

CURRICULUM VITAE (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

CV date	July 2025
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Part A. PERSONAL INFORMATION

First name	Alegría		
Family name	Carrasco Pancorbo		
Gender (*)	Female	Birth date (dd/mm/yyyy)	
Social Security, Passport, ID number	-	-	
e-mail	-	URL Web	
Open Researcher and Contributor ID (ORCID)	0000-0001-8856-4676	Scopus Author ID: 8833508300	

A.1. Current position

Position	Full Professor		
Initial date	18/12/2018		
Institution	University of Granada		
Department/Center	Department of Analytical Chemistry. Faculty of Science		
Country	Spain	Teleph. number	-
Key words	Food analysis, advanced analytical techniques (LC-MS, GC-MS, CE-MS), mass spectrometry, food metabolomics, olive oil and olive by-products, tropical fruits		

A.2. Previous positions (research activity interruptions, see call)

Period	Position/Institution/Country/Interruption cause
2003-2006	Pre-doctoral fellow-FPU (UGR)
2007-2008	Post-doctoral researcher at Leiden University Medical Center (The Netherlands)
01/10/2008 al 20/09/2011	Assistant Professor (Profesora Ayudante Doctor-UGR)
21/09/2011 - 31/10/2011	Lecturer (Profesora Contratado Doctor-UGR)
01/11/2011 al 18/12/2018	Associate Professor (Profesora Titular (UGR)

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Degree in Chemistry	University of Granada / Spain	2003
Diploma of Advanced Studies (DEA)	University of Granada / Spain	2004
European PhD in Chemistry *San Alberto Magno award / *Extraordinary award	University of Granada / Spain	2006

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

My **scientific contributions** have mainly focused on the extraction of minor compounds of interest from food matrices (olive oil, tropical fruits -avocado-, etc.) and their subsequent characterisation using innovative analytical methodologies based on both targeted and non-targeted metabolomics approaches (in all cases, mass spectrometry plays a crucial role). The work carried out has allowed us, for example:

- to develop methodologies of great potential and utility in the olive industry and in the tropical fruit sector;
- to exhaustively characterise avocado extracts and olive products and by-products,

- c) to identify and isolate compounds with interesting bioactivity, and
- d) to discriminate food extracts on the basis of their geographical origin, botanical variety and agro-technological parameters for obtaining them.

All this research experience is supported by more than 125 scientific articles (most of them in the first quartile (Q1)), 21 book chapters and 2 books. I have been a collaborating researcher in a total of 35 R&D projects financed in public calls (5 of them European) and 8 R&D contracts of special relevance with companies and/or administrations (being PI in 9 of them). I have an H index of 40 and I have 4759 total citations (receiving an average number of citations/year, over the last 5 years, of more than 350 citations/year). My name has been included in several of the latest editions of the "Ranking of the World Scientists: World's Top 2% Scientists" list. I have more than 250 conference contributions (most of them international), including a significant number of oral communications (42) and invited lectures (21). I have received 5 research awards (at pre-doctoral, post-doctoral and senior stages) throughout my career.

One of the facets of my research activity that I believe deserves to be highlighted is the large number of collaborations that I maintain active. In recent years, I have collaborated with several national and international research centres: Instituto de Hortofruticultura Subtropical y Mediterránea La Mayora (CSIC, Málaga), Universidad Nacional de Educación a Distancia (UNED), The University Institute of Research on Olive and Olive Oils (INUO)-University of Jaén, Instituto de Investigación y Formación Agraria y Pesquera (IFAPA)-Centro Alameda del Obispo (Córdoba), Universidad de Vigo, Universidad de Almería, University of Bologna (Italy), Leiden University Medical Center (The Netherlands), Wageningen University (The Netherlands), IBAM-CONICET-Mendoza (Argentina), UC Davis Olive Center (California, USA), Pontificia Universidad Católica de Valparaíso (Chile), etc.

In terms of **contributions to society**, I have collaborated with a total of 18 private companies (Bruker Daltonics, CM Europa S.L., San Francisco de Asís de Montefrío S.C.A, GEA Westfalia Separator Iberica S.A., Trops, Huerta Tropical, ASAJA Asociación Agraria Jóvenes Agricultores, Aguacastur, etc.). I frequently participate in scientific dissemination activities, in the "Aula de Mayores" of the University of Granada, giving informative lectures in cultural centres and institutes, and teaching in courses and seminars for non-specialised attendees. I have been PI of several projects of University Cooperation for Development, Awareness and Education for Development funded by the Centre for Development Cooperation Initiatives (Cicode) of the UGR.

With regard to my contribution to the **training of young researchers**, I have supervised 18 Master's theses, 15 Bachelor's theses, 4 Master's theses (in Italian universities) and 5 doctoral theses, and I am currently supervising another two that are under development. I teach in 3 Official Master's Degrees. I have supervised 10 postdoctoral researchers and 15 pre-doctoral researchers who have completed stays within our research group. I have also participated as a mentor in 6 editions of training programmes (mentoring/coaching programmes) for young lecturers.

I am a member of the Committee of Evaluators of the National Fund for Scientific and Technological Development (FONDECYT) of Chile, of the Expert Bank of the State Research Agency (Spain), and of the National Agency for Scientific and Technological Promotion, Ministry of Science, Technology and Productive Innovation (Argentina). I have proven experience in the organisation of R&D activities, having participated in the Organising Committee of 8 international scientific congresses and been Technical Secretary in summer courses, Coordinator and Secretary in several University Conferences, Vice-president of the Organising Committee of several meetings of the Spanish Society of Mass Spectrometry and organiser of 5 training courses-workshops in Bolivia (in collaboration with the Universidad Mayor de San Simón, Cochabamba).

Part C. RELEVANT MERITS

C.1. Publications (10 publications selected as example)

1. Serrano-García, I; Dominguez-García, J; Hurtado-Fernández, E; González-Fernández, JJ; Hormaza, JI; Beiro-Valenzuela, MG; Monasterio, R; Pedreschi, R; Olmo-García, L; **Carrasco-Pancorbo, A**. Assessing the RP-LC-MS-Based Metabolic Profile of *Hass* Avocados Marketed in Europe from Different Geographical Origins (Peru, Chile, and Spain) over the Whole Season. *Plants*, 2023, 12(16), Article Number 3004. [10.3390/plants12163004](https://doi.org/10.3390/plants12163004)
2. Cardoni, M; Olmo-Garcia, L; Serrano-Garcia, I; **Carrasco-Pancorbo, A**; Mercado-Blanco, J. The roots of olive cultivars differing in tolerance to *Verticillium dahliae* show quantitative differences in phenolic and triterpenic profiles. *Journal of Plants Interactions* 2023, 18, 1, Article Number 2206840. [10.1080/17429145.2023.2206840](https://doi.org/10.1080/17429145.2023.2206840)

3. Serrano-Garcia, I; Hurtado-Fernandez, E; Gonzalez-Fernandez, JJ; Hormaza, JI; Pedreschi, R; Reboredo-Rodriguez, P; Figueiredo-Gonzalez, M; Olmo-Garcia, L; **Carrasco-Pancorbo, A.** Prolonged on-tree maturation vs. cold storage of *Hass* avocado fruit: Changes in metabolites of bioactive interest at edible ripeness. *Food Chem.* 2022, 394, Article Number 133447. [10.1016/j.foodchem.2022.133447](https://doi.org/10.1016/j.foodchem.2022.133447)
4. Olmo-García L; **Carrasco-Pancorbo A.** Chromatography-MS based Metabolomics applied to the study of virgin olive oil bioactive compounds: characterization studies, agro-technological investigations and assessment of healthy properties. *TrAC-Trends in Analytical Chemistry*, 2021, 135:116153. [10.1016/j.trac.2020.116153](https://doi.org/10.1016/j.trac.2020.116153)
5. Olmo-García, L, Fernández-Fernández, C., Hidalgo, A, Vilchez, P, Fernández-Gutiérrez, A, Marchal, R, **Carrasco-Pancorbo, A.** Evaluating the reliability of specific and global methods to assess the phenolic content of virgin olive oil: do they drive to equivalent results?. *Journal of Chromatography A* 2019, 1585, 56-69. [10.1016/j.chroma.2018.11.031](https://doi.org/10.1016/j.chroma.2018.11.031)
6. Olmo-Garcia, L; Bajoub, A; Monasterio, RP; Fernandez-Gutierrez, A; **Carrasco-Pancorbo, A.** Metabolic profiling approach to determine phenolic compounds of virgin olive oil by direct injection and liquid chromatography coupled to mass spectrometry. *Food Chemistry*, 2017, 231, 374-385. [10.1016/j.foodchem.2017.03.139](https://doi.org/10.1016/j.foodchem.2017.03.139)
7. Bajoub, A; Medina-Rodriguez, S; Gomez-Romero, M; Ajal, E; Bagur-Gonzalez, MG; Fernandez-Gutierrez, A; **Carrasco-Pancorbo, A.** Assessing the varietal origin of extra-virgin olive oil using liquid chromatography fingerprints of phenolic compound, data fusion and chemometrics. *Food Chemistry* 2017, 215, 245-255. [10.1016/j.foodchem.2016.07.140](https://doi.org/10.1016/j.foodchem.2016.07.140)
8. Hurtado-Fernandez, E, Gonzalez-Fernandez, JJ, Hormaza, JI, Bajoub, A, Fernandez-Gutierrez, A, **Carrasco-Pancorbo, A.** Targeted LC-MS Approach to Study the Evolution over the Harvesting Season of Six Important Metabolites in Fruits from Different Avocado Cultivars. *Food Analytical Methods*. 2016, 12, 3479-3491. [10.1007/s12161-016-0523-5](https://doi.org/10.1007/s12161-016-0523-5)
9. Hurtado-Fernandez, E, Bajou, A, Morales, JC, Fernandez-Gutierrez, A, **Carrasco-Pancorbo, A.** Exploratory analysis of avocado extracts by GC-MS: new insights into the avocado fruit ripening process. *Analytical Methods*. 2015, 7 (17), 7318-7326. [10.1039/c5ay00767d](https://doi.org/10.1039/c5ay00767d)
10. Hurtado-Fernandez, E, Pacchiarotta, T, Mayboroda, OA, Fernandez-Gutierrez, A, **Carrasco-Pancorbo, A.** Metabolomic analysis of avocado fruits by GC-APCI-TOF MS: effects of ripening degrees and fruit varieties. *Analytical and Bioanalytical Chemistry*, 2015, 407(2), 547-555. [10.1007/s00216-014-8283-9](https://doi.org/10.1007/s00216-014-8283-9)

C.2. Congress

Regular participation in congresses such as: EuroFedLipid (one of the most prestigious in the field of olive oil and other fats), international avocado congresses, Metabolomics conferences, ASMS Conference on Mass Spectrometry and Allied Topics, ITP-International Symposium on electro- and liquid-phase separation techniques, EuroAnalysis, meetings of the Mass Spectrometry and Chromatography societies, Spanish Society of Analytical Chemistry (SEQA), etc. In total [more than 250 conference contributions \(most of them international\)](#), including a significant number of oral communications (42) and invited lectures (21).

C.3. Research projects (10 examples of the last 10 years)

1. **Project title:** AgriBioPack (Valorizing Agrifood Residues for Bio-based Packaging Solutions). **Funding source and budget:** PRIMA Section 2 2023. (1.555.201,09 €). **PI:** Francesco Donsi. Coordinating Institution: University of Salerno. **PI UGR (Alegría Carrasco Pancorbo).** **Dates (from-to):** Project formally selected for funding and expected to start in June 2023. <https://prima-med.org/prima-section-2-results/>
2. **Project title:** SAPHIRA (Sustainable antimicrobial packaging based on a healthy intelligent renewable approach). **Funding source and budget:** PRIMA Section 2 2023. (1.210.101,13 €). **PI:** Ilaria Cacciotti. Coordinating Institution: University Niccolò Cusano. **PI UGR (Jorge F. Fernández Sánchez).** **Dates (from-to):** Project formally selected for funding and expected to start in June 2023. <https://prima-med.org/prima-section-2-results/> **Type of participation:** Member of the research team.
3. **Grant code:** PID2021-128508OB-I00. **Project title:** Nuevas herramientas metabolómicas para impulsar la industria del aguacate español. **Funding source and budget:** Proyectos del Plan Nacional (114.950 €). **PI: Alegría Carrasco Pancorbo / Co-IP:** Jorge F. Fernández Sánchez. **Dates (from-to):** 01/09/2022-31/08/2025.
4. **Grant code:** PY20_00263. **Project title:** Herramientas metabolómicas y nuevos materiales de aplicación en el ámbito oleícola. **Funding source and budget:** Proyectos de Excelencia de la Junta

de Andalucía – Ayudas a proyectos de I+D+i de entidades públicas (70.000 €). **PI: Alegría Carrasco Pancorbo** (UGR). **Dates (from-to):** 10/2021-09/2024.

5. **Grant code:** B-AGR-416-UGR18. **Project title:** Herramientas Ómicas de aplicación en el ámbito oleícola: Evaluación de la «Singularidad» de aceites de oliva virgen extra andaluces e identificación de variedades resistentes a Verticilosis (Olivomics). **Funding source and budget:** Programa Operativo FEDER Andalucía 2014-2020, Andalusian Regional Government (18.650,00 €). **PI: Alegría Carrasco Pancorbo** (UGR). **Dates (from-to):** 01/01/2020-30/03/2022.
6. **Grant code:** 633595. **Project title:** DYNAHEALTH - Understanding the dynamic determinants of glucose homeostasis and social capability to promote Healthy and active aging. **Funding source and budget:** European Commission. H2020-PHC-2014-two-stage. (5.917.265,50 €). **PI:** Marjo-Riitta Jarvelin (Centre for Life-Course Health Research and the Northern Finland Cohort Centre at the University of Oulu in Finland). **Type of participation:** Member of the research team. **Dates (from-to):** 05/2015-04/2019.
7. **Grant code:** CTQ2017-88079-P. **Project title:** Avances en la utilización de materiales inteligentes para el análisis de compuestos de interés en áreas biosanitarias y alimentarias. **Funding source and budget:** Spanish Ministry of Economy and Competitiveness (84.700 €). **PI:** Jorge F. Fernández Sánchez and Alberto Fernández Gutiérrez (UGR). **Type of participation:** Member of the research team. **Dates (from-to):** 01/01/2018-31/12/2020.
8. **Grant code:** ITC-20151142. **Project title:** Desarrollo de suplementos alimenticios a partir de los productos del olivar dirigidos a la protección cardiovascular humana (CARDIOLIVE). **Funding source and budget:** Centro para el Desarrollo Tecnológico Industrial (CDTI) / Fondo Europeo de Desarrollo Regional (FEDER) (1.544.461,90 €). **PI:** Juan Rafael Granados Moreno (S.C.A. San Francisco de Asís), **Alegría Carrasco Pancorbo** (IP UGR). **Dates (from-to):** 01/12/2015-28/02/2018.
9. **Grant code:** P09-FQM-5469. **Project title:** Innovaciones metodológicas en el ámbito de técnicas separativas acopladas a espectrometría de masas para la determinación de metabolitos en fluidos biológicos. **Funding source and budget:** Junta de Andalucía. Convocatoria: PE 2009 (100.000 €). **PI: Alegría Carrasco Pancorbo** (UGR). **Dates (from-to):** 02/02/10-01/02/14.
10. **Grant code:** 212652. **Project title:** Nutrimenthe: Role that diet plays in the mental performance of children. **Funding source and budget:** European Commission - DG Research. Directorate E- Life Sciences: biotechnology, agricultural and food research (6.200.000 €). **PI:** Cristina Campoy Folgoso (UGR). **Type of participation:** Member of the research team. **Dates (from-to):** 01/01/2008-31/12/2013.

C.4. Contracts, technological or transfer merits (some examples of the last 12 years)

1. **Reference:** OTRI-3667. **Title/Description:** Asesoramiento Científico-Técnico e implementación de metodologías para determinación de compuestos minoritarios de matrices oleícolas. **Company/entity and budget:** CM Europa S.L. (49.610 €). **PI: Alegría Carrasco Pancorbo** (UGR). **Dates (from-to):** 01/01/2015-31/12/2018.
3. **Reference:** OTRI-3637. **Title/Description:** Certificación y distribución de nueve materiales de referencia certificados (MRC) para análisis organoléptico de aceite de oliva (SensOLEO-MRC 2015). **Company/entity and budget:** Department of Agriculture, Fisheries and Environment, Regional Government of Andalusia (29.040 €). **PI:** Luis Cuadros Rodríguez (UGR). **Dates (from-to):** 02/09/2015-17/01/2016.
4. **Reference:** OTRI-3191. **Title/Description:** Adquisición de cuatro materiales de referencia certificados de aceite (Campaña InterOLEO-MRC 2013). **Company/entity and budget:** Consejería de Agricultura, Pesca y Medio Ambiente (CAPMA), Junta de Andalucía (56.749 €). **PI:** Luis Cuadros Rodríguez (UGR). **Dates (from-to):** 17/12/2012-16/05/2013.