

Fecha del CVA	22/12/2021
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Parte A. DATOS PERSONALES

Nombre	Oscar		
Apellidos	Gonzalez Mendia		
Sexo	Hombre	Fecha de Nacimiento	03/09/1983
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Open Researcher and Contributor ID (ORCID)			

A.1. Situación profesional actual

Puesto	Profesor adjunto		
Fecha inicio	2021		
Organismo / Institución	Universidad del País Vasco		
Departamento / Centro	Fine Arts Faculty / Facultad de Ciencia y Tecnología		
País		Teléfono	
Palabras clave			

A.3. Formación académica

Grado/Master/Tesis	Universidad / País	Año
Chemistry (UPV/EHU)	Universidad del País Vasco	2011
BsC in Chemistry	Universidad del País Vasco	2006

Parte B. RESUMEN DEL CV

I obtained a degree in Chemistry at the University of the Basque Country in June 2006 with the special prize award. During my PhD studies I worked in the development of more reliable analytical methods for the quantification of drugs and metabolites in biofluids to be applied in PK/PD studies. I did a 5 months stay in the Legal Medicine laboratory at Freiburg University (Germany) working in the research group of Professor Wolfgang Weinmann, When I returned to my home university, I implemented the acquired knowledge in my laboratory and I started working as an Analytical Chemistry lecturer while I continued with the supervision of master students. I managed to combine this teaching with intense research activity until I completed my PhD in 2011 with the Cum Laude grade and the "Doctor Europeus" mention.

In May 2012, I was offered a position in industry (Aquimisa Corp.), and this provided me with valuable experience in food analysis and research in an industrial setting. In December 2012 I was offered an outstanding opportunity by means of a post-doctoral Grant for the development and international mobility of researchers. Therefore, in January 2013 I was awarded a position at the Bioanalytical Science Division of Leiden University (The Netherlands) to work at one of the most recognized centres for metabolomics research worldwide under the supervision of Professor Thomas Hankemeier. In January 2015, on successful completion of my contract, I returned to my home university to transfer my knowledge to the group of Professor Rosa M. Alonso.

Since April 2015 I combine my research in metabolomics and drug analysis with teaching activities. In July 2021 I obtained a position as a lecturer at the University of the Basque Country (Profesor Adjunto). During my research career I have supervised three PhD thesis and I have published in the highest impact journals in the field (Analytical Chemistry and Analytical and Bioanalytical Chemistry). I am not only committed with excellence science but also with science dissemination. For this aim, I regularly publish popular science articles and I collaborate with several radio stations such as Euskadi Irratia, Radio Euskadi in Radio Vitoria. I have also published a book entitled "Por qué los girasoles se marchitan" (Cálamo).

My career shows a consistent itinerary which allowed me to gain experience in research both in industry and academia. I have worked as a lecturer and I have supervised several researchers during the last few years. My area of knowledge is not limited to a single field and I have shown enthusiasm in working in new areas such food analysis, metabolomics and arts.

Parte C. LISTADO DE APORTACIONES MÁS RELEVANTES

C.1. Publicaciones más importantes en libros y revistas con “peer review” y conferencias

AC: Autor de correspondencia; (nº x / nº y): posición firma solicitante / total autores. Si aplica, indique el número de citaciones

- 1 **Artículo científico.** B. Uribe; A. Yaldebere; O. González; et al; R.M. Alonso. (3/9). 2022. Study of antifungal agent caspofungin adsorption to laboratory materials Journal of Chromatography B. 1188. <https://doi.org/10.1016/j.jchromb.2021.123060>
- 2 **Artículo científico.** Xabier Guruceaga; Uxue Pérez-Cuesta; Aize Pellon; et al; Oskar González; Aitor Rementeria. (6/13). 2021. Aspergillus fumigatus Fumagillin Contributes to Host Cell Damage Journal of Fungi. 7-11, pp.936. <https://doi.org/10.3390/jof7110936>
- 3 **Artículo científico.** O. González (AC); A. Yaldebere; X. Guruceaga; A. Ramírez-García; A. Rementeria; R.M. Alonso. (1/6). 2021. A novel SPE-UHPLC-DAD method for the determination of fumagillin produced by Aspergillus fumigatus in cell culture media Microchemical Journal. 169. <https://doi.org/10.1016/j.microc.2021.106605>
- 4 **Artículo científico.** R.M. Alonso; M.L. Alonso; O. González. 2021. Optimization and Validation of HS-GC/MS Method for the Controlled Release Study of Microencapsulated Specific Bioattractants for Target-Plaguicide Production Molecules. 26(4)-996, pp.1-14.
- 5 **Artículo científico.** O.E. Albóniga; O. González; R.M. Alonso; Y. Xu; R. Goodacre. (2/5). 2020. Comparison of liver and plasma metabolic profiles in Piglets of different ages as animal models for paediatric population Analyst. 16-14.
- 6 **Artículo científico.** B. Uribe; O. González; I. Ourliac-Garnier; P. Le Pepe; B.B. Ba; R.M. Alonso; K. Gaudin. (2/7). 2020. Determination of antifungal caspofungin in RPMI-1640 cell culture medium by column-switching HPLC-FLD Journal of Pharmaceutical and Biomedical Analysis. 188.
- 7 **Artículo científico.** Oihane Elena Albóniga; Oskar González; Rosa M Alonso; Yun Xu; Royston. (2/5). 2020. Optimization of XCMS parameters for LC-MS metabolomics: an assessment of automated versus manual tuning and its effect on the final results Metabolomics. 16-14. ISSN 1573-3890. <https://doi.org/10.1007/s11306-020-1636-9>
- 8 **Artículo científico.** Beatriz Uribe; Oskar González; María Encarnación Blanco; Oihane Elena Albóniga; María Luz Alonso; Rosa M Alonso. (2/6). 2019. Analysis of the heterogeneous distribution of amiloride and propranolol in dried blood spot by UHPLC-FLD and MALDI-IMS Molecules. 24-23, pp.4320-4329. ISSN 1420-3049. <https://doi.org/10.3390/molecules24234320>
- 9 **Artículo científico.** Gonzalez, Oskar; Encarnacion Blanco, Maria; Rico, Estitxu; Luz Alonso, Maria; Itxaso Maguregui, Miren; Maria Alonso, Rosa. (1/6). 2017. Efficient Method Development and Validation for the Determination of Cardiovascular Drugs in Human Plasma by SPE-UHPLC-PDA-FLD Chromatographia. 80-4, pp.605-615. ISSN 0009-5893. <https://doi.org/10.1007/s10337-017-3274-6>
- 10 **Artículo científico.** Blanco, María Encarnación; González, Oskar; Albóniga, Oihane Elena; Alonso, María Luz; Alonso, Rosa María. (2/5). 2017. Metabolomic analysis for the study of maturation in pediatrics: Effect of confounding factors in a pilot study ELECTROPHORESIS. 38-18, pp.2323-2330. ISSN 1522-2683. <https://doi.org/10.1002/elps.201700026>
- 11 **Artículo científico.** Albóniga, O.E.; Alonso, M.L.; Blanco, M.E.; González, O.; Grisaleña, A.; Campanero, M.A.; Alonso, R.M.(4/7). 2017. Quantitative determination of dobutamine in newborn pig plasma samples by HPLC-MS/MS Journal of Pharmaceutical and Biomedical Analysis. 145, pp.178-185. ISSN 0731-7085. <https://doi.org/10.1016/j.jpba.2017.06.050>

- 12 Artículo científico.** Kantae, V.; Krekels, E. H. J.; Ordas, A.; et al; Gonzalez, O.; Hankemeier, T.(4/10). 2016. Pharmacokinetic Modeling of Paracetamol Uptake and Clearance in Zebrafish Larvae: Expanding the Allometric Scale in Vertebrates with Five Orders of Magnitude *Zebrafish*. 13-6, pp.504-510. ISSN 1545-8547. <https://doi.org/10.1089/zeb.2016.1313>
- 13 Artículo científico.** Gonzalez, Oskar; van Vliet, Michael; Damen, Carola W N; van der Kloet, Frans M; Vreeken, Rob J; Hankemeier, Thomas. 2015. Matrix Effect Compensation in Small-Molecule Profiling for an LC-TOF Platform Using Multicomponent Postcolumn Infusion.*Analytical chemistry*. 87-12, pp.5921-9. ISSN 1520-6882. <https://doi.org/10.1021/ac504268y>
- 14 Artículo científico.** Blanco, M. E.; Encinas, E.; Gonzalez, O.; Rico, E.; Vozmediano, V.; Suarez, E.; Alonso, R. M.2015. Quantitative determination of fentanyl in newborn pig plasma and cerebrospinal fluid samples by HPLC-MS/MS *Drug Testing and Analysis*. 7-9, pp.804-811. ISSN 1942-7611. <https://doi.org/10.1002/dta.1778>
- 15 Artículo científico.** Rico, Estitxu; Gonzalez, Oskar; Encarnacion Blanco, Maria; Maria Alonso, Rosa. 2014. Evaluation of human plasma sample preparation protocols for untargeted metabolic profiles analyzed by UHPLC-ESI-TOF-MS *Analytical and Bioanalytical Chemistry*. 406-29, pp.7641-7652. ISSN 1618-2642. <https://doi.org/10.1007/s00216-014-8212-y>
- 16 Artículo científico.** Gonzalez, Oskar; Maria Alonso, Rosa; Ferreiros, Nerea; Weinmann, Wolfgang; Zimmermann, Ralf; Dresen, Sebastian. 2011. Development of an LC-MS/MS method for the quantitation of 55 compounds prescribed in combined cardiovascular therapy *Journal of Chromatography B-Analytical Technologies in the Biomedical and Life Sciences*. 879-3-4, pp.243-252. ISSN 1570-0232. <https://doi.org/10.1016/j.jchromb.2010.12.007>
- 17 Artículo científico.** Gonzalez, Oskar; Iriarte, Gorka; Rico, Estitxu; Ferreiros, Nerea; Itxaso Maguregui, Miren; Maria Alonso, Rosa; Maria Jimenez, Rosa. 2010. LC-MS/MS method for the determination of several drugs used in combined cardiovascular therapy in human plasma *Journal of Chromatography B-Analytical Technologies in the Biomedical and Life Sciences*. 878-28, pp.2685-2692. ISSN 1570-0232. <https://doi.org/10.1016/j.jchromb.2010.07.026>
- 18 Artículo científico.** Gonzalez, Oskar; Iriarte, Gorka; Ferreiros, Nerea; Itxaso Maguregui, Miren; Maria Alonso, Rosa; Maria Jimenez, Rosa. 2009. Optimization and validation of a SPE-HPLC-PDA-fluorescence method for the simultaneous determination of drugs used in combined cardiovascular therapy in human plasma *Journal of Pharmaceutical and Biomedical Analysis*. 50-4, pp.630-639. ISSN 0731-7085. <https://doi.org/10.1016/j.jpba.2008.10.037>
- 19 Artículo científico.** Iriarte, Gorka; Gonzalez, Oskar; Ferreiros, Nerea; Itxaso Maguregui, Miren; Maria Alonso, Rosa; Maria Jimenez, Rosa. 2009. Validation of a fast liquid chromatography-UV method for the analysis of drugs used in combined cardiovascular therapy in human plasma *Journal of Chromatography B-Analytical Technologies in the Biomedical and Life Sciences*. 877-27, pp.3045-3053. ISSN 1570-0232. <https://doi.org/10.1016/j.jchromb.2009.07.018>
- 20 Artículo científico.** O. González; A. Yaldebere; X. Guruceaga; A. Ramírez-García; A. Rementería; R.M. Alonso. A novel SPE-UHPLC-DAD method for the determination of fumagillin produced by *Aspergillus fumigatus* in cell culture media *Microchemical journal*. Elsevier. 169, pp.1-7.
- 21 Capítulo de libro.** Oskar González; Rosa M. Alonso. 2019. Validation of bioanalytical chromatographic methods for the quantification of drugs in biological fluids *METHODS OF THERAPEUTIC DRUG MONITORING INCLUDING PHARMACOGENETICS*. Elsevier. 7, pp.115-134. ISBN 9780444640666.
- 22 Revisión bibliográfica.** Xabier Guruceaga; Usue Pérez-Cuesta; Ana Abad-Díaz de Cerio; Oskar González; Rosa M. Alonso; Fernando L. Hernando; Andoni Ramírez-García. (4/7). 2020. Fumagillin, a Mycotoxin of *Aspergillus fumigatus*: Biosynthesis, Biological Activities, Detection, and Applications *Toxins*. 12-1, pp.7-32. ISSN 2072-6651. <https://doi.org/10.3390/toxins12010007>

- 23 Revisión bibliográfica.** Beatriz Uribe; Oskar González; Boubakar B Ba; Karen Gaudin; Rosa M Alonso. (2/5). 2019. Chromatographic methods for echinocandin antifungal drugs determination in bioanalysis Bioanalysis. ISSN 1757-6199. <https://doi.org/10.4155/bio-2019-0045>
- 24 Revisión bibliográfica.** Gonzalez, Oskar; Ferreiros, Nerea; Blanco, Maria Encarnacion; Alonso, Rosa M.2015. Cardiovascular drug determination in bioanalysis: an update Bioanalysis. 7-18, pp.2399-2417. ISSN 1757-6180. <https://doi.org/10.4155/bio.15.163>
- 25 Revisión bibliográfica.** Gonzalez, Oskar; Encarnacion Blanco, Maria; Iriarte, Gorka; Bartolome, Luis; Itxaso Maguregui, Miren; Alonso, Rosa M.2014. Bioanalytical chromatographic method validation according to current regulations, with a special focus on the non-well defined parameters limit of quantification, robustness and matrix effect Journal of Chromatography A. 1353, pp.10-27. ISSN 0021-9673. <https://doi.org/10.1016/j.chroma.2014.03.077>

C.3. Proyectos o líneas de investigación

- 1 Proyecto.** Procesos de mejora en la estabilidad de cebos insecticidas para el control de la plaga de la avispa asiática (Vespa Velutina) (PUE21-08). Rosa M. Alonso. (Universidad del País Vasco). 13/07/2021-30/06/2023. 49.938 €.
- 2 Proyecto.** Nueva Generación de celdas para la Red digital (NUGER). RTC2019-006844-3. Jose Ignacio Lombroña. (Universidad del País Vasco). 01/01/2020-31/01/2023. 284.355,5 €.
- 3 Proyecto.** Antifungal resistance in filamentous fungi: OMICS approach. Proyectos colaborativos 2020. COLAB20/11.. Aitor Rementeria. (Universidad del País Vasco). 01/01/2021-31/12/2022. 23.760 €.
- 4 Proyecto.** Nuevos gases dieléctricos para equipos de media tensión III (GADEM III). Josu Izagirre. (Universidad del País Vasco). 27/02/2020-26/02/2022. 84.370 €.
- 5 Proyecto.** Nuevos gases dieléctricos para equipos de media tensión II (GADEM II). Josu Izagirre. (Universidad del País Vasco). 01/01/2019-31/12/2020. 70.259,5 €.
- 6 Proyecto.** Cebos insecticidas como Respuesta al Control de la Plaga de la Avispa Asiática (Vespa Velutina) (PUE 2018-07). (Universidad del País Vasco). 01/01/2018-31/12/2019. 43.900 €.
- 7 Proyecto.** Nuevos gases dieléctricos para equipos de media tensión (GADEM, proyecto ELKARTEK). (Universidad del País Vasco). 01/01/2017-31/12/2018. 74.129 €.
- 8 Proyecto.** Microencapsulación de Biocidas como Respuesta al Control de la Plaga de la Avispa Asiática (Vespa Velutina) (US16/32). Rosa Maria Alonso Rojas. (Universidad del País Vasco). 25/11/2016-25/11/2017. 11.516 €.
- 9 Proyecto.** Metabolómica y dosificación personalizada de fármacos. Aplicación en la población pediátrica mediante modelos animales. Rosa Maria Alonso Rojas. (Universidad del País Vasco). 01/01/2014-30/09/2017. 82.280 €.
- 10 Proyecto.** Metabolómica aplicada a la identificación de biomarcadores de maduración de procesos de eliminación en un modelo animal de población pediátrica (PPM 12/06). Rosa Maria Alonso Rojas. (Universidad del País Vasco). 01/01/2013-31/12/2013. 15.000 €.
- 11 Proyecto.** Nuevos avances cromatográficos aplicados al control del síndrome metabólico (CTQ2009-11690). Rosa Maria Alonso Rojas. (Universidad del País Vasco). 01/01/2010-31/12/2012. 72.600 €.
- 12 Proyecto.** Diode-array and Fluorescence Detectors coupled to Ultra High Performance Liquid Chromatography Instruments. Rosa Maria Alonso Rojas. (Universidad del País Vasco). 01/07/2008-31/12/2008. 34.297 €.

C.4. Actividades de transferencia de tecnología/conocimiento y explotación de resultados

T. Hankemeier; A.C. Dubbelman; A.C. Harms; O. González. WO 2020/1014999 - PCT/NL2019/050752. Method for matrix effect correction in quantitative mass spectrometric analysis of analytes in complex matrices Holanda. 22/05/2020. Universidad de Leiden.