

LOGROS CIENTÍFICOS: REVISTAS, CAPÍTULOS DE LIBRO Y CONGRESOS

El presente proyecto ha dado lugar a un total de 14 artículos hasta la fecha, 10 de los cuales han sido publicados en diversas revistas de alto impacto en la comunidad científica y 4 han sido recientemente enviados para su revisión. También se han escrito 6 capítulos en libros internacionales. Finalmente, los resultados del proyecto se han presentado en numerosos congresos científicos tanto internacionales como nacionales, con un total de 42 participaciones

Algunos de los materiales científicos no se relacionan directamente con la temática del proyecto, que serían las macroalgas. Del total de 14 publicaciones, 10 artículos están directamente relacionados, mientras que 4 no están relacionados directamente. En el caso de los capítulos, 3 están relacionados con el proyecto, mientras que 3 no están relacionados. Finalmente, de las 42 participaciones en congreso, solo 3 de ellas no estaban relacionadas con la temática de ejecución del proyecto aquí descrito.

En general, estos logros no vinculados directamente al proyecto se incluyen como resultado de la formación y adquisición de competencias del alumno predoctoral contratado durante el período de ejecución del mismo.

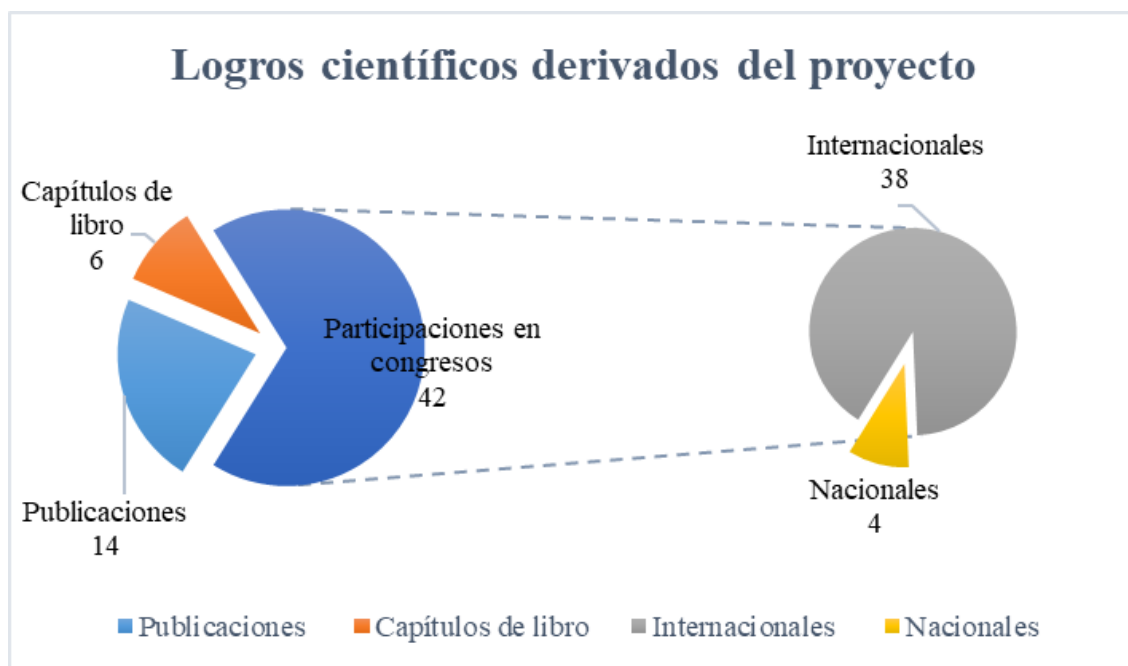


Figura 3. Resumen de los logros científicos derivados del proyecto

En los siguientes resultados científicos recogidos a lo largo de los 19 meses de duración del proyecto se ha agradecido en todo momento al proyecto, el programa, a la Xunta de Galicia y la empresa AlgaMar de la siguiente forma:

“... to Axudas Conecta Peme (Xunta de Galicia) supporting the IN852A 2018/58 NeuroFood Project and AlgaMar (www.algamar.com) for supporting the predoctoral grant for C. Lourenço-Lopes ...”

PUBLICACIONES

1. Lourenço-Lopes, C., Garcia-Oliveira, P., Carpena, M., Fraga-Corral, M., Jimenez-Lopez, C., Pereira, A. G., Prieto, M. A., Simal-Gandara, J. (2020). Scientific Approaches on Extraction, Purification and Stability for the Commercialization of Fucoxanthin Recovered from Brown Algae. *Foods*, 9(8), 1113. DOI: [10.3390/foods9081113](https://doi.org/10.3390/foods9081113)
2. Lourenço-Lopes, C., Fraga-Corral, M., Jimenez-Lopez, C., Pereira, A. G., Garcia-Oliveira, P., Carpena, M., Prieto, M. A., Simal-Gandara, J. (2020). Metabolites from Macroalgae and Its Applications in the Cosmetic Industry: A Circular Economy Approach. *Resources*, 9(9), 101. DOI: [10.3390/resources9090101](https://doi.org/10.3390/resources9090101)
3. Jiménez-López, C., Pereira, A.G., Lourenço-Lopes, C., García-Oliveira, P., Cassani, L., Fraga-Corral, M., Barros, L., Prieto, M.A., Ferreira, I.C.F.R., Simal-Gándara, J., (2021). Main bioactive phenolic compounds in marine algae and their mechanisms of action supporting potential health benefits. *Food Chem.* 341, 128262. DOI: [10.1016/j.foodchem.2020.128262](https://doi.org/10.1016/j.foodchem.2020.128262)
4. Cassani, L., Gomez-Zavaglia, A., Jimenez-Lopez, C., Lourenço-Lopes, C., Prieto, M. A., Simal-Gandara, J. (2020). Seaweed-based natural ingredients: Stability of phlorotannins during extraction, storage, passage through the gastrointestinal tract and potential incorporation into functional foods. *Food Research International*, 109676. DOI: [10.1016/j.foodres.2020.109676](https://doi.org/10.1016/j.foodres.2020.109676)
5. Silva, A., Silva, S. A., Lourenço-Lopes, C., Jimenez-Lopez, C., Carpena, M., Gullón, P., Fraga-Corral, M., Domingues, V. F., Barroso, M. F., Simal-Gandara, J., Prieto, M. A. (2020). Antibacterial Use of Macroalgae Compounds against Foodborne Pathogens. *Antibiotics*, 9(10), 712. DOI: [10.3390/antibiotics9100712](https://doi.org/10.3390/antibiotics9100712)
6. Silva, A., Silva, S. A., Carpena, M., Garcia-Oliveira, P., Gullón, P., Barroso, M. F., Prieto, M. A., Simal-Gandara, J. (2020). Macroalgae as a Source of Valuable Antimicrobial Compounds: Extraction and Applications. *Antibiotics*, 9(10), 642. DOI: [10.3390/antibiotics9100642](https://doi.org/10.3390/antibiotics9100642)
7. Pereira, A. G., Jimenez-Lopez, C., Fraga, M., Lourenço-Lopes, C., García-Oliveira, P., Lorenzo, J. M., Perez-Lamela, C., Prieto, M. A., Simal-Gandara, J. (2020). Extraction, Properties, and Applications of Bioactive Compounds Obtained from Macroalgae. *Current pharmaceutical design*, 26(16), 1929-1950. DOI: [10.2174/1381612826666200403172206](https://doi.org/10.2174/1381612826666200403172206)
8. Fraga-Corral, M., García-Oliveira, P., Pereira, A. G., Lourenço-Lopes, C., Jimenez-Lopez, C., Prieto, M. A., Simal-Gandara, J. (2020). Technological application of tannin-based extracts. *Molecules*, 25(3), 614. DOI: [10.3390/molecules25030614](https://doi.org/10.3390/molecules25030614)
9. Jimenez-Lopez, C., Fraga-Corral, M., Carpena, M., García-Oliveira, P., Echave, J., Pereira, A. G., Lourenço-Lopes, C., Prieto, M. A., Simal-Gandara, J. (2020). Agriculture waste valorisation as a source of antioxidant phenolic compounds within a circular and sustainable bioeconomy. *Food & Function*, 11(6), 4853-4877. DOI: [0.1039/D0FO00937G](https://doi.org/10.1039/D0FO00937G)
10. García- Oliveira, P., Lourenço-Lopes, C., Jiménez-López, C., Pereira, A.G, Fraga, M. Prieto, M. A, Simal-Gándara, J., (2020). Scientific Basis for the Industrialization of Traditionally Used Plants of the Rosaceae Family. *Food Chemistry*, 330, 127197. DOI: [10.1016/j.foodchem.2020.127197](https://doi.org/10.1016/j.foodchem.2020.127197)
11. Lourenço-Lopes, C., Fraga-Corral, M., Jimenez-Lopez, C., Carpena, M., Pereira, A. G., Garcia-Oliveira, P., Prieto, M. A., Simal-Gandara, J. (2021). Biological action mechanisms of fucoxanthin extracted from algae for application in food and cosmetic industries. *Trends in Food Science & Technology*. (*In press*)
12. Garcia-Oliveira, P., Carrera-Casais, A., Pereira, E., Caleja, C., Calhelha, R. C., Sokovic, M., Nuñez-Estevez, B., Simal-Gandara, J., Prieto, M. A., Barros, L., Ferreira, I. C. F. R. Macroalgae as an alternative source of nutrients and compounds with bioactive potential. (*Submitted*)
13. Carpena, M., Caleja, C., Pereira, E., Dias, M. I., Pereira, C., Ciric, A, Sokovic, M., Simal-Gandara, J., Ferreira, I. C. F. R., Prieto, M. A., Barros, L. Red seaweeds as a source of nutrients and bioactive compounds. (*Submitted*).

14. Pereira, A. G., Fraga-Corral, M., Garcia-Oliveira, P., Lourenço-Lopes, C., Carpena, M., Simal-Gandara, J. & Prieto, M. A. The use of invasive algae species in aquaculture feed systems. Spain as case-study (*Submitted*)
15. Carpena, M., Garcia-Oliveira, P., Lourenso-Lopes, C., Pereira, A. G., Simal-Gandara, J., Prieto, M. A. Bioactivities and Bi potential of compounds extracted from red edible seaweeds (*Submitted*).

CAPÍTULOS DE LIBRO

1. Garcia-Oliveira, P., Jiménez-López, C., Pereira, A. G., Lourenço-Lopes, C., Carpena, M., Fraga, M., Prieto, M. A., Simal-Gandara, J. *Sargassum muticum*: estudio para su valorización industrial en Galicia. In: Foro Iberoam. Rec. Mar. Acui. IX (2019).
2. Lourenço-Lopes, C., Cassani, L., Jiménez-López, C., Pereira, A. G., García-Oliveira, P., Carpena, M., Fraga, M., Prieto, M. A., Simal-Gándara, J. Neuroprotective effect of Fucoxanthin extracted from Marine Macroalgae. In: Foro Iberoam. Rec. Mar. Acui. IX (2019).
3. Jiménez-López, C., Pereira, A. G., García-Oliveira, P., Lourenço-Lopes, C., Carpena, M., Fraga-Corral, M., Vázquez, J.A., Prieto, M.A., Simal-Gándara, J. Optimization by surface response methodology of the combined effect of temperature and initial sugar concentration on the kinetic growth behavior of *Saccharomyces fibuligera* and biomass, cell-wall and cell-wall fractions production in mussel process wastewaters culture media. In: Foro Iberoam. Rec. Mar. Acui. IX (2019).
4. Garcia-Oliveira, P., Carreira-Casais, A., Caleja, C., Pereira, E., Calhella, R. C., Sokovic, M., Simal-Gandara, J., Ferreira, I. C. F. R., Prieto, M. A., Barros, L. Macroalgae as an Alternative Source of Nutrients and Compounds with Bioactive Potential (2020).
5. Pereira, A.G., Fraga, M., Garcia-Oliveira, P., Jimenez-Lopez, C., Lourenço-Lopes, C., Barros, L., Ferreira, I. C. F. R., Prieto, M. A., J. Simal-Gandara (2020). Identification, quantification, and method validation of anthocyanins. In: Anthocyanins: Antioxidant Properties, Sources and Health Benefits, ISBN 978-1-53617-816-6, published by Nova Science Publishers, Inc.
6. Pereira, A.G., Fraga, M., Garcia-Oliveira, P., Carpena, M., Jimenez-Lopez, C., Lourenço-Lopes, C., Barros, L., Ferreira, I. C. F. R., Prieto, M. A., Simal-Gandara, J. (2020). Aroma compounds in wine., in: Winemaking - Stabilization, Aging Chemistry and Biochemistry (June 2020), ISBN 978-1-83962-576-3, published by IntechOpen.

CONGRESSOS NACIONALES E INTERNACIONALES

Congreso Foro Iberoamericano de Los Recursos Marinos y La Acuicultura (FIRMA)

1. García-Oliveira, P., Carreira-Casais, A., Jiménez-López, C., Pereira, A.G., Lourenço-Lopes, C., Carpena, M., Fraga, M., Prieto, M.A., Simal-Gandara, J. *Sargassum muticum*: in search of a solution, in: Congreso Foro Iberoamericano de Los Recursos Marinos y La Acuicultura (FIRMA), 31/07-02/08/2019 in Portoviejo (Ecuador).
2. Lourenço-Lopes, C., Pereira, A.G., Oliveira, P.G., Jiménez-López, C., Carpena, M., Fraga, M., Prieto, M.A., Simal-Gandara, J. Neuroprotective effect of Fucoxanthin extracted from Marine Macroalgae, in: Congreso Foro Iberoamericano de Los Recursos Marinos y La Acuicultura (FIRMA), 31/07-02/08/2019 in Portoviejo (Ecuador).
3. Pereira, A.G., García-Oliveira, P., Jiménez-López, C., Lourenço-Lopes, C., Prieto, M.A., Simal-Gandara, J. Extraction of phenolic compounds by high hydrostatic pressure from eight edible algae species from the North-West coast of Spain: Process modelling and optimization, in: Congreso Foro Iberoamericano de Los Recursos Marinos y La Acuicultura (FIRMA), 31/07-02/08/2019 in Portoviejo (Ecuador).
4. Jiménez-López, C., Pereira, A.G., García-Oliveira, P., Lourenço-Lopes, C., Carpena, M., Fraga, M., Vázquez, J.A., Prieto, M.A., Simal-Gándara, J. Optimization by surface response methodology of the combined effect of temperature and initial sugar concentration on the kinetic

growth behavior of *Saccharomyces fibuligera* and biomass, cell-wall and cell-wall fractions production in mussel process wastewaters culture media. Foro Iberoamericano de los Recursos Marinos y de la Acuicultura (FIRMA), 31/07-02/08/2019 in Portoviejo (Ecuador).

Iberian Congress of Phenolic Compounds (Iberphenol)

5. Jiménez-López, C., Lourenço-Lopes, C., Pereira, A.G., García-Oliveira, P., Portela, C., Barros, L., Prieto, M.A., Ferreira, I.C.F.R., Simal-Gándara, J. Phenolic compounds extraction from Algae: Properties and Bioactivities, in: Iberian Congress of Phenolic Compounds (Iberphenol), 02/10/2019 in Ourense (Spain).
6. Lourenço-Lopes, C., Jiménez-López, C., Pereira, A.G., García-Oliveira, P., Prieto, M.A., Simal-Gándara, J. Fucoxanthin extraction from Algae - Properties and Bioactivities, in: Iberian Congress of Phenolic Compounds (Iberphenol), 02/10/2019 in Ourense (Spain).
7. Pereira, A.G., García-Oliveira, P., Jiménez-López, C., Lourenço-Lopes, C., Prieto, M.A., Simal-Gándara, J. Microalgae as raw material for the production of pigments, in: Iberian Congress of Phenolic Compounds (Iberphenol), 02/10/2019 in Ourense (Spain).
8. García-Oliveira, P. Lourenço-Lopes, C., Jiménez-López, C., Pereira, A.G, Rita, I., Prieto, M. A.; Simal-Gándara, J. Preserving the ancient knowledge: a review. Iberian Congress of Phenolic Compounds (Iberphenol), 02/10/2019 in Ourense (Spain).

2nd Food Chemistry Conference: Shaping the Future of Food Quality, Safety, Nutrition and Health

9. Jiménez-López, C., Pereira, A.G., Lourenço-Lopes, C., García-Oliveira, P., Barros, L., Prieto, M.A., Ferreira, I.C.F.R., Simal-Gándara, J. Optimization of the extraction of phenolic compounds from eight edible algae species from the Galician coast using response surface methodology, in: 2nd Food Chemistry Conference: Shaping the Future of Food Quality, Safety, Nutrition and Health, 17-19/09/2019 in Seville (Spain).

57th European High Pressure Research Group Meeting on High Pressure Science and Technology (EHPRG2019)

10. Lamela, C.P., Jiménez-López, C., Pereira, A.G., Lourenço-Lopes, C., Barros, L., Prieto, M.A., Ferreira, I.C.F.R., Simal-Gándara, J. Extraction of phenolic compounds by high hydrostatic pressure from eight edible algae species from the North-West coast of Spain: Process modelling and optimization, in: 57th European High Pressure Research Group Meeting on High Pressure Science and Technology (EHPRG2019), 02-06/09/2019 in Prague (Czech Republic).

XXV Encontro Galego-Portugues de Química

11. Pereira, A.G., Carreira, A., Jiménez-López, C., Lourenço-Lopes, C., Barros, L., Prieto, M.A., Ferreira, I.C.F.R., Simal-Gándara, J. Las algas como nueva materia prima para la obtención de pigmentos, in: XXV Encontro Galego-Portugues de Química, 20-22/11/2019 in Santiago de Compostela (Spain).
12. García-Oliveira, P., Carreria-Casais, A., Pereira, E., Caleja, C., Lourenço-Lopes, C., Barros, L., Pérez-Juste, J., Prieto, M.A, Simal-Gándara, J., Ferreira, I. C. F. R. The use of seaweed in daily diets as a source of nutrients. XXV Encontro Galego-Portugues de Química, 20-22/11/2019 in Santiago de Compostela (Spain).
13. Lourenço-Lopes, C., García-Oliveira, P., Jiménez-López, C., Pereira, A.G., Prieto, M.A., Simal-Gándara, J. Caracterização de Pigmentos de Algas da Galiza. XXV Encontro Galego-Portugues de Química, 20-22/11/2019 in Santiago de Compostela (Spain).
14. Jiménez-López, C., Lourenço-Lopes, C., García-Oliveira, P., Pereira, A.G., Prieto, M.A., Barros L., Ferreira, I.C.F.R., Simal-Gándara, J. Optimización de la extracción de compuestos fenólicos a partir de 8 especies de algas comestibles de las costas de Galicia utilizando la metodología de superficie respuesta. XXV Encontro Galego-Portugues de Química, 20-22/11/2019 in Santiago de Compostela (Spain).

15. Jiménez-López, C., Lourenço-Lopes, C., García-Oliveira, P., Pereira, A.G., Prieto, M.A., Barros L., Ferreira, I.C.F.R., Simal-Gándara, J. Modelling and optimization of the extraction process of pigments from seaweed from the Galician coast. XXV Encontro Galego-Portugues de Química, 20-22/11/2019 in Santiago de Compostela (Spain).

I Congreso de la juventud investigadora en producción primaria sostenible y seguridad y calidad alimentaria (JIPAS 2019)

16. Pereira, A.G., García-Oliveira, P., Jiménez-López, C., Lourenço-Lopes, C., Prieto, M.A., Simal-Gandara, J. Bioactive compounds from algae: a step towards safe and healthy food, in: I Congreso de la juventud investigadora en producción primaria sostenible y seguridad y calidad alimentaria (JIPAS 2019), 27-29/11/2019 in Lugo (Spain).
17. García-Oliveira, P., Pereira, E., Caleja, C., Barros, L, Prieto, M.A, Simal-Gándara, J., Ferreira, I. C. F. R. Las algas como prometedora fuente de nutrientes para la dieta. I Congreso de La Juventud Investigadora en Producción Primaria Sostenible y Seguridad y Calidad Alimentaria (JIPAS), 27-29/11/2019 in Lugo (Spain).
18. Lourenço-Lopes, C., Jiménez-López, C., Pereira, A.G., García-Oliveira, P., Prieto, M.A., Simal-Gándara, J. Antiobesity activity of Fucoxanthin extracted from Marine Macroalgae. I Congreso de La Juventud Investigadora en Producción Primaria Sostenible y Seguridad y Calidad Alimentaria (JIPAS), 27-29/11/2019 in Lugo (Spain).
19. Jiménez-López, C., Pereira, A.G., Lourenço-Lopes, C., García-Oliveira, P., Prieto, M.A., Barros L., Ferreira, I.C.F.R., Simal-Gándara, J. Optimización de la extracción de compuestos fenólicos a partir de algas de Galicia. I Congreso de La Juventud Investigadora en Producción Primaria Sostenible y Seguridad y Calidad Alimentaria (JIPAS), 27-29/11/2019 in Lugo (Spain).

EuroFoodChem XX Conference

20. Pereira, A.G., Jiménez-López, C., Lourenço-Lopes, C., Barros, L., Prieto, M.A., Ferreira, I.C.F.R., Simal-Gandara, J. Extraction of phenolic compounds by high hydrostatic pressure from eight edible algae species from the North-West coast of Spain: Process modelling and optimization, in: EuroFoodChem XX Conference, 17-19/06/2019 in Porto (Portugal).

IberPhenol - International Conference

21. Pereira, A.G., Fraga, M., Oliveira, P.G., Jiménez-López, C., Lourenço-Lopes, C., Prieto, M.A., Simal-Gandara, J. Design of new functional foods based on new additives obtained from algae by treatments with high hydrostatic pressures, in IberPhenol International Conference, 26-27/03/2020 in Coimbra (Portugal).
22. Carreira- Casais, A., García-Oliveira, P., Carpena. M., Echave, J., Lourenço-Lopes, C.; Jiménez-López, C.; Pereira, A. G.; Fraga, M., Prieto, M. A.; Simal-Gándara, J. Ultrasound Assisted Extraction of Fucoxanthin in invasive algae in Galicia, in IberPhenol International Conference, 26-27/03/2020 in Coimbra (Portugal).
23. Cassani, L., Lourenço-Lopes, C., Cecilia Jiménez-López, C., Prieto, M. A., Gómez-Zavaglia, A., Simal-Gándara, J. Optimum microwave processing approach for the extraction of polyphenols with antioxidant activity from *Fucus spiralis*, in IberPhenol International Conference, 26-27/03/2020 in Coimbra (Portugal).
24. Lourenço-Lopes, C., Jimenez-Lopez, C., Cassani, L., García-Oliveira, P., Pereira, A.G., Fraga, M., Gomez-Zavaglia, A., Prieto, M.A., Simal-Gándara, J. Optimization of microwave-assisted extraction conditions for antioxidant compounds from *Undaria pinnatifida* using response surface methodology, in IberPhenol International Conference, 26-27/03/2020 in Coimbra (Portugal).
25. Jiménez-López, C., Lourenço-Lopes, C., Pereira, A.G., García-Oliveira, P., Fraga, M., Barros, Lillian, Prieto, M.A., Ferreira, Isabel C. F. R, Simal-Gándara, J. Heat assisted extraction: a new approach for an old-fashioned technique, in IberPhenol International Conference, 26-27/03/2020 in Coimbra (Portugal).

26. Carpena, M., García-Oliveira, P., Pereira, A. G., Jiménez-López, C.; Lourenço-Lopes, C., Carreira- Casais, A., Echave, J, Fraga, M., Prieto, M. A.; Simal-Gándara, J. Heat assisted extraction vs. High pressure assisted extraction: Optimization of the extraction of three red algae (*Chondrus crispus*, *Mastocarpus stellatus* and *Gigartina pistillata*), in IberPhenol International Conference, 26-27/03/2020 in Coimbra (Portugal).

58th European High-Pressure Research Group International Conference

27. García-Oliveira, P., Pereira, A. G., Carpena, M., Jiménez-López, C., Lourenço-Lopes, C., Carreira- Casais, A., Echave, J., Fraga-Corral, M., Perez-Lamela, C., Prieto, M. A, Simal-Gandara, J. Green algae as a source of pigments: Optimization of the extraction trough high pressure assisted extraction, in 58th European High Pressure Research Group International Conference, 6-11/09/2020, Puerto de la Cruz (Tenerife, España).
28. Pereira, A. G., Carpena, M., García-Oliveira, P., Jiménez-López, C., Lourenço-Lopes, C., Carreira- Casais, A., Echave, J., Fraga-Corral, M., Barros, L., Ferreira, I. C. F. R., Perez-Lamela, C., Prieto, M. A, Simal-Gandara, J. Enriched extracts in fucoxanthin obtained from brown algae with high pressure technology to formulate healthier food products. High Hydrostatic Pressure, in 58th European High-Pressure Research Group International Conference, 6-11/09/2020, Puerto de la Cruz (Tenerife, España).
29. Carpena, M., García-Oliveira, P., Fraga-Corral, M., Carreira-Casais A., Caleja, C., Pereira, C., Calhelha, R. C., Sokovic, M., Barros, L., Ferreira, I. C. F. R., Prieto, M. A, Simal-Gandara, J. Valorization of edible red seaweeds by the recovery of bioactive compounds optimized in traditional and novel extraction techniques. High Hydrostatic Pressure, in 58th European High-Pressure Research Group International Conference, 6-11/09/2020, Puerto de la Cruz (Tenerife, España).
30. Carpena, M., García-Oliveira, P., Fraga-Corral, M., Carreira-Casais A., Caleja, C., Pereira, C., Calhelha, R. C., Sokovic, M., Barros, L., Ferreira, I. C. F. R., Prieto, M. A, Simal-Gandara, J. Obtaining healthier and safer food additives from red algae: comparison of high pressure and heat assisted extraction. High Hydrostatic Pressure, in 58th European High-Pressure Research Group International Conference, 6-11/09/2020, Puerto de la Cruz (Tenerife, España).

4th International Symposium on Phytochemicals in Medicine and Foods (ISPMF 2020)

31. García-Oliveira, P., Carpena, M., Pereira, A. G., Jiménez-López, C., Lourenço-Lopes, C., Fraga-Corral, M., Prieto, M. A., Simal-Gandara, J. Optimization of the high pressure assisted extraction of phenolic compounds from green marine macroalgae. In: 4th International Symposium on Phytochemicals in Medicine and Foods (ISPMF 2020) Nov.30-Dec.04, 2020 (Xi'an, China).
32. Carreira-Casais, A., García-Oliveira, P., Carpena, M., Echave, J., Lourenço-Lopes, C., Jiménez-López, C., Pereira, A. G., Fraga, M., Otero, P., Gullón, P., Prieto, M. A., Simal-Gandara, J. *Codium tomentosum* as a promising source of fucoxanthin: exploring the suitability of ultrasound assisted extraction. In: 4th International Symposium on Phytochemicals in Medicine and Foods (ISPMF 2020) Nov.30-Dec.04, 2020 (Xi'an, China).
33. Carpena, M., García-Oliveira, P., Pereira, A. G., Jiménez-López, C., Lourenço-Lopes, C., Carreira-Casais, A., Fraga, M., Barros, L., Ferreira, I. C. F. R., Prieto, M. A., Simal-Gandara, J. Phenolics and pigments from red algae: extraction techniques and antioxidant potential. In: 4th International Symposium on Phytochemicals in Medicine and Foods (ISPMF 2020) Nov.30-Dec.04, 2020 (Xi'an, China).

1st International Electronic Conference on Food Science and Functional Foods

34. Jimenez-Lopez, C., Lourenço-Lopes, C., Garcia-Oliveira, P., Pereira, A. G., Carreira-Casais, A., Carpena, M., Echave, J., Chamorro, F., Silva, A., Fraga, M., Prieto, M. A., Simal-Gandara, J. Kinetic study of the extraction of pigment fucoxanthin from brown alga *Undaria pinnatifida* using acetone as solvent. 1st International Electronic Conference on Food Science and Functional Foods. 10 - 25/11/2020. Online.

35. Pereira, A. G., Carpena, M., García-Oliveira, P., Jiménez-López, C., Lourenço-Lopes, C., Carreira-Casais, A., Echave, J., Otero, P., Fraga, M., Gullón, P., Barros, L., Ferreira, I. C. F. R., Prieto, M. A., Simal-Gandara, J. Recovery of phenolic compounds from edible algae using high hydrostatic pressure: an optimization approach. 1st International Electronic Conference on Food Science and Functional Foods. 10 - 25/11/2020. Online.
36. Carpena, M., Caleja, C., García-Oliveira, P., Pereira, C., Sokovic, M., Ferreira, I. C. F. R., Simal-Gandara, J., Barros, L., Prieto, M. A. Red algae as source of nutrients with antioxidant and antimicrobial potential. 1st International Electronic Conference on Food Science and Functional Foods. 10 - 25/11/2020. Online.
37. Garcia-Oliveira, P., Carreira-Casais, A., Caleja, C., Pereira, E., Calhelha, R. C., Sokovic, M. Simal-Gandara, J., Ferreira, I. C. F. R., Prieto, M. A., Barros, L.. Macroalgae as an alternative source of nutrients and compounds with bioactive potential. 1st International Electronic Conference on Food Science and Functional Foods. 10 - 25/11/2020. Online.
38. A Carreira-Casais, A., García-Oliveira, P., Carpena, M., Echave, J., Lourenço-Lopes, C., Jiménez-López, C., Pereira, A. G., Fraga, M., Otero, P., Gullón, P., Prieto, M. A., Simal-Gandara, J. *Ascophyllum nodosum* as renewable source of fucoxanthin using ultrasound assisted extraction. 1st International Electronic Conference on Food Science and Functional Foods. 10 - 25/11/2020. Online.

7th Portuguese Young Chemists (PYCheM)

39. García-Oliveira, P., Carreria-Casais, A., Pereira, E., Caleja, C., Lourenço-Lopes, C., Barros, L., Pérez-Juste, J., Prieto, M.A, Simal-Gándara, J., Ferreira, I. C. F. R. Evaluation of macroalgae as a source of nutrients for nutraceutical foods, in 7th Portuguese Young Chemists (PYCheM), 2021 in Bragança (Portugal).
40. Carreira-Casais, A., García-Oliveira, P., Carpena, M., Echave, J., Lourenço-Lopes, C., Jiménez-López, C., Pereira, A. G., Cassani, L., Fraga, M., Gómez-Zavaglia, A., Prieto, M. A., Simal-Gándara, J. Ultrasound Assisted Extraction of fucoxanthin in *Ascophyllum nodosum* alga, in 7th Portuguese Young Chemists (PyCheM), 2021 in Bragança (Portugal).
41. Lourenço-Lopes, C., Jimenez-Lopez, C., García-Oliveira, P., Pereira, A.G., Carreira-Casais, A., Carpena, M., Echave, J., Cassani, L., Fraga, M., Prieto, M.A., Simal-Gándara, J. Kinetic behavior of the extraction of fucoxanthin under different temperatures and ethanol concentrations from *Undaria pinnatifida*, in 7th Portuguese Young Chemists (PyCheM), 2021 in Bragança (Portugal).
42. Carpena, M., Caleja, C., García-Oliveira, P., Pereira, C., Prieto, M.A., Simal-Gándara, J., Barros, L., Ferreira, I.C.F.R. Red algae as source of nutrients with antioxidant potential, in 7th Portuguese Young Chemists (PyCheM), 2021 in Bragança (Portugal).