


**CURRICULUM VITAE**  
**AVISO IMPORTANTE – El Curriculum Vitae no podrá exceder de 4 páginas.**

<b>Date</b>	05/05/2024
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**Parte A. DATOS PERSONALES**

Name	Jorge		
Surname	Molina López		
Gender	Hombre	Date of birth	23-10-1985
DNI, NIE, passport	48.940.921-A		
Email	jorge.molina@ddi.uhu.es	URL Web	<a href="https://produccioncientifica.uhu.es/inv_estigadores/211069/detalle">https://produccioncientifica.uhu.es/inv_estigadores/211069/detalle</a>
Open Researcher and Contributor ID (ORCID)	orcid.org/0000-0003-2516-5226		

**A.1. Current professional situation**

Job	Full Professor of University		
Start date	January 2023		
Agency/ Institution	University of Huelva		
Department/ Center	Integrated Didactics. Didactics of Corporal Expression / Research Center COIDESO		
Country	Spain	Teléfono	620820977
Key words	Physical Activity; Exercise; Physiology; Nutrition; Clinical; Nutritional Assessment		

**A.2. Previous professional situation**

Periodo	Puesto/ Institución/ País / Motivo interrupción
2023 - Recent	University Professor
2021 - Recent	Hired Professor Doctor
2019 - 2021	Assistant Professor Doctor
2016 - 2019	Interim Substitute Professor
2016	Postdoctoral - COST TD1304. EU
2015	Postdoctoral - Bridge Contract. Plan Propio. University of Granada.
2011-2015	FPU Predoctoral Researcher (University Teacher Training).

**A.3. Academic Education**

Degree/Master's/Thesis	University/Country	Year
Ph.D. in Nutrition and T.A. International Mention	University of Granada	2013
Master in Human Nutrition	University of Granada	2009
Degree in Sports Sciences	University of Granada	2008

**Part B. CV SUMMARY (maximum 5000 characters, including spaces)**

I have been a Full Professor at the University since 01/2023 and serve as the Coordinator of the Degree and President of the CGCT for the Bachelor's Degree in Physical Activity and Sports Sciences at the University of Huelva. Regarding my research activity, since 2013, after completing my doctorate (Cum Laude, International Mention) under the supervision of Dr. E. Planells and Dr. L. J. Chiroso in the Physiology and Physical Education and Sports departments, my research trajectory has focused on studying nutritional markers related to oxidative stress, inflammation, and nutrient deficiencies in various target groups, particularly those associated with physical exercise. Initially, I worked with the research group CTS642: Research and Development in Physical Activity, Health, and Sports, followed by the HUM643 research group: Education, Motricity, and Onubense Research (EMOTION), and currently with the CTS-1133 research group: Physical Activity, Health Promotion, and Quality of Life (PAHPQoL). During this period, I completed national and international mobility stays at the following



institutions: 1. Institute of Tropical Diseases, University of Laguna (1); 2. Aix Marseille University (2); 3. King's College London (3); 4. Laboratory of Metals and Nanotechnology, Mendel University in Brno (4); and 5. University of Cáceres (5). I acquired analytical techniques for determining macro and micronutrients and analyzing biological samples, leading large teams at the molecular level (gene expression). Additionally, I participated in a European network (COST) and was a member of the TD1304 Zn-Network Cost Action Committee, also involved in the Zn-Biomarkers Discovery Working Group. I am part of the Academic and Quality Committees for the following master's programs: Official Master's in Investlog, Official Master's in Biological Analysis and Laboratory Diagnosis, Official Master's in Human Nutrition (UGR), Research Master's in Physical Education and Sports Sciences (UHU), and Bachelor's Degree in Physical Activity and Sports Sciences (UHU). I have supervised several theses, >40 Master's Final Projects, and >30 Bachelor's Final Projects. Furthermore, I have participated in various projects: 1 European (COST TD1307); 1 Autonomous Community (FMM 2011); 2 National Health Institute (FIS) projects (PI 07/1228, extended, and PI10 / 1993); Mutua Madrileña (2011-2014); and UGR R&D&I projects funded by the European Regional Development Fund (Andalusia 2014-2020, A-CTS-708-UGR20). Currently, I have published >55 international articles indexed in JCR, 4 book chapters, and 6 books, and I have made approximately >100 contributions to national and international conferences. I collaborate with international research groups:

Regarding the transfer of results, through contributions to conferences and the relevant publications mentioned, my participation in two contracts (68-83), one with the Huelva City Council and another with the Red Cross, has addressed the assessment of nutritional status and body composition in various populations. These include children with pathologies (in collaboration with the Complutense University of Madrid), patients with illnesses, menopausal women, sedentary or physically active adults, professional team sports athletes, and finally, adolescents (in collaboration with the University of Cáceres). Additionally, I have been involved in various research networks: the Human Locomotion, Health, Cognition, and Functionality Research Network for Older Adults (CSD). References: 23/UPB/21; the Sports Functional Dynamometry Research Network: 06/UPB/22 and 09/UPB/23, funded by the CSD to facilitate knowledge transfer among experts in the field. All this expertise extends to my teaching role. Since 2011, I have been teaching in the Physiology department at the University of Huelva, and since 2016, in the Department of Integrated Didactics. I teach in the Master's program in Research in Physical Education and Sports Sciences, the Bachelor's Degree in Physical Activity and Sports Sciences, the Bachelor's Degree in Primary Education, and the Bachelor's Degree in Social Education.

Starting in 2013, I began supervising doctoral theses affiliated with various doctoral programs. Currently, I am associated with the University of Granada (Nutrition and Food Sciences) and the University of Huelva (Research in Teaching and Learning of Experimental, Social, Mathematical, and Physical Education). Thanks to the research teams I have been part of, we have competed as a consolidated group in the PAIDI, achieving high rankings in our field of knowledge. I have also supervised two predoctoral FPU fellows and a predoctoral fellow at UHU. Since 2013, I have served as an evaluator for internationally indexed journals in the JCR.

## **Part C. LIST OF THE MOST RELEVANT CONTRIBUTIONS.**

### **C.1. Most important publications in books and peer-reviewed journals and conferences.**

1. Barrera-Domínguez, F. J., Jones, P. A., Almagro, B. J., & **Molina-López, J.** (2024). Determination of change of direction deficit thresholds across a spectrum of angles in basketball players. *Journal of sports sciences*, 1–8. Advance online publication. <https://doi.org/10.1080/02640414.2024.2354624> (Sport Sciences) IF 3.400 (Q1)
2. Lopez-Bermudez, E., Gomez-Baya, D., Planells, E., & **Molina-Lopez, J.** (2024). The mediational role of positive youth development in the relationship between physical activity and health-related quality of life in adolescents from urban and rural environments. *International Journal of Adolescence and Youth*, 29(1). <https://doi.org/10.1080/02673843.2024.2354917> (Psychology, Developmental) IF 4.500 (Q2)
3. Barrera-Domínguez, F. J., Almagro, B. J., & **Molina-López, J.** (2024). The Influence of Functional Movement and Strength upon Linear and Change of Direction Speed in Male and Female Basketball Players. *Journal of human kinetics*, 92, 147–159. <https://doi.org/10.5114/jhk/177313> (Sport Sciences) IF 2.300 (Q3)
4. Barrera-Domínguez, F. J., Martínez-García, D., Jerez-Mayorga, D., Chiroso-Ríos, L. J., Almagro, B. J.,

- & **Molina-López, J.** (2023). Vertical Versus Horizontal Training for Improving the Change of Direction Speed in Adult Basketball Players: A Systematic Review and Meta-analysis. *Journal of strength and conditioning research*, 10.1519/JSC.0000000000004674. Advance online publication. <https://doi.org/10.1519/JSC.0000000000004674> (Sport Sciences) IF 3.200 (Q2)
5. **Molina-López, J.**, Pérez, A. B., Gamarra-Morales, Y., Vázquez-Lorente, H., Herrera-Quintana, L., Sánchez-Oliver, A. J., & Planells, E. (2024). Prevalence of sports supplements consumption and its association with food choices among female elite football players. *Nutrition* (Burbank, Los Angeles County, Calif.), 118, 112239. <https://doi.org/10.1016/j.nut.2023.112239> (Nutrition & Dietetics) IF 4.400 (Q2)
6. Barrera-Domínguez FJ, Almagro BJ, de Villarreal ES, **Molina-López J.** Effect of individualised strength and plyometric training on the physical performance of basketball players. *Eur J Sport Sci.* 2023 Jul 20:1-28. doi: 10.1080/17461391.2023.2238690. Epub ahead of print. PMID: 37470434. (Sport Sciences) **IF 3.200 (Q2)**
7. **Molina-López J**, Herrera-Quintana L, Vázquez-Lorente H, Planells E. Evolution of Vitamin D Status and Vitamin D Receptor Gene Expression Among Professional Handball Athletes During a Competitive Period. Relationship with Body Composition, Calcium, Magnesium and Phosphorous. *Biol Trace Elem Res.* 2023 Jul 6. doi: 10.1007/s12011-023-03760-7. Epub ahead of print. PMID: 37410265. (Endocrinology & Metabolism) **IF 3.900 (Q2)**
8. Gamarra-Morales Y, Herrera-Quintana L, **Molina-López J\***, Vázquez-Lorente H, Machado-Casas JF, Castaño-Pérez J, Pérez-Villares JM, Planells E. Response to Intravenous N-Acetylcysteine Supplementation in Critically Ill Patients with COVID-19. *Nutrients.* 2023 May 8;15(9):2235. doi: 10.3390/nu15092235. PMID: 37405379; PMCID: PMC10181318. (Nutrition and Dietetics) **IF 5.900 Q1**
9. Sánchez-Miguel PA, **Molina-López J**, Vaquero-Solís M, Tapia-Serrano MA. Sedentary behaviours and their relationship with academic performance in adolescents: A mediation analysis. *J Sports Sci.* 2022 Dec; 40(23):2570-2577. doi: 10.1080/02640414.2023.2174731. Epub 2023 Feb 5. PMID: 36739532. (Sport Sciences) **IF 3.400 (Q1)**
10. Herrera-Quintana L, Vázquez-Lorente H, Carranco Romo MJ, Flores Buitrón EP, **Molina-López J\***, Moya MT, Planells E. Imbalanced dietary patterns, anthropometric, and body composition profiles amongst adults with Down syndrome. *Nutr Neurosci.* 2022 Dec 29:1-10. doi: 10.1080/1028415X.2022.2161139. PMID: 36579765. (Neurosciences) **IF 3.600 (Q1)**
11. Vázquez-Lorente H, Herrera-Quintana L, **Molina-López J\***, y cols. Relationship between Body Composition and Biochemical Parameters with Antioxidant Status in a Healthy Cohort of Postmenopausal Women. *Metabolites.* 2022 Aug 14;12(8):746. doi: 10.3390/metabo12080746. PMID: 36005618; PMCID: PMC9412505. (Biochemistry & Molecular Biology) **IF 5.581 (Q2)**
12. Vázquez-Lorente H, Herrera-Quintana L, **Molina-López J\***, y cols. Need of nutritional assessment and monitoring in a population with acquired brain injury: an analytical cross-sectional study. *Nutr Neurosci.* 2022 May 2:1-10. doi: 10.1080/1028415X.2022.2065815. Epub ahead of print. PMID: 35499860. (Neurosciences) **IF 4.062 (Q2)**
13. Vázquez-Lorente H, **Molina-López J\***, y cols. Erythrocyte Zn concentration and antioxidant response after supplementation with Zn in a postmenopausal population. A double-blind randomized trial. *Exp Gerontol.* 2022 Jun 1;162:111766. doi: 10.1016/j.exger.2022.111766. Epub 2022 Mar 9. PMID: 35278643. (Geriatrics & Gerontology) **IF 4.253 (Q2)**
14. Cañizares-Prado S, **Molina-López J\***, y cols. Oral Function and Eating Habit Problems in People with Down Syndrome. *Int J Environ Res Public Health.* 2022 Feb 24;19(5):2616. doi: 10.3390/ijerph19052616. PMID: 35270327; PMCID: PMC8909609. (Public, Environmental & Occupational Health) **IF 4.614 (Q1)**
15. **Molina-López J**, y cols. Food selectivity, nutritional inadequacies, and mealtime behavioral problems in children with autism spectrum disorder compared to neurotypical children. *Int J Eat Disord.* 2021 Dec;54(12):2155-2166. doi: 10.1002/eat.23631. Epub 2021 Oct 27. PMID: 34704615. (Nutrition and Dietetics) **IF 5.791 (Q1)**

## C.2. Congress.

1. **Oral communication.** Barrera-Domínguez FJ, Sáez de Villarreal E, Almagro BJ, **Molina-López J.** Decisive factors for a greater performance in linear-multidirectional speed in basketball players based on gender. Barrera-Domínguez, F.J.; Almagro-Torres, B.J.; Molina-López, J. XIV Strength Symposium. 16-17/12/2022.
2. **Oral communication.** Barrera-Domínguez FJ, Sáez de Villarreal E, Almagro BJ, **Molina-López J.** Effect of individualized strength and plyometric training on the physical performance of basketball players.

- 8º Congreso Internacional de Readaptación y Prevención de Lesiones Actividad Física y el Deporte. 6º Congreso Internacional de Salud y Ejercicio Físico. FUNIBER. NSCA España. 1-10/04/2022
3. **Oral communication.** Subjective and objective internal loads after five successive badminton matches accumulation in a national competition Barrera-Domínguez FJ, Rubio Arrabal, C, Molina-López J. VI Congreso Internacional en Optimización del Entrenamiento y Readaptación Físico-Deportiva. ESYDE Formación y la Fundación San Pablo Andalucía CEU. Sevilla, SP. 20-21/05/2022
4. **Oral communication.** Effect of 8 weeks of combined individualized training on change of direction and jump performance of basketball players. Barrera-Domínguez FJ, Sáez de Villarreal E, **Molina-López J.** XI Congreso Internacional de la Asociación Española de Ciencias del Deporte. Asociación Española de Ciencias del Deporte. Murcia, SP. 27-29/10/2021
5. **Oral communication.** Influencia de las asimetrías en el equilibrio dinámico y saltos en el rendimiento de Deportes de equipo: Una comparación entre deportes en atletas de baloncesto y balonmano. Barrera-Domínguez FJ, Carmona A, **Molina-López J.** 7º Congreso Internacional de Readaptación y Prevención de Lesiones Actividad Física y el Deporte. 5º Congreso Internacional de Salud y Ejercicio Físico. FUNIBER. NSCA España. 09-25/04/2021.
6. **Oral communication.** Decisive factors for a greater performance in the change of direction and its angulation in male basketball players. Barrera-Domínguez, FJ, Almagro B, Tornero I, Sáez J, Sierra A, **Molina-López J.** X Congreso Ibérico / III Congreso Iberoamericano de Baloncesto. Nuevas Tendencias en la Investigación sobre Formación, Rendimiento, Acondicionamiento Físico, Entrenamiento, Evaluación y Salud. Universidad de Extremadura y cols. 09-11/12/2020.
7. **Invited speech.** The Application of Curve Fitting on the Voltammograms of Various Isoforms of Metallothioneins-Metal Complexes. Merlos Rodrigo MA, **Molina-López J,** y cols. Zinc-Net (Cost Action TD1304). University Central Lancashire, Cyprus campus, CY. 18-22/06/2017.
8. **Invited speech.** Zn transporter expression profiles in human skeletal muscle derived fibroblasts following fatty acid treatments. **Molina-López J,** Jaka O, Harridge S, Maret W, Hogstrand C. Zinc-Net (Cost Action TD1304). Antalia, Turquía. 02-04/11/2015.
9. **Invited speech.** Electrochemical characterization of metallothionein and interaction with Zinc. Molina-López J, Merlos Rodrigo MA, y cols. Zinc-Net (Cost Action TD1304). University College London Institute of Ophthalmology, UK. 04-05/11/2014.
10. **Invited speech.** Dietetics supplements in high performance players as an instrument to improve health and performance. **Molina Lopez J.** I Congreso de Investigación y Formación en Balonmano. Universidad de Granada. Granada, SP. 01-02/06/2012.

### C.3. Projects or lines of research in which you have participated.

1. Response to intervention with n-acetylcysteine and other antioxidants, and study of prognostic biomarkers during ICU stay in critically ill patients by Covid-19. Entity: R+D+i projects within the framework of the FEDER Operational Program. Call: National. Participating entities: University of Granada. Jan 2021 Dec 2023. PI Elena Planells. 25,000 euros.
2. European COST Project. Management Committee Member COST Action Zn-Network TD-1304. Duration: 2014 - 2017. MSC of Working Group Biomarkers Discovery. COST Action Zn-Network TD-1304: Elena Planells. 2,000,000 euros.
3. Study of comprehensive intervention in autistic children. Paloma Planells. Entity: Mutua Madrileña Foundation. Participating entities: University of Granada. 2011 a 2015. 15,000 euros.
4. Study of oxidative stress and malnutrition in the development of systemic inflammatory response syndrome: genetic factors. Entity: Health research fund (FIS) PI10/1993. Participating entities: University of Granada. PI: Elena Planells. Date: 2011-2014. 150.000 €.
5. Nutritional status in the antioxidant critically ill patient: multicenter study in Granada. Entity: Translational Excellence International (GREIB). Call: International. Participating entities: University of Granada. 2010 - 2011. PI: Elena Planells. Amount: 10,000 euros.





#### **C.4. Participation in technology/knowledge transfer activities and exploitation of results.**

1. Contract 68/83: Promotion of healthy aging: Salud Constante. Proposal of intervention through physical exercise to improve the quality of life and prevention of falls in the elderly. University of Huelva and Red Cross. 9 months from the date of signature on 20-03-2023. PI Jesús Sáez Padilla. 1,000 euros. Participating researcher.
2. Contract 68/83: Huelva, the light of sport. Project to promote the city of Huelva as a permanent training venue and organizer of international sporting events. Sports, tourism and heritage. University of Huelva and Huelva City Council. 6 months from the date of signature on 25-01-2019. PI Jesús Sáez Padilla and Inmaculada Tornero Quiñones. 6,534 euros. Participating researcher.
3. RDFD sports functional dynamometry network. PI: Luis Javier Chiroso Ríos (University of Granada). IE: Jorge Molina López et al. Duration: 2023. 09/UPB/23.
4. RDFD sports functional dynamometry network. PI: Luis Javier Chiroso Ríos (University of Granada). IE: Jorge Molina López et al. Duration: 2022. 06/UPB/22.
5. ANDARED. Research Network on Human Locomotion, Health, Cognition and Functionality of the Elderly (CSD). PI: Pedro A. Latorre (University of Jaén). IE: Jorge Molina López et al. Duration: 2021. 23/UPB/21.

#### **C5. Awards.**

1. Name: GRIFOLS/SENPE-SENPE FOUNDATION Award 2016. Affiliation entity: SENPE-FUNDACIÓN SENPE 2016. Start-End Date: 07/07/2016
2. Name: Handball Spanish University Champion. Affiliation entity: Spanish University Championships (CSD). Start-End Date: 2009
3. Name: Handball Spanish University Champion. Affiliation entity: Spanish University Championships (CSD). Start-finish date: 2010
4. Name: Third place at the Spanish University Handball Championship. Affiliation entity: Spanish University Championships (CSD). Start-finish date: 2011
5. Name: Champion of Spain 2nd National Handball Division - Promotion to 1st National Division. Affiliation entity: CSD: Handball. Start-End Date: 2006/2007
6. Name: Spanish 1st National Handball Division Champion - Promotion to Honor Division B. Affiliation Entity: CSD: Handball. Start-End Date: 2007/2008
7. Name: Territorial Handball Coach. Affiliation entity: CSD: Handball/FABM. Date of issue: 15/01/2017