



Mireia Bustos Aibar

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Mireia Bustos Aibar is a Biology graduate with a Master's degree in Bioinformatics and Biostatistics. Since September 2019, she has been engaged in biomedical research at the University of Granada, where she is now a second-year predoctoral researcher funded by a PFIS fellowship (Contract PFIS-FI23/00042). She has contributed to the MEDKIDS, ADIPOSEQ, GENOBOX, PUBMEP, IBEROMICS, EXOMAIR and DIVERSE projects, leveraging multi-omics technologies to uncover molecular targets and mechanisms underlying childhood and young-adult obesity, and to propose precision-medicine strategies.

Since 2022, Mireia has been an active member of BioinfoGRX, an association dedicated to disseminating bioinformatics and making it accessible to students. She has also taken part in high-profile outreach initiatives, such as Researchers' Night (La Noche de los Investigadores) and Science Week, bringing cutting-edge research closer to the public. The scientific works to which she has contributed have achieved significant impact and visibility, appearing in prestigious open-access journals ranked in Q1 and Q2 quartiles, evidencing both their rigor and reach. Moreover, several of these studies have resonated widely in society, receiving coverage in national media outlets, including television broadcasts and major newspapers.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

My scientific activity stands out mainly for using **bioinformatics techniques applied to multi-omics studies** in numerous disciplines, giving great relevance to the **transmission and dissemination of the knowledge** obtained through scientific papers.



Mireia Bustos Aibar

Surname(s): **Bustos Aibar**
Name: **Mireia**
ORCID: **0000-0002-2520-8006**
Date of birth: **25/10/1997**
Gender: **Female**
Nationality: **Spain**
Country of birth: **Spain**
Aut. region/reg. of birth: **Cataluña**
Contact province: **Granada**
Contact country: **Spain**
Contact aut. region/reg.: **Andalucía**
Contact city: **Granada**

Current professional situation

- 1** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
Department: Instituto de Investigación Sanitaria de Aragón (IIS Aragón)
Professional category: PFIS RESEARCH FELLOWSHIP (FI23/00042)
Start date: 12/01/2024
Type of contract: Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time
- 2** **Employing entity:** UNIVERSITY OF GRANADA **Type of entity:** University Research Institute
Department: BIOCHEM. & MOLEC. BIOLOGY II, CENTER OF BIOMEDICAL RESEARCH
Professional category: RESEARCH FELLOW
Start date: 01/04/2023
Type of contract: Temporary **Dedication regime:** Full time
Primary (UNESCO code): 241007 - Human genetics
Performed tasks: Biostatistical and bioinformatical analysis of multi-omics data.
Identify key words: Clinical medicine; Health; Molecular mechanism of disease; Database management system; Information storage; Coding

Previous positions and activities

	Employing entity	Professional category	Start date
	UNIVERSITY OF GRANADA	YOUNG RESEARCH PERSONNEL - EUROPEAN SOCIAL FUND	17/01/2022

Employing entity: UNIVERSITY OF GRANADA **Type of entity:** University Department
Professional category: YOUNG RESEARCH PERSONNEL - EUROPEAN SOCIAL FUND
Start-End date: 17/01/2022 - 31/03/2023 **Duration:** 1 year - 3 months



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1** **University degree:** Higher degree
Name of qualification: MSc IN BIOINFORMATICS AND BIOSTATISTICS
Degree awarding entity: UNIVERSITAT OBERTA DE CATALUNYA **Type of entity:** University
Date of qualification: 12/07/2022
- 2** **University degree:** Higher degree
Name of qualification: BSc IN BIOLOGY
Degree awarding entity: UNIVERSITY OF GRANADA
Date of qualification: 07/07/2020

Doctorates

Doctorate programme: Nutrition and Food Science (Ongoing)
Degree awarding entity: University of Granada

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C1	C1	B2	B2	C1

Teaching experience

General teaching experience

Type of teaching: Official teaching
Name of the course: Methodology of Research
Type of programme: Bachelor's degree
Type of subject: Obligatory
University degree: Nursing
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: University of Zaragoza
Department: Physiatry and Nursing



Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** GENUD (Growth, Exercise, Nutrition and Development)
Standardised code: GIIS066
Affiliation entity: Aragon Health Research Institute (IIS Aragón), University of Zaragoza
Start date: 12/01/2024 **Duration:** 4 years
- 2 Name of the group:** BioNIT (Biochemistry of Nutrition. Therapeutic implications)
Standardised code: CTS-461
Affiliation entity: Department of Biochemistry and Molecular Biology II, Centre for Biomedical Research, University of Granada
Start date: 01/04/2023 **Duration:** 5 years

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 Name of the project:** Towards Precision Medicine: Exposome and Omics analysis using eXplainable Artificial Intelligence to study their impact on lifespan Obesity, Insulin Resistance and Metabolic health (EXOMAIR)
Entity where project took place: Fondo de Investigaciones Sanitarias. Instituto de Salud Carlos III. Ministerio de Sanidad
Name principal investigator (PI, Co-PI....): Aguilera, C.M.
Code according to the funding entity: PI23/00028
Start-End date: 01/01/2024 - 31/12/2026
Total amount: 191.250 €
- 2 Name of the project:** Towards Precision Medicine: Exposome and Omics analysis using eXplainable Artificial Intelligence to study their impact on lifespan Obesity, Insulin Resistance and Metabolic health (EXOMAIR)
Entity where project took place: Fondo de Investigaciones Sanitarias. Instituto de Salud Carlos III. Ministerio de Sanidad
Name principal investigator (PI, Co-PI....): Anguita-Ruiz, A.; Saucy, A.
Code according to the funding entity: PI23/01032
Start-End date: 01/01/2024 - 31/12/2026
Total amount: 139.375 €
- 3 Name of the project:** P20. Pre-competitive Research Projects Program for Young Researchers 2025
Entity where project took place: University of Granada
Name principal investigator (PI, Co-PI....): Bustos-Aibar, M. (PI); Ranchal-Parrado, D. (Co-PI)
Nº of researchers: 2
Code according to the funding entity: PPJIB-2024-68
Start-End date: 01/01/2025 - 31/12/2025
Total amount: 1.250 €



- 4** **Name of the project:** Disentangling the Interplay between behaviours and biomarkers across the lifespan (DIVERSE)
Entity where project took place: Fondo de Investigaciones Sanitarias. Instituto de Salud Carlos III. Ministerio de Sanidad
Name principal investigator (PI, Co-PI....): Moreno, L.A.
Code according to the funding entity: PI22/01337
Start-End date: 01/01/2023 - 31/12/2025
Total amount: 39.930 €
- 5** **Name of the project:** Omics and artificial intelligence as tools to understand molecular mechanisms of insulin resistance in obese children during puberty (IBEROMICS)
Entity where project took place: Fondo de Investigaciones Sanitarias. Instituto de Salud Carlos III. Ministerio de Sanidad
Name principal investigator (PI, Co-PI....): Aguilera, C.M.
Code according to the funding entity: PI20/00563
Start-End date: 01/01/2021 - 31/12/2023
Total amount: 173.030 €
- 6** **Name of the project:** Investigación y desarrollo de nuevos productos alimentarios para la elaboración de una cesta saludable para alimentación infantil (MEDKIDS)
Entity where project took place: Centro para el Desarrollo Tecnológico e Industrial (CDTI). Programa estratégico CIEN
Name principal investigator (PI, Co-PI....): Moreno, L.A.
Code according to the funding entity: IDI-20190982
Start-End date: 01/01/2020 - 31/12/2023
Total amount: 135.000 €
- 7** **Name of the project:** Unraveling the pathophysiology of adipose tissue in obese children through next generation RNA sequencing (KIDSADIPOSEQ)
Entity where project took place: CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN). Instituto de Salud Carlos III. Ministerio de Sanidad
Name principal investigator (PI, Co-PI....): Aguilera, C.M.
Code according to the funding entity: IM2020-kid
Start-End date: 08/05/2020 - 31/12/2021
Total amount: 65.000 €
- 8** **Name of the project:** Pubertad y riesgo metabólico en niños obesos: alteraciones epigenéticas e implicaciones fisiopatológicas y diagnósticas. Estudio PUBMEP
Entity where project took place: Fondo de Investigaciones Sanitarias. Instituto de Salud Carlos III. Ministerio de Sanidad
Code according to the funding entity: PI16/00871
Start-End date: 01/01/2017 - 31/12/2020
Total amount: 131.890 €



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Álvaro Torres-Martos; Augusto Anguita-Ruiz; Mireia Bustos-Aibar; Alberto Ramírez-Mena; María Arteaga; Gloria Bueno; Rosaura Leis; Concepción M. Aguilera; Rafael Alcalá; Jesús Alcalá-Fdez. Multiomics and eXplainable artificial intelligence for decision support in insulin resistance early diagnosis: A pediatric population-based longitudinal study. Artificial Intelligence in Medicine. 156 - 102962, 20/08/2024.
DOI: 10.1016/j.artmed.2024.102962
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 10
- 2** Mireia Bustos-Aibar; Concepción M Aguilera; Jesús Alcalá-Fdez; Francisco J Ruiz-Ojeda; Julio Plaza-Díaz; Abel Plaza-Florio; Inés Tofe; Mercedes Gil-Campos; María J Gacto; Augusto Anguita-Ruiz. Shared Gene Expression Signatures Between Visceral Adipose and Skeletal Muscle Tissues Are Associated with Cardiometabolic Traits in Children with Obesity. Computers in Biology and Medicine. 163, pp. 107085. Elsevier, 27/05/2023.
DOI: 10.1016/j.combiomed.2023.107085
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 10
Impact source: JCR **Category:** Science Edition - BIOLOGY
Impact index in year of publication: 7.7 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 111
- 3** Álvaro Torres-Martos; Mireia Bustos-Aibar; Alberto Ramirez-Mena; Sofía Cámara-Sánchez; Augusto Anguita-Ruiz; Rafael Alcalá-Fernández; Concepción María Aguilera; Jesús Alcalá-Fdez. Omics Data Preprocessing for Machine Learning: A Case Study in Childhood Obesity. Genes. 14 - 2, MDPI, 18/01/2023. ISSN 2073-4425
DOI: 10.3390/genes14020248
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 8
Impact source: JCR **Category:** Science Edition - GENETICS & HEREDITY
Impact index in year of publication: 4.141 **Journal in the top 25%:** No
Position of publication: 65 **No. of journals in the cat.:** 171
- 4** Augusto Anguita-Ruiz; Mireia Bustos-Aibar; Julio Plaza-Díaz; Andrea Mendez-Guitierrez; Jesús Alcalá-Fdez; Concepción María Aguilera; Francisco Javier Ruiz-Ojeda. Omics Approaches in Adipose Tissue and Skeletal Muscle Addressing the Role of Extracellular Matrix in Obesity and Metabolic Dysfunction. International Journal of Molecular Sciences. 22 - 5, pp. 2756. MDPI, 09/03/2021. ISSN 1422-0067
DOI: 10.3390/ijms22052756
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 7
Impact source: JCR



Impact index in year of publication: 5.924
Position of publication: 67

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 295

- 5** Bustos-Aibar, M.; Torres-Martos, A.; Gil, A.; Aguilera, C.M.. Genetic and epigenetic origins of childhood obesity. Childhood Obesity. 3, pp. 44 - 81. Academic Press, 03/01/2025. ISBN 9780443219757
DOI: 10.1016/B978-0-443-21975-7.00003-4
Type of production: Book chapter
Position of signature: 1
Total no. authors: 4
- 6** Bustos-Aibar, M.; Anguita-Ruiz, A.; Piernas, C.. Nutrigenética: Variantes genéticas que responden a patrones de alimentación. Gil. Tratado de Nutrición (Tomo II) (4ª ed.). 17, pp. 393 - 412. Editorial Médica Panamericana S.A., 15/10/2024. ISBN 9788411061629
Type of production: Book chapter
Position of signature: 1
Total no. authors: 3
- 7** Bustos-Aibar, M.; Anguita-Ruiz, A.; Aguilera, C.M.. Nutrigenética: variantes genéticas que responden a nutrientes. Gil. Tratado de Nutrición (Tomo II) (4ª ed.). 16, pp. 369 - 392. Editorial Médica Panamericana S.A., 15/10/2024. ISBN 9788411061629
Type of production: Book chapter
Position of signature: 1
Total no. authors: 3

Works submitted to national or international conferences

- 1** **Title of the work:** Comparative analysis of indices to identify children at metabolic risk in the Spanish pediatric population.
Name of the conference: XX Congreso Nacional de la Sociedad Española para el Estudio de la Obesidad (SEEDO2024)
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Santiago, Galicia, Spain
Date of event: 27/11/2024
End date: 29/11/2024
Domingo-Ajenjo, J.; Bustos-Aibar, M.; Torres-Martos, A.; Bueno, G.; Leis, R.; Anguita-Ruiz, A.; Aguilera, C.M.; Alcalá-Fdez, J.
- 2** **Title of the work:** Epigenetic clocks across pubertal development: Insights into childhood obesity and overweight.
Name of the conference: XX Congreso Nacional de la Sociedad Española para el Estudio de la Obesidad (SEEDO2024)
Type of event: Conference
Type of participation: Participatory - poster
City of event: Santiago de Compostela, Galicia, Spain
Date of event: 27/11/2024
End date: 29/11/2024
Organising entity: Sociedad Española para el Estudio de la Obesidad (SEEDO)

Bustos-Aibar, M.; Torres-Martos, A.; Bueno, G.; Leis, R.; Alcalá-Fdez, J.; Anguita-Ruiz, A.; Aguilera, C.M.

- 3 Title of the work:** Metabolomic characterization of insulin resistance in the prepubertal and pubertal stage: findings from the PUBMEP study.

Name of the conference: XX Congreso Nacional de la Sociedad Española para el Estudio de la Obesidad (SEEDO2024)

Type of event: Conference

Type of participation: Participatory - poster

City of event: Santiago de Compostela, Galicia, Spain

Date of event: 27/11/2024

End date: 29/11/2024

Organising entity: Sociedad Española para el Estudio de la Obesidad (SEEDO)

Torres-Martos, A.; Bustos-Aibar, M.; Rangel-Huerta, O.; Bueno, G.; Leis, R.; Alcalá-Fdez, J.; Anguita-Ruiz, A.; Aguilera, C.M.

- 4 Title of the work:** Association between BCAA catabolism and insulin resistance in children with obesity
insulin resistance in children with obesity: findings from the PUBMEP study PUBMEP study

Name of the conference: III Conferencia FINUT 2024

Type of event: Conference

Type of participation: Participatory - poster

City of event: Medellín, Colombia

Date of event: 24/10/2024

End date: 26/10/2024

Organising entity: Fundación Iberoamericana de Nutrición (FINUT)

Torres-Martos, A.; Bustos-Aibar, M.; Rangel-Huerta, O.; Vázquez-Cobela, R.; Moreno, L.A.; Bueno, G.; Leis, R.; Alcá-Fdez, J.; Anguita-Ruiz, A.; Aguilera, C.M.

- 5 Title of the work:** Epigenetic clocks across pubertal development: Insights into childhood obesity and overweight.

Name of the conference: III Conferencia FINUT 2024

Type of event: Conference

Type of participation: Participatory - poster

City of event: Medellín, Colombia

Date of event: 24/10/2024

End date: 26/10/2024

Organising entity: Fundación Iberoamericana de Nutrición (FINUT)

Bustos-Aibar, M.; Torres-Martos, A.; Bueno, G.; Leis, R.; Moreno, L.A.; Vazquez-Cobela, R.; Alcalá-Fdez, J.; Anguita-Ruiz, A.; Aguilera, C.M.

- 6 Title of the work:** Dietary patterns derived by reduced-rank regression and cardiometabolic risk factors: a cross-sectional analysis of the Spanish pediatric cohort IBEROMICS

Name of the conference: XXXIII Congreso de la Sociedad Española de Nutrición

Type of event: Conference

Type of participation: Participatory - poster

City of event: Granada, Andalucía, Spain

Date of event: 19/06/2024

End date: 21/06/2024

Organising entity: Sociedad Española de Nutrición (SEÑ)

Silveira-Sanguino, V.; Bustos-Aibar, M.; Torres-Martos, A.; Bueno, G.; Leis, R.; De Miguel-Etayo, P.; Vázquez-Cobela, R.; Aguilera, C.M.; Piernas, C.



- 7** **Title of the work:** Longitudinal investigation of epigenetic clocks: Understanding the impact of obesity and overweight on children's epigenetic age
Name of the conference: XXXIII Congreso de la Sociedad Española de Nutrición
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Granada, Andalucía, Spain
Date of event: 19/06/2024
End date: 21/06/2024
Organising entity: Sociedad Española de Nutrición (SEÑ)
Bustos-Aibar, M.
- 8** **Title of the work:** Serum peptidase D (PEPD) levels are associated with obesity in prepubertal children.
Name of the conference: 39 Congreso Nacional SENPE
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Palma de Mallorca, Balears, Illes, Spain
Date of event: 15/05/2024
End date: 17/05/2024
Organising entity: Sociedad Española de Nutrición Clínica y Metabolismo (SENPE)
Brandimonte-Hernández, M.; Torres-Martos, A.; Bustos-Aibar, M.; Anguita-Ruiz, A.; Bueno, G.; Leis, R.; Gil, A.; Aguilera, C.M.; Ruiz-Ojeda, F.J.
- 9** **Title of the work:** A novel biomarker of early metabolic complications in pediatric obesity
Name of the conference: 56th Annual Meeting of the European Society for Paediatric Gastroenterology, Hepatology and Nutrition
Type of participation: Participatory - poster
City of event: Milan, Italy
Date of event: 15/05/2024
End date: 18/05/2024
Organising entity: European Society for Paediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN)
Brandimonte-Hernandez, M.; Torres-Martos, A.; Ruiz-Ojeda, F.J.; Bustos-Aibar, M.; Bueno, G.; Anguita-Ruiz, A.; Vazquez-Cobela, R.; Aguilera, C.M.; Leis, R.
- 10** **Title of the work:** The use of Z-scores as a tool for the study of metabolic syndrome in childhood and adolescence.
Name of the conference: 46o Congreso de la Sociedad Española de Endocrinología Pediátrica
Type of event: Conference
Type of participation: Participatory - poster
City of event: Palmas de Gran Canarias, Canarias, Spain
Date of event: 08/05/2024
End date: 10/05/2024
Organising entity: SEEP/FSEEP
Torres-Martos, A.; Requena, F.; Bustos-Aibar, M.; Alcalá-Fdez, J.; Leis, R.; Aguilera, C.M.; Anguita-Ruiz, A.; Llorente-Cereza, M.T.; Bueno, G.
- 11** **Title of the work:** Application of Obmetrics software for metabolic risk assessment in children with obesity from a multicenter study.
Name of the conference: XXXCongreso Nacional de la Sociedad Española de Gastroenterología, Hepatología y Nutrición Pediátrica
Type of event: Conference
Type of participation: Participatory - oral communication



City of event: Bilbao, País Vasco, Spain

Date of event: 25/04/2024

End date: 27/04/2024

Organising entity: Sociedad Española de Gastroenterología, Hepatología y Nutrición Pediátrica (SEGHNP)
Torres-Martos, A.; Requena, F.; Bustos-Aibar, M.; Alcalá-Fdez, J.; Bueno, G.; Aguilera, C.M.; Anguita-Ruiz, A.; Leis, R.

- 12 Title of the work:** Effects of a 6-month exercise intervention on skeletal muscle DNA methylation patterns in young adults: the ACTIBATE study

Name of the conference: XIX Congreso Nacional de la Sociedad Española para el Estudio de la Obesidad (SEEDO2023)

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Sevilla, Andalucía, Spain

Date of event: 22/11/2023

End date: 25/11/2023

Organising entity: Sociedad Española para el Estudio de la Obesidad (SEEDO)

Mireia Bustos-Aibar; Álvaro Torres-Martos; Augusto Anguita-Ruiz; Francisco Javier Ruiz-Ojeda; Jonatan R Ruiz; Concepción María Aguilera.

- 13 Title of the work:** ObMetrics: a tool for the evaluation of the Metabolic Syndrome in pediatric age.

Name of the conference: XIX Congreso Nacional de la Sociedad Española para el Estudio de la Obesidad (SEEDO2024)

Type of event: Conference

Type of participation: Participatory - poster

City of event: Sevilla, Andalucía, Spain

Date of event: 22/11/2023

End date: 25/11/2023

Organising entity: Sociedad Española para el Estudio de la Obesidad (SEEDO)

Álvaro Torres-Martos; Francisco Requena; Mireia Bustos-Aibar; Jesús Alcalá-Fdez; Gloria Bueno; Rosaura Leis; Concepción M. Aguilera; Augusto Anguita-Ruiz.

- 14 Title of the work:** Leveraging machine learning and genetic risk scores for the prediction of metabolic syndrome in children with obesity

Name of the conference: 14th European Nutrition Conference FENS

City of event: Belgrade, Serbia

Date of event: 14/11/2023

End date: 17/11/2023

Organising entity: Federation of European Nutrition Societies (FENS Nutrition)

City organizing entity: Belgrade, Serbia

Concepción M. Aguilera; Mireia Bustos Aibar; Augusto Anguita Ruiz; Álvaro Torres Martos; Gloria Bueno; Rosaura Leis; Jesús Alcalá Fernández.

DOI: 10.3390/proceedings2023091377

- 15 Title of the work:** A web-based tool for cardiovascular risk assessment in children and adolescents

Name of the conference: XXII Congreso de la Sociedad Española de Investigación en Nutrición y Alimentación en Pediatría

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 03/11/2023

End date: 04/11/2023

Organising entity: Sociedad Española de Investigación en Nutrición y Alimentación en Pediatría (SEINAP)
Torres-Martos, A.; Requena, F.; Bustos-Aibar, M.; Alcalá-Fdez, J.; Bueno, G.; Leis, R.; Aguilera, C.M.;
Anguita-Ruiz, A.

- 16** **Title of the work:** A whole chloroplast genome method based on DNA barcoding to monitor diversity
Name of the conference: 20th Annual Meeting of the Spanish Group for Floral Ecology (EcoFlor)
City of event: Sevilla, Andalucía, Spain
Date of event: 09/02/2023
End date: 10/02/2023
Organising entity: Universidad de Sevilla **Type of entity:** University
City organizing entity: Sevilla, Andalucía, Spain
Mireia Bustos-Aibar; Modesto Berbel Cascales; Andrea Martín Salas; Mohamed Abdelaziz; Jesús Muñoz Pajares.
- 17** **Title of the work:** Altimontane species complexes as model systems for studying phenotypic plasticity, phenotypic integration and evolvability
Name of the conference: III Annual Symposium of Spanish Botany
City of event: Barcelona, Cataluña, Spain
Date of event: 25/11/2022
End date: 26/11/2022
Organising entity: Botanical Institute of Barcelona
City organizing entity: Barcelona, Cataluña, Spain
Mireia Bustos-Aibar; Ana García Muñoz; Camilo Ferrón; Carlos Olmedo Castellanos; Celia Vaca Benito; Mohammed Bakkali; Jesús Muñoz Pajares; Mohamed Abdelaziz Mohamed.
- 18** **Title of the work:** Gene Expression Profiles of Visceral and Subcutaneous Adipose Tissues in Children with Overweight or Obesity: The KIDADIPOSEQ Project
Name of the conference: IWBBIO 2022: International Work-Conference on Bioinformatics and Biomedical Engineering
City of event: Gran Canaria, Canarias, Spain
Date of event: 27/06/2022
End date: 30/06/2022
Organising entity: University of Granada
City organizing entity: Granada, Andalucía, Spain
Mireia Bustos-Aibar; Augusto Anguita Ruiz; Álvaro Torres Martos; Jesús Alcalá Fernández; Francisco Javier Ruiz Ojeda; Marjorie Reyes Farias; Andrea Soria Gondek; Laura Herrero; David Sánchez Infantes; Concepción María Aguilera García. "https://doi.org/10.1007/978-3-031-07704-3_4".
- 19** **Title of the work:** Human Multi-omics Data Pre-processing for Predictive Purposes Using Machine Learning: A Case Study in Childhood Obesity. Bioinformatics and Biomedical Engineering
Name of the conference: IWBBIO 2022: International Work-Conference on Bioinformatics and Biomedical Engineering
City of event: Gran Canaria, Canarias, Spain
Date of event: 27/06/2022
End date: 30/06/2022
Organising entity: University of Granada
City organizing entity: Granada, Andalucía, Spain
Álvaro Torres Martos; Augusto Anguita Ruiz; Mireia Bustos-Aibar; Sofía Cámara Sánchez; Rafael Alcalá Fernández; Concepción María Aguilera García; Jesús Alcalá Fernández.
"https://doi.org/10.1007/978-3-33031-07802-6_31".

- 20** **Title of the work:** Gene expression profiles of visceral and subcutaneous adipose tissues in children with overweight or obesity: the KIDADIPOSEQ project
Name of the conference: II CONGRESO INVESTIGACIÓN PTS
City of event: GRANADA, Andalucía, Spain
Date of event: 09/02/2022
End date: 11/02/2022
Organising entity: University of Granada
Mireia Bustos-Aibar; Augusto Anguita-Ruiz; Álvaro Torres-Martos; Jesús Alcalá-Fdez; Francisco Javier Ruiz-Ojeda; Andrea Soria-Gondek; Laura Herrero; David Sánchez-Infantes; Concepción Aguilera.
- 21** **Title of the work:** Use of Machine learning methods to improve the early- life predictive programs of obesity childhood
Name of the conference: II CONGRESO INVESTIGACIÓN PTS
City of event: Granada, Granada
Date of event: 03/02/2022
End date: 11/02/2022
Organising entity: University of Granada
Torres-Martos, A.; Anguita-Ruiz, A.; Bustos-Aibar, M.; Alcalá, R.; Aguilera, C.M.; Alcalá-Fdez, J.
- 22** **Title of the work:** Inter-tissue gene co-expression clusters from visceral adipose and skeletal muscle tissue are associated with cardiometabolic traits in children with obesity
Name of the conference: ECO ONLINE 28th European Congress On Obesity
Corresponding author: No
Date of event: 10/05/2021
End date: 13/05/2021
Organising entity: European Association for the Study of Obesity
Mireia Bustos-Aibar; Concepción María Aguilera García; Abel Plaza Florido; Francisco Javier Ruiz Ojeda; Mercedes Gil Campos; Ángel Gil Hernández; Julio Plaza Díaz; Augusto Anguita Ruiz.

R&D management and participation in scientific committees

Organization of R&D activities

- 1** **Title of the activity:** Science Week 2022: Genetics workshop
Type of activity: Scientific Dissemination
Geographical area: European Union
Convening entity: University of Granada
City convening entity: Granada, Andalucía, Spain
Start-End date: 07/11/2022 - 18/11/2022
Duration: 7 days
- 2** **Title of the activity:** Researchers' Night: Bioinformatics as a tool to know oneself
Type of activity: Scientific Dissemination
Geographical area: Regional
Convening entity: BionfoGRX Association
City convening entity: Granada, Andalucía, Spain
Start-End date: 30/09/2022 - 30/09/2022
Duration: 1 day



Other achievements

Obtained grants and scholarships

- 1** **Name of the grant:** Ángel Ballabriga de Investigación
Awarding entity: SEINAP (Sociedad Española de Investigación en Nutrición y Alimentación en Pediatría)
Conferral date: 03/11/2023 **Duration:** 2 days
End date: 04/11/2023
Entity where activity was carried out: XXII Congreso SEINAP
- 2** **Name of the grant:** EASO ECN Development Fund Travel Grant
Awarding entity: EASO (European Association for the Study of Obesity)
Conferral date: 24/10/2024 **Duration:** 1 year