Articulo: Exosome-Mediated Pathogen Transmission by Arthropod Vectors, *Trends in Parasitology*, ,

MICHAEL HACKENBERG

- 2018 Articulo: Identification and characterisation of a previously unknown drought tolerance-associated microRNA in barley, *The Plant Journal*, , , -

MICHAEL HACKENBERG

- 2018 Articulo: Sertoli cell-specific ablation of miR-17-92 cluster significantly alters whole testis transcriptome without apparent phenotypic effects, *PLoS One*, 13 (5), e0197685, -

FRANCISCO DAVID CARMONA LÓPEZ

FRANCISCO JAVIER BARRIONUEVO JIMENEZ

MIGUEL BURGOS POYATOS

RAFAEL JIMENEZ MEDINA

- 2018 Articulo: High-throughput analysis of satellite DNA in the grasshopper *Pyrgomorpha conica* reveals abundance of homologous and heterologous higher-order repeats, *Chromosoma*, 127, 3, 323-340

FRANCISCO JESÚS RUIZ-RUANO CAMPAÑA

JOSEFA CABRERO HURTADO

JUAN PEDRO MARTINEZ CAMACHO

RICARDO GÓMEZ LADRÓN DE GUEVARA

- 2018 Articulo: Comprehensive analysis of three TYK2 gene variants in the susceptibility to Chagas disease infection and cardiomyopathy, *PLoS One*, 13, 1, -

FRANCISCO DAVID CARMONA LÓPEZ

- 2018 Articulo: Genetics of immunoglobulin-A vasculitis (Henoch-Schönlein purpura): An updated review, *Autoimmunity Reviews*, 17, 3, 301-315

FRANCISCO DAVID CARMONA LÓPEZ

- 2018 Articulo: Cross-phenotype analysis of ImmunoChip data identifies KDM4C as a relevant locus for the development of systemic vasculitis, *Annals of the Rheumatic Diseases*, 77, 4, 589-595

FRANCISCO DAVID CARMONA LÓPEZ

- 2018 Meeting-Abstract: SAT0105 Preliminary analysis of genetic variants in the immune system related to the body mass index in early arthritis patients, *Annals of the Rheumatic Diseases*, 77, S2, 915-

FRANCISCO DAVID CARMONA LÓPEZ

- 2018 Articulo: Activating Transcription Factor 4 Modulates TGF β -Induced Aggressiveness in Triple-Negative Breast Cancer via SMAD2/3/4 and mTORC2 Signaling, *Clinical Cancer Research*, 24, 22, 5697-5709

MARÍA QUINTANA ROMERO

- 2018 Artículo: Serum concentrations of organochlorine compounds and predictors of exposure in children living in agricultural communities from South-Eastern Spain, *Environmental Pollution*, 237, , INMACULADA LOPEZ FLORES
- 2018 Artículo: A genome-wide association study identifies a 3'UTR genetic variant of RARB associated with carotid intima-media thickness in rheumatoid arthritis., *Arthritis and Rheumatology*, , , - FRANCISCO DAVID CARMONA LÓPEZ
- 2018 Artículo: The potential of PTPN22 as a therapeutic target for rheumatoid arthritis., *Expert Opinion On Therapeutic Targets*, 22, , 879-891 FRANCISCO DAVID CARMONA LÓPEZ
- 2018 Artículo: Long-term monitoring of B-chromosome invasion and neutralization in a population of *Prospero autumnale* (Asparagaceae), *Evolution*, 72, 6, 1216-1224 FRANCISCO PERFECTTI ALVAREZ JOSE CARMELO RUIZ REJON JUAN PEDRO MARTINEZ CAMACHO MANUEL ANGEL GARRIDO RAMOS
- 2018 Artículo: RNA-Seq reveals large quantitative differences between the transcriptomes of outbreak and non-outbreak locusts, *Scientific Reports*, 8, , 9207- MOHAMMED BAKKALI RUBÉN MARTÍN BLÁZQUEZ
- 2018 Artículo: liqDB: a small-RNAseq knowledge discovery database for liquid biopsy studies, *Nucleic Acids Research*, , , - MICHAEL HACKENBERG RICARDO LEBRÓN AGUILAR
- 2018 Artículo: Herpes simplex virus 1 miRNA sequence variations in latently infected human trigeminal ganglia, *Virus Research*, , , - MICHAEL HACKENBERG
- 2018 Artículo: Disentangling the climatic and biotic factors driving changes in the dynamics of *Quercus* suber populations across the species' latitudinal range, *Diversity And Distributions*, , , - MOHAMED ABDELAZIZ MOHAMED
- 2018 Artículo: Phylogenetic signal of genomic repeat abundances can be distorted by random homoplasy: A case study from hominid primates, *Zoological Journal of the Linnean Society*, , , - FRANCISCO JESÚS RUIZ-RUANO CAMPAÑA JUAN PEDRO MARTINEZ CAMACHO
- 2018 Artículo: Germ cell desquamation-based testis regression in a seasonal breeder, the Egyptian long-eared hedgehog, *Hemiechinus auritus*., *PloS One*, 13, 0204851, - FRANCISCO DAVID CARMONA LÓPEZ FRANCISCO JAVIER BARRIONUEVO JIMENEZ MIGUEL BURGOS POYATOS RAFAEL JIMENEZ MEDINA

Capítulos de libros (con ISBN)

- 2019 Titulo Capítulo: Giant cell arteritis, Titulo Libro: *Genetics of Rare Autoimmune Diseases*: Springer International Publishing, , 2019, 978-3-030-03933-2 FRANCISCO DAVID CARMONA LÓPEZ
- 2018 Titulo Capítulo: Prediction of CpG Islands as an Intrinsic Clustering Property Found in Many Eukaryotic DNA Sequences and Its Relation to DNA Methylation, Titulo Libro: *CpG Islands: Humana Press*, , 2018, 978-1-4939-7767-3 JOSE L. OLIVER JIMENEZ RICARDO LEBRÓN AGUILAR CRISTINA GÓMEZ MARTÍN MICHAEL HACKENBERG

Contribuciones en congresos

- 2019 Poster en Congreso: Análisis genéticos en *Branchipus schaefferi*: ¿un cultivo alternativo a *Artemia*?, XVII Congreso Nacional de Acuicultura, 07/05/2019, CARTAGENA, Congreso FRANCISCA ROBLES RODRIGUEZ ROBERTO DE LA HERRAN MORENO JOSE CARMELO RUIZ REJON RAFAEL NAVAJAS PEREZ
- 2019 Poster en Jornada: Influence of repeated DNA in the viability of the pollen grains in three species of the genus *Asphodelus*, XVI Annual Meeting of the Spanish Group for Floral Ecology, 14/03/2019, Granada, Spain, Jornada JOSE CARMELO RUIZ REJON

- ROBERTO DE LA HERRAN MORENO
RAFAEL NAVAJAS PEREZ
FRANCISCA ROBLES RODRIGUEZ
- 2019 Poster en Jornada: B chromosome accumulation in *Dipcadi serotinum* (L.) Medik, XVI Annual Meeting of the Spanish Group for Floral Ecology, 14/03/2019, Granada, Spain, Jornada
RAFAEL NAVAJAS PEREZ
ROBERTO DE LA HERRAN MORENO
FRANCISCA ROBLES RODRIGUEZ
- 2018 Poster en Congreso: The identification and potential exploitation of xenometabolic genes in *Aspergillus* fungi, 7th European Bioremediation Conference, 25/06/2018, CHANIA - CRETE (GRECIA), Congreso
RAFAEL NAVAJAS PEREZ
- 2018 Poster en Congreso: Preliminary Analysis of Genetic Variants in the Immune System Related to the Body Mass Index in Early Arthritis Patients,- 2018 ACR/ARHP Annual Meeting, 20/10/2018, Chicago (Estados Unidos), Congreso
FRANCISCO DAVID CARMONA LÓPEZ
- 2018 Poster en Congreso: A Genome-Wide Association Study Identifies rs116199914 As an Intergenic Variant Associated with Carotid Intima-Media Thickness in Spanish Patients with Rheumatoid Arthritis,- 2018 ACR/ARHP Annual Meeting, 20/10/2018, Chicago (Estados Unidos), Congreso
FRANCISCO DAVID CARMONA LÓPEZ
- 2018 Comunicación en congreso: Hairplus es un regulador epigenético de la densidad de tricomas glandulares de tomate, 1er Congreso de Jóvenes Investigadores en Ciencias Agroalimentarias, 20/12/2018, - UNIVERSIDAD DE ALMERÍA, - Almería, España, España, Congreso
JOSE L. OLIVER JIMENEZ
RICARDO LEBRÓN AGUILAR
CRISTINA GÓMEZ MARTÍN
MICHAEL HACKENBERG
- 2018 Poster en Congreso: Hairplus es un regulador epigenético de la densidad de tricomas glandulares de tomate, 1er Congreso de Jóvenes Investigadores en Ciencias Agroalimentarias, 20/12/2018, - UNIVERSIDAD DE ALMERÍA, - Almería, España, España, Congreso
JOSE L. OLIVER JIMENEZ
MICHAEL HACKENBERG
CRISTINA GÓMEZ MARTÍN
RICARDO LEBRÓN AGUILAR
- 2018 Poster en Jornada: Establecimiento de cultivos primarios y transfección en *Ruditapes philippinarum*, IX Jornadas de Acuicultura en el Litoral Suratlántico, 09/05/2018, - Cartaya (Huelva), España, Jornada
RAFAEL NAVAJAS PEREZ
ROBERTO DE LA HERRAN MORENO
JOSE CARMELO RUIZ REJON
FRANCISCA ROBLES RODRIGUEZ