CENTRO DE INVESTIGACIÓN EN RENDIMIENTO FÍSICO Y DEPORTIVO

Actividades

Durante el curso académico 2024-2025 se han llevado a cabo diversos estudios de investigación: evaluaciones del estado físico y mental de deportistas, población general y clínica, así como intervenciones basadas en programas de ejercicio físico.

Las instalaciones y material del Centro de Investigación en Rendimiento Físico y Deportivo han sido utilizados por un amplio número de grupos de investigación de la UPO. Se han realizado actuaciones formales de gestión de instalaciones e instrumental, dirigidas al desarrollo de proyectos de I+D, pruebas de concepto, tesis doctorales y proyectos de fin de Grado y Máster.

Publicaciones en JCR y revistas indexadas

1. Alcalá-Santiago, Á., Toscano-Sánchez, R., Márquez-López, J. C., González-Jurado, J. A., Fernández-Pachón, M.-S., García-Villanova, B., Pedroche, J., & Rodríguez-Martín, N. M. (2024). The Synergic Immunomodulatory Effect of Vitamin D and Chickpea Protein Hydrolysate in THP-1 Cells: An In Vitro Approach. International Journal of Molecular Sciences, 25(23). Scopus. https://doi.org/10.3390/ijms252312628.

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3. Araujo, R. H. O., Werneck, A. O., Martins, C. L., Barboza, L. L., Tassitano, R. M., Aguilar-Farias, N., Jesús, G. M., Ramírez-Vélez, R., Tesler, R., Oyeyemi, A. L., Silva, E. C. M., Weaver, R. G., Tremblay, M. S., Brazo-Sayavera, J., Mielke, G. I., & Silva, D. R. P. (2024). Global prevalence and gender inequalities in at least 60 min of self-reported moderate-to-vigorous physical activity 1 or more days per week: An analysis with 707,616 adolescents. Journal of Sport and Health Science, 13(5), 709-716. Scopus. https://doi.org/10.1016/j.jshs.2023.10.011.

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7. Aztarain-Cardiel, K., Garatachea, N., & Pareja-Blanco, F. (2024). Effects of Plyometric Training Volume on Physical Performance in Youth Basketball Players. Journal of Strength and Conditioning Research, 38(7), 1275-1279. Scopus. https://doi.org/10.1519/JSC.0000000000004779.

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Ponencias, comunicaciones, jornadas o simposios y eventos de divulgación científica

1. Gómez-Landero, L. A., Leal del Ojo, P., & Floría, P. (2024). Analysis of proactive, static and dynamic unipedal balance in young gymnasts during adolescence. 42, 223. https://commons.nmu.edu/isbs/vol42/iss1/223.

Proyectos, contratos y convenios de investigación

1. Nuevo paradigma en el entrenamiento de fuerza: entrenamiento con restricción de flujo sanguíneo monitorizado a través de la velocidad de ejecución. PID2020-117915RA-I00. Programas Estatales de Generación de Conocimiento y Fortalecimiento Científico y Tecnológico del Sistema de I+D+i y de I+D+i orientada a los Retos de la Sociedad, del Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020. Desde el 1 de septiembre de 2021 hasta el 31 de agosto de 2024. Investigador/a principal: Fernando H Pareja Blanco. Financiación: 50.000 €. Número de investigadores/as participantes: 10.

2. Actividad física, sedentaria, sueño y condición física en población andaluza con TMG. Análisis de datos composicional y efectos de un innovador programa de ejercicio físico. Ministerio de Ciencia e Innovación. Gobierno de España. 112.530 €. 1.er año: 18.004,80 €, 2.º año: 29.257,80 € y 3.er año: 65.267,40 €. PID2020-118262RB-100. Vicerrectorado de Investigación y Nuevas Tecnologías. Universidad Pablo de Olavide de Sevilla. Desde el 1 de septiembre de 2021 al 2 de septiembre de 2024. Investigador /a principal: Dr. Diego Munguía Izquierdo. Número de investigadores/as: 15.

3. Development and validation of the Global Adolescent and Child Physical Activity Questionnaire (GAC-PAQ): A multi-country study across six continents. Canadian Institutes of Health Research. From 2022-23: $275.560; From 2023-24: $508.725; Total: $784.285. PRIZE 202203PJT. Investigador/a principal: Richard Larouche y Mark Stephen Tremblay. Investigador/a participante: Francisco Javier Brazo Sayavera.

4. El ejercicio es medicina en salud mental. Como iniciar y evaluar programas de actividad física y salud en personas con trastorno mental grave (CTD-JA-IAD-S23). Consejería de Turismo, Cultura y Deporte de la Junta de Andalucía. Instituto Andaluz del Deporte (IAD). Del 1 de septiembre de 2023 al 31 de agosto de 2024 Investigador/a principal: Dr. Diego Munguía Izquierdo Investigadores/as participantes: Francisco José Berral de la Rosa; José Naranjo Orellana; Alfredo Santalla Hernández; Luis Jesús Suarez Moreno-Arrones; Javier Bueno Antequera; Miguel Angel Oviedo Caro; Remedios López Liria; Eveling Huizing; Carmen

Jiménez Casado.

5. Contrato OTRI de carácter científico entre la Universidad Pablo de Olavide de Sevilla con la entidad Histamina Síndrome Diagnostic SL (España) para la búsqueda de biomarcadores relacionados con el síndrome de sensibilidad central y la realización de analíticas relacionadas con los biomarcadores (2019/00108/006). Desde el 11 de octubre de 2023 al 31 de diciembre de 2024. Investigador/a principal: Francisco Martín Bermudo. Investigadores/as participantes: Francisco José Berral de la Rosa.

6. Contrato OTRI de carácter científico con la entidad Nutrifarma Pediatria SL para la asistencia médica al personal nutricionista en el diagnóstico y el tratamiento de las alteraciones de peso de los pacientes y deportistas, para la correcta prescripción de complementos alimenticios y pautas nutricionales (2024/00083/001). Del 26 de febrero de 2024 al 28 de febrero de 2025. Investigador/a principal: Francisco José Berral de la Rosa.

7. Validación técnica del dispositivo BIA 101 MED para determinación de la composición corporal. Proyecto de ámbito europeo. Desde el 30 de mayo de 2023 hasta el 30 de julio de 2024. Investigador/a principal: Francisco José Berral de la Rosa. Financiación: no especificada. Investigadores/as participantes: Daniel Rojano Ortega.

8. Development of manifold learning-based tools for clinical interpretation and monitoring of running injuries using real-time systems. PID2023-152331OA-I00. Plan Estatal de Investigación Científica y Técnica y de Innovación 2021-2023. Desde el 1 de septiembre de 2024 hasta el 31 de agosto de 2027. Investigador/a principal: Francisco Manuel Melgarejo Meseguer. Financiación: 133.000 €. Otros/as investigadores/as participantes: María Eva Orantes González y Pablo Floría.