



Álvaro
Martínez Camarena

DATE OF BIRTH:
3 Jun 1992

CONTACT

Nationality: Spanish

Gender: Male



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46980 Paterna, Spain



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WORK EXPERIENCE

1 SEP 2020 - CURRENT - Valencia - Paris, Spain

Postdoctoral researcher

Generalitat Valenciana - University of Valencia - University Paris-Saclay

16 SEP 2015 - 15 SEP 2019 - Valencia, Spain

Predoctoral researcher

Ministry of Science and Education - University of Valencia

EDUCATION AND TRAINING

1 SEP 2010 - 18 JUL 2014

Degree in Chemistry

University of Valencia

Extraordinary Career Award | EQF level 6 | 240

1 SEP 2014 - 31 JUL 2016

Master in Nanoscience and Nanotechnology

University of Valencia

EQF level 7 | 60

1 SEP 2018 - 31 AUG 2019

Master in Journalism and Scientific Communication

National Distance Education University (UNED)

EQF level 7 | 60

16 SEP 2015 - 15 SEP 2019

Doctorate in Nanoscience and Nanotechnology

University of Valencia

Summa Cum Laude and International Mention | EQF level 8

LANGUAGE SKILLS

MOTHER TONGUE(S): Spanish | Catalan

English

Listening
C1

Reading
C1

Spoken
production
B2

Spoken
interaction
B2

Writing
B2

Italian

Listening
B2

Reading
B2

Spoken
production
B2

Spoken
interaction
B2

Writing
B2

HONOURS AND AWARDS

2014

Exceptional Career Award – University of Valencia, Faculty of Chemistry

2015

Academic Excellence Award – Generalitat Valenciana, Valencia Regional Government

2015

FPU Grant – Spanish Ministry of Science, Innovation and Universities

2017

2nd Best Oral Presentation – II Workshop on Chemistry of Group 11 Elements

2019

Fernando Pulidori Award – European Group of Thermodynamics and Coordination Chemistry
Prize awarded to a young researcher in thermodynamics

2020

XXVI European Award for the Dissemination of Science – “Ciutat d’Alzira”
Literary Awards
Prize awarded for his book ‘The common and the extraordinary. Oxygen: an intimate history of an ordinary molecule’

PUBLICATIONS

- **[1] Oxidative stress protection by manganese complexes of tail-tied azascorpiand ligands.**
2016 <http://dx.doi.org/10.1016/j.jinorgbio.2016.04.020>
Journal of Inorganic Biochemistry (2016), 163, 230-239.
Authors: J. González-García, *Á. Martínez-Camarena*, B. Verdejo, M. Paz Clares, C. Soriano, E. García-España, H. R. Jiménez, A. Doménech-Carbó, R. Tejero, E. Calvo, L. Briansó-Llort, C. Serena, S. Trefler & A. García-España.
- **[2] Synthesis, characterization and Cu²⁺ coordination studies of a 3-hydroxy-4-pyridinone aza scorpiand derivate.**
2016 <http://dx.doi.org/10.1021/acs.inorgchem.6b01006>
Inorganic Chemistry (2016), 55, 7564-7575.
Authors: L. M. López-Martínez, J. Pitarch-Jarque, *Á. Martínez-Camarena*, E. García-España, R. Tejero, H. Santacruz-Ortega, R. Navarro, R. R. Sotelo-Mundo, M. A. Leyva-Peralta, A. Doménech-Carbo & B. Verdejo.
- **[3] Methylation as an effective way to generate SOD-activity in copper complexes of scorpiand- like azamacrocyclic receptors.**
2018 <http://dx.doi.org/10.1016/j.ica.2017.08.044>
Inorganica Chimica Acta (2018), 472, 139-148.
Authors: A. Neboř-Guinota, A. Liberato, M. A. Máñez, M. Paz Clares, A. Doménech, J. Pitarch-Jarque, *Á. Martínez-Camarena*, M. G. Basallote & E. García-España.
- **[4] Enhancement of SOD activity in boehmite supported nanoreceptors.**
2018 <http://dx.doi.org/10.1039/C8CC01599F>
Chemical Communications (2018), 54, 3871-3874.
Authors: *Á. Martínez-Camarena*, E. Delgado-Pinar, C. Soriano, J. Alarcón, J. M. Llinares, R. Tejero & E. García-España.
- **[5] Coordination Chemistry of Cu²⁺ Complexes of Small N-Alkylated Tetra-azacyclophanes with SOD Activity.**
2018 <http://dx.doi.org/10.1021/acs.inorgchem.8b01492>
Inorganic Chemistry (2018), 57, 10961-10973.
Authors: *Á. Martínez-Camarena*, A. Liberato, E. Delgado-Pinar, A. G. Algarra, J. Pitarch-Jarque, J. M. Llinares, M. Angeles Mañez, A. Domenech-Carbo, M. G. Basallote & E. García-España.
- **[6] Acid-base behaviour and binding to double stranded DNA/RNA of benzo[g]phthalazine-based ligands.**
2019 <http://dx.doi.org/10.1039/C8NJ05039B>
New Journal of Chemistry (2019), 43, 700-708.
Authors: E. Carbonell, *Á. Martínez-Camarena*, C. Galiana-Rosello, M. Inclán, R. Tejero, M. J. R. Yunta, P. Navarro, F. Gomez-Contreras, A. M. Sanz, L. Campayo, M. C. Cano, E. García-España & J. González-García.
- **[7] Stabilization of Supramolecular Networks of Polyiodides with Protonated Small Tetra-azacyclophanes.**
2019 <http://dx.doi.org/10.3390/inorganics7040048>
Inorganics (2019), 7, 48.
Authors: M. Savastano, *Á. Martínez-Camarena*, C. Bazzicalupi, E. Delgado-Pinar, J. M. Llinares, P. Mariani, B. Verdejo, Enrique García-España & A. Bianchi.
- **[8] A step forward in the development of superoxide dismutase mimetic nanozymes: the effect of the charge of the surface on antioxidant activity.**
2019 <http://dx.doi.org/10.1039/c9ra08992f>
RSC Advances (2019), 9, 41549-41560.

Authors: *Á. Martínez-Camarena*, J. M. Llinares, A. Domenech-Carbó, J. Alarcón & E. García-España.

- **[9] Development of Polyamine-Substituted Triphenylamine Ligands with High Affinity and Selectivity for G- Quadruplex DNA.**
2020 <http://dx.doi.org/10.1002/cbic.201900678>
ChemBioChem (2020), 21, 1-12.
Authors: I. Pont, *Á. Martínez-Camarena*, C. Galiana-Roselló, R. Tejero, M. T. Albelda, J. González-García, R. Vilar & E. García-España.
- **[10] Towards a Rational Design of Polyamine-based Zinc Chelating Agents for Cancer Therapies.**
2020 <http://dx.doi.org/10.1021/acs.jmedchem.9b01554>
Journal of Medicinal Chemistry (2020), 63, 1199-1215.
Authors: C. Galiana-Roselló, C. Aceves-Luquero, J. González, *Á. Martínez-Camarena*, R. Villalonga, S. Fernández de Mattos, C. Soriano, J. Llinares, E. García-España, P. Villalonga & M. E. González-Rosende.
- **[11] Synthesis and study of SOD mimetics: from aza-macrocyclic complexes to nano-structured systems.**
2020 <http://dx.medra.org/10.17374/CI.2020.102.1.58>
La Chimica e L'industria (2020), 1, 58-61
Author: *Á. Martínez-Camarena*.
- **[12] Unveiling the reaction mechanism of novel copper N-alkylated tetra-azacyclophanes with outstanding superoxide dismutase activity**
2020 <http://dx.doi.org/10.1039/DOCC01926G>
Chemical Communications (2020), 56, 7511-7514.
Authors: *Á. Martínez-Camarena*, P. A. Sánchez-Murcia, S. Blasco, L. Gonzalez & E. García-España.
- **[13] Inhibitory effect of aza-macrocyclic ligands on polyphenol oxidase in model and food systems.**
2020 <http://dx.doi.org/10.1021/acs.jafc.0c02407>
Journal of Agricultural and Food Chemistry (2020), 68, 7964-7973.
Authors: S. Muñoz-Pina, J. V. Ros Lis, E. Delgado-Pinar, *Á. Martínez-Camarena*, B. Verdejo, E. García-España, A. Argüelles & A. M. Andrès Grau.
- **[14] Stabilisation of Exotic Tribromide (Br₃⁻) Anions via Supramolecular Interaction with A Tosylated Macrocyclic Pyridinophane. A Serendipitous Case**
2020 <http://dx.doi.org/10.3390/molecules25143155>
Molecules (2020), 25, 3155.
Authors: *Á. Martínez-Camarena*, M. Savastano, C. Bazzicalupi, A. Bianchi & E. García-España.
- **[15] Stabilization of polyiodide networks with Cu(II)-complexes of small methylated polyazacyclophanes: shifting directional control from H-bonds to I...I interactions**
2020 <http://dx.doi.org/10.1039/DOQI00912A>
Inorganic Chemistry Frontiers (2020), 7, 4239-4255
Authors: *Á. Martínez-Camarena*, M. Savastano, J. M. Llinares, B. Verdejo, A. Bianchi, E. García-España & C. Bazzicalupi.

CONFERENCES AND SEMINARS

2014 - IV Jornadas Científicas Consolider CSD2010-00065

Citotoxicity tests against intra and extra-cellular forms of Leishmanias pp and mammalian cells

Location: Palma de Mallorca, Spain

Authors: I. Ramirez-Macias, J. M. Llinares, K. Urbanová, R. Cañas-Ruiz, C. Galiana, G. Chaves-Lemaur, A. Martínez, C. Soriano, M. Sanchez-Perez, M. Sanchez-Moreno, E. García-España

2014 - IV Jornadas Científicas Consolider CSD2010-00065

Progress of Anticancer and Antiparasitic Activity of Polyamines-polyamides ligands

Location: Palma de Mallorca, Spain

Authors: C. Galiana-Roselló, J. Gonzalez, A. Martínez-Camarena, E. González-Rosende, M. A. Dea-Ayuele, C. Soriano, E. García-España, J. M. Llinares

2014 - IV Jornadas Científicas Consolider CSD2010-00065

Acid-Based Behaviour and metal coordination of antiproliferative polyamines

Location: Palma de Mallorca, Spain

Authors: C. Galiana-Roselló, J. Gonzalez, A. Martínez-Camarena, C. Aceves-Luquero, G. Ramis, J. M. Llinares, S. Fernándezde Mattos, P. Villalonga, C. Soriano, E. González-Rosende, E. García-España

2015 - XVI Escuela Nacional de Materiales Moleculares

Estudios de dinámica molecular sobre errores de DNA

Location: Santa Pola, Spain

Authors: Á. Martínez-Camarena, A. Nebot, R. Tejero, J. M. Llinares, E. García-España

2015 - V Jornadas Científicas Consolider CSD2010-00065

Mismatch targeting with azascorpiand ligands

Location: Granada, Spain

Authors: Á. Martínez-Camarena, A. Nebot, J. González, M. Paz Clares, R. Tejero, E. García-España

2015 - 8th European School on Molecular Nanoscience

Mismatch targeting with aza-scorpiand ligands

Location: Paris, France

Authors: Á. Martínez-Camarena, A. Nebot, J. Gonzalez, M. Paz Clares, R. Tejero, J. M. Llinares, E. García-España

2016 - VII Reunión SUPRAMED Consolider 2010-00065

Complejos azamacrocíclicos binucleares miméticos de actividad SOD

Location: Valencia, Spain

Author: A. Martínez-Camarena

2017 - II Workshop on Chemistry of Group 11 Elements

Synthesis and study of aza-macrocyclic superoxide dismutase mimetics

Location: Barcelona, Spain

Authors: A. Martínez-Camarena; E. Delgado-Pinar; R. Tejero; E. García-España

- **DNA interaction studies of new bis-anthracene polyaza macrocyclic derivative**
Location: El Escorial, Spain
Authors: L. Guijarro, M. Inclan, B. Verdejo, A. Martínez, E. García-España
2017 - International Symposia on Metal Complexes (ISMEC) 2017
- **DNA interaction studies of new bis-anthracene polyaza macrocyclic derivative**
Location: Dijon, France
Authors: L. Guijarro, M. Inclan, B. Verdejo, A. Martínez, E. García-España
2017 - VII International Symposium on Advances in Synthetic and Medicinal Chemistry
- **Study of new aza-macrocyclic superoxide dismutase mimetics**
Location: Vienna, Austria
Authors: A. Martínez-Camarena, O. Cabezuelo, R. Tejero, J. M. Llinares, E. García-España
2017 - Workshop H2BioCat02 2017
- **Cu(II) Complexes of Small Tetraaza Pyridinophanes as SOD Mimics**
Location: Castelló, Spain
Authors: A. Martínez-Camarena, R. Tejero, J. M. Llinares, C. Soriano, P. A. Sánchez-Murcia, M. García-Basallote, L. González, E. García-España
2018 - International Symposia on Metal Complexes (ISMEC) 2018
- **Enhancement of SOD activity in boehmite supported nanoreceptors**
Location: Florence, Italy
Authors: A. Martínez-Camarena, E. Delgado-Pinar, C. Soriano, José M. Llinares, R. Tejero, E. García-España
2018 - European Colloquium on Inorganic Reaction Mechanisms 2018
- **Action mechanism of SOD Mimetics Cu(II) Complexes**
Location: Barcelona, Spain
Authors: A. Martínez-Camarena, R. Tejero, J. M. Llinares, C. Soriano, P. A. Sánchez-Murcia, M. García-Basallote, L. González, E. García-España
2019 - I Reunión científica Red Consolider
- **Enhancement of SOD activity in boehmite supported nanoreceptors**
Location: Valencia, Spain
Authors: A. Martínez-Camarena, E. Delgado-Pinar, C. Soriano, José M. Llinares, R. Tejero, E. García-España
2019 - International Symposium on Metal Complexes (ISMEC) 2019
- **Synthesis and study of SOD mimetics: from aza-macrocyclic complexes to nano-structured systems**
Location: Debrecen, Hungary
Authors: A. Martínez-Camarena, E. Delgado-Pinar, C. Soriano, José M. Llinares, R. Tejero, E. García-España
2020 - 1st European NECTAR Conference
- **Coordination Chemistry of Cu²⁺ Complexes of Small N-Alkylated Tetraazacyclophanes with SOD Activity**
Location: Belgrade, Serbia

