

Communications

The complete list of oral communications follows (underlined presenting author):

1. Roque C. "Streamlining the design and production of mixed-mode and affinity ligands". Bioprocessing Summit Europe, 18-20th March 2025, Barcelona, Spain
2. Esteves C, Moreira IP, Barbosa A, Dave D, Lampel A, Ulijn RV, Roque CA. "Peptide ionogels for artificial olfaction". XIX Iberian Peptide Meeting (EPI 2025), 26th – 28th February 2025, Santiago de Compostela, Spain
3. Costa CFS, Dias AMGC, Roque ACA, Barbosa AJM. "Computer-aided design and validation of novel affinity ligands towards the SARS-CoV-2 spike protein". 3rd Annual Meeting in Computational Structural Biology, 20th December 2024, Lisbon, Portugal
4. Dias AMGC, Prototyping novel structural and Cys-rich proteins using cell-free expression systems, 6th-8th November 2024, 7th Applied Synthetic Biology in Europe, Brno, Czech Republic
5. Domingos C., Costa H., Leitão M., Torres C., Dias M., Roque A.C.A. "Expression and Purification of a novel suckerin for bio-based materials". 7th-11th October 2024, PepperSchool, Caparica, Portugal (Flash)
6. Soares C, Lychko I, Calmeiro TR, Martins R., Barbosa AJM, Dias AMGC, Roque ACA, "Characterization of dynamic self-assembly of reflectins", 7th-11th October 2024, PepperSchool, Caparica, Portugal (Flash)
7. Natal C, Domingos C, Costa H, Dias M, Almeida E, Nascimento A, Peixoto C, Ferreira L, Roque AC, "Synthesis, characterization, and immobilization of a Petasis-Ugi affinity ligand in a chromatographic solid support", 7th-11th October 2024, PepperSchool, Caparica, Portugal (Flash talk)
8. Eva A, Lychko I, Soares C, Dias AMGC, Roque ACA, "From Nature to Innovation: Biotechnological Production, Purification, and Processing of cephalopod-specific proteins", 7th-11th October 2024, PepperSchool, Caparica, Portugal (Flash talk)
9. Faustino C.A., Dias A.M.G.C., Roque A.C.A., Costa P.M., "Drug discovery from marine bioactives: Producing a recombinant protein from an annelid toxin", PepperSchool, 7th-11th October 2024 Caparica, Portugal (Flash talk)
10. ONUR H, Dias AMGC, Esteves C, Teixeira G.D.G, Roque ACA, "OBP3 protein purification and optimizations", PepperSchool, 7th-11th October 2024 Caparica, Portugal (Flash talk)
11. Faísca R, Roque ACA, Dias AMGC, "Production and characterization of peptide-based flexible materials", PepperSchool, 7th-11th October 2024 Costa da Caparica, Portugal

12. Roque ACA, Dias AMGC, Lychko I, Soares C, "Purification and characterization of disordered proteins", Biopartitioning and Purification Conference - BPP 2024, 15th-18th September 2024, Luxemburgo
13. Natal C, Domingos C, Costa H, Dias M, Almeida E, Nascimento A, Peixoto C, Ferreira L, Roque AC, "Synthesis, characterization, and immobilization of a Petasis-Ugi affinity ligand in a chromatographic solid support", Biopartitioning and Purification Conference - BPP 2024, 15th-18th September 2024, Luxemburgo
14. Roque ACA, "Nature Inspired Solutions in Health and Biotechnology", III TOXRUN International Congress, 2nd-3rd May 2024, Porto, Portugal
15. Costa C, Dias AMGC, Roque ACA, Barbosa AJ, Novel affinity reagent for the SARS-CoV-2-spike protein, Biophysics festival, 9th-10th May 2024, Covilhã, Portugal (Flash)
16. Roque ACA, Dias AMGC, Barbosa AJ, Costa C, Domingos C, Natal C, Design and Discovery of Affinity and Mixed-mode adsorbents, Bioprocessing Summit Europe, 19th-21st March 2024, Barcelona, Spain
17. Lychko I, Soares C, Dias AMGC, Esteves C, Palma S, Roque ACA, "Protein Based Materials - Bioinspired Systems for unusual applications", SupraLife Second School, 10th-15th March 2024, Aveiro, Portugal
18. Roque ACA, "Nature Inspired Solutions in Health Biotechnology", 7th-9th December 2023, Microbiotec 2023 (National conference)
19. Faustino C, Dias AMGC, Roque CA, Costa PM, "A biotechnological approach to produce a recombinant protein from a marine annelid toxin", Jornadas do Mar, 28th to 30th of November 2023, Escola Naval (students conference)
20. Lychko I, Soares C, Dias AMGC, Roque ACA, "A scalable method to purify reflectins from inclusion bodies", 5th-8th November 2023, ISPPP 2023, Viena Austria
21. Lychko I, Soares C, Dias AMGC, Esteves C, Palma S, Roque ACA, "Protein Based Materials - Bioinspired Systems for unusual applications", 10th-13th September 2023, DIGS-BB, Biological Making of Materials Summer School 2023, Dresden Germany
22. Dias AMGC, Moreira I, Lychko I, Nurrito A, Barbosa A, Bueno-Lutz V, Mezzenga R, Carvalho AL, Soares C, Marques A, Ferreira I, Cena C, Pina A, Roque ACA, Reflectin-derived protopeptide: solvent modulation to promote different supramolecular assembly and materials. Affinity 2023, 5th -7th June 2023, Lisbon, Portugal (flash talk)
23. Lychko I, Soares C, Calmeiro TR, Barbosa AJM, Dias AMGC, Roque ACA, Characterization of dynamic self-assembly of reflectins. Affinity 2023, 5th -7th June 2023, Lisbon, Portugal (flash talk)

24. Faustino C, Dias AMGC, Roque CA, Costa PM, A biotechnological approach to a marine toxin candidate. Affinity 2023, 6th June 2023, Lisbon, Portugal (flash talk)
25. Teixeira GDG, Esteves C, Moro AJ, Calvário JRS, Lima JC, Barbosa AJM, Roque CA, Odorant-binding proteins based sensors for Volatile Organic Compounds detection. Affinity 2023, 7th June 2023, Lisboa, Portugal (Younger Investigator Award)
26. Esteves C, Moreira IP, Barbosa A, Dove D, Lampel A, Ulijn RV, Roque AC, Peptide ionogels in designed solvents. Affinity 2023, 7th June 2023, Lisboa, Portugal (flash talk)
27. Natal CM, Dias AMGC, Roque, ACA, "Bioindicator to monitor environmental humidity inside packaging". Affinity 2023, 7th June 2023, Lisboa, Portugal (flash talk)
28. Padrão I, Palma SICJ, Ramou E, Rebordão G, Alves R, Esteves C, Pinto J, Pinho PG, Roque ACA, Olfaction-inspired non-invasive renal cancer diagnostics. Affinity 2023, 7th June 2023, Lisboa, Portugal (flash talk)
29. Palma SICJ, Esteves C, Ramou E, Moreira IP, Gamboa H, Silveira M, Roque ACA, Designed ionic liquid-based soft materials for artificial olfaction. Affinity 2023, 7th June 2023, Lisboa, Portugal (flash talk)
30. Natal C, Domingos C, Costa H, Dias AMGC, Roque ACA. Synthesis and characterization of an antibody-affinity ligand based on a Petasis-Ugi scaffold. Affinity 2023, 5th June 2023, Lisbon, Portugal (flash talk)
31. Costa CFS, Barbosa AJM, Dias AMGC, Roque ACA. Affinity reagents towards SARS-CoV-2. Affinity 2023, 6th June 2023, Lisbon, Portugal (flash talk)
32. Lychko I, Soares C, Calmeiro TR, Barbosa AJM, Dias AMGC, Roque ACA, Dynamic Self-Assembly characterization of reflectins. Biophysics Festival, 1st-2nd June 2023, Porto, Portugal (flash talk)
33. Palma SICJ, Esteves C, Padrão I, Teixeira G, Garcia M, Fernandes S, Gonçalves I, Santos J, Gamboa H, Roque ACA, Olfaction-inspired technologies for healthcare. Bio Jornadas Universidade Lusófona, Lisboa, 18th May 2023 (By invitation Prof Tiago Reis)
34. Palma SICJ, Esteves C, Padrão I, Teixeira G, Garcia M, Fernandes S, Gonçalves I, Santos J, Gamboa H, Roque ACA, Olfaction-inspired technologies for healthcare. Tec2Med Summit FCT-NOVA, 5th May 2023 (by invitation)
35. Roque ACA, Bionspired Dynamic Systems, University of Aveiro, 28th November 2022 (by invitation Prof. João Mano)

36. Roque ACA, Bioinspired systems in Separation and Sensing, i3S Annual meeting 2022, 11th November 2022, Porto, Portugal (by invitation)
37. Roque ACA, Dias AMGC, Barbosa AJ, Costa C, Domingos C, Natal C, Design and Discovery of Affinity and Mixed-mode adsorbents, PEGS Europe 2022 - 14th Annual Protein and Antibody Engineering Summit, 14 to 16th November 2022, Barcelona, Spain
38. Palma SICJ, Esteves C, Roque ACA, O nariz eletrónico no carcinoma urotelial da bexiga - projeto ENSURE. The southside of urology - 2^o Simpósio de Urologia, 4-5th November 2022, Costa de Caparica, Portugal (by invitation Dr. Miguel Carvalho, HGO)
39. Dias AMGC, Costa H, Lychko I, Soares CL, Nurrito A, Domingos C, Roque ACA. Cell-based vs Cell-free production and purification of marine-based structural proteins, 6th Applied Synthetic Biology in Europe, 2-4 November 2022, Edinburgh, UK
40. Roque ACA, Scents in the Drought, Osmocosm 2022 – Global Machine Olfaction Technologies Conference – 21st October 2022, virtual event
41. Lychko I, Costa HMA, Soares CL, Nurrito A, Dias AMGC, Roque ACA. Strategies for the purification of cephalopod-specific structural proteins with biotechnological potential. BPP 2022 - Biopartitioning & Purification Conference, 25th-28th September 2022, Aveiro, Portugal.
42. Teixeira GDG, Calvário JRS, Moro AJ, Lima JC, Barbosa AJM, Roque ACA. Unraveling odorant-binding proteins manufacturing. BPP2022 - Biopartitioning & Purification Conference, 25th-28th September 2022, Aveiro, Portugal.
43. Gomes F, Monteiro A, Truta L, Faria A, Dias M, Natal C, Roque C, Penha B, Simões T, Redol J. Active and passive solutions for HPDE smart and sustainable packaging: barriers and sensing systems. 19th International Conference on Nanosciences & Nanotechnologies (NN22) 5-8 July 2022, Thessaloniki, Greece
44. Roque ACA, Non-conventional assembly of peptides and proteins, BOKU, University of Viena, Viena, Austria, 8th July 2022, by invitation Prof. Alois Jungbauer
45. Lychko I, Soares CL, Calmeiro TR, Dias AMGC, Roque ACA. Self-assembly analysis of cephalopod-specific intrinsically disordered structural proteins. 8th International Iberian Biophysics Congress (IIBC2022), 20th-21st June 2022, Bilbao, Spain
46. Palma SICJ, Frazão J, Alves R, Costa HMA, Alves C, Gamboa H, Silveira M, Roque ACA. Learning to see VOCs with liquid crystal droplets. International Symposium on Olfaction and Electronic Nose - ISOEN 2022, 29 May - 1 June 2022, Aveiro, Portugal
47. Roque ACA. Designing functional materials using molecular recognition and mimetism, CQE Days, 27th May 2022, Lisbon, Portugal (Invited Plenary Lecture)

48. Roque ACA. Bioinspired systems in Separation and Sensing, Biosciences Chapter of 3M's Technical Forum, 19th May 2022, online (Invited Sponsored Seminar)
49. Roque ACA. Science and Fun (ding), Encontro Ciência'22, Encontro com a Ciência e a Tecnologia em Portugal, 16 a 18 de Maio 2022, Lisboa, Portugal
50. Esteves C, Palma SICJ, Roque ACA, Non-conventional assembly of peptides and proteins, KTH, Stockholm, 1st April 2022 (invited seminar)
51. Roque ACA, Seeing the Unseen, invited seminar for JORTEC Chemical Engineering, 21st March 2022, Instituto Superior Técnico (Invited Contribution)
52. Dias AMGC, Barbosa AJM, Costa C, Costa HMA, Domingos C, Roque ACA, The Versatility of Designed Affinity Ligands in Downstream Processing, Bioprocessing Summit Europe, 22nd-24th March 2022, Barcelona, Spain.
53. Roque ACA, Esteves C, Palma SICJ, Ramou E, Oliveira AR, Teixeira GD, Cebola I, Biohybrid gels for artificial olfaction, 16th International School and Conference on Biological Materials Science - Bioinspired Materials 2022, 21st-24th March 2022 (virtual)
54. Roque ACA, Protein-based materials for Biomed/Biotech applications, invited seminar for the PhD program "Molecular and Cellular Biotechnology Applied to Health Sciences (BiotechHealth)", 31st January 2022 (Virtual, Invited Contribution)
55. Alves R, Rodrigues J, Ramou E, Palma SICJ, Roque ACA, Gamboa H, Classification of volatile compounds with morphological analysis of an e-nose response, 15th International Conference on Bio-inspired Systems and Signal Processing - BIOSIGNALS 2022, January 2022 (virtual).
56. Oliveira AR, Ramou E, Teixeira GG, Palma SICJ, Roque ACA, Incorporation of VOC-Selective Peptides in Gas Sensing Materials, 15th International Conference on Biomedical Electronics and Devices 2002, January 2022 (virtual).
57. Esteves C, Palma SICJ, Ramou E, Oliveira AR, Teixeira GD, Roque ACA, Seeing the unseen with designed functional materials, part of the cycle "Investigação em Materiais no âmbito das bolsas ERC" by Sociedade Portuguesa de Materiais, 26th January 2022 (invited seminar, virtual)
58. Roque ACA, Santos R, Iria I, Manuel A, Leandro A, Madeira C, Goncalves J, Carvalho A, Affinity magnetic precipitation for antibody purification, ISPPP2021, 7-10th November 2021, Porto, Portugal
59. Barbosa AJM, Costa C, Costa H, Matos M, Dias M, Pina AS, Roque ACA, Molecular Modeling on the Discovery of synthetic affinity-adsorbents, ISPPP 2021, 7-10th November 2021, Porto, Portugal (Best communication award)
60. Roque ACA, Seeing the Unseen, Osmocosm 2021 - Inaugural Global Machine Olfaction Technologies Conference at MIT, 28th-30th October 2021 (virtual) - Invited Speaker
61. Roque ACA, Designing functional materials using molecular recognition and mimetism, ChemBioGels 2021, 21st-22nd October 2021 (virtual) - Plenary Speaker

62. Santos R, Costa H, Romão MJ, Carvalho ALM, Roque ACA, Affinity magnetic particles for protein crystallization and purification, 13th European Congress of Chemical Engineering and 6th European Congress of Applied Biotechnology, 20-23rd September 2021 (virtual edition)
63. Dias AMGC, Moreira I., Lychko I., Nurrito A., Barbosa AJM, Bueno-Lutz V., Mezzenga R., Marques A., Ferreira I., Cena C., Pina AS, Roque ACA, Protopeptide the basic unit of Reflectins: hierarchical self-assembly study in different solvents and materials properties, Designer Biology 2021, 8th to 10th of September 2021, European Federation of Biotechnology (virtual edition)
64. Palma S, Esteves C, Ramou E, Oliveira AR, Alves R, Santos J, Gamboa H, Roque ACA, Gelatin ionogels and hybrid gels for artificial olfaction, Designer Biology 2021, 8th-10th September 2021, European Federation of Biotechnology (virtual edition)
65. Esteves C, Palma S, Ramou E, Moreira I, Oliveira AR, Teixeira G, Padrão I, Rebordão G, Santos J, Roque ACA, Intelligent gels for artificial olfaction, Biosensors 2021 (31st Anniversary World Congress on Biosensors), 26th-29th July 2021 (virtual edition)
66. Inês Padrão, Dr. Claudia Fernandes, Dr. Arménio J.M. Barbosa, Prof. Vitor Alves, Prof. Paula Gomes, Prof. Tiago Fernandes, Dr. Ana Pina, Dr. Margarida Dias, Prof. Ana Cecília A. Roque., Affinity-triggered assemblies for cell differentiation and tissue engineering, Affinity 2021, 22-24 June 2021 (virtual edition)
67. Esteves C, Palma S, Ramou E, Oliveira AR, Teixeira G, Padrão I, Rebordão G, Santos J, Alves R, Roque ACA, Intelligent gels for artificial olfaction, iSOCS Short Course Summer 2021 - In search for COVID19: Olfaction, Biomarkers and a Pandemic agent, 26th - 28th May 2021 (virtual edition)
68. Barbosa AJM, Roque ACA, Molecular details of de novo designed affinity-adsorbents, 4th Mini Modelling Workshop 2021, Recovery Conference Series, 25 May 2021, NJ, USA (virtual edition)
69. Esteves C, Palma S, Ramou E, Oliveira AR, Teixeira G, Padrão I, Rebordão G, Santos J, Alves R, Roque ACA, Intelligent gels for artificial olfaction, UCIBIO Bioseminars, 19th May 2021 (virtual seminar)
70. dos Santos R, Romão MJ, Carvalho AL, Roque ACA, Affinity magnetic particles for protein crystallization and purification, EFB 2021 virtual conference, 10-14th May 2021
71. Ramou E, Palma S, Roque ACA, Utilising cyanobiphenyl-based liquid crystal droplets to detect volatile gases, 47th German Liquid Crystal Conference, 17-19 March 2021, Magdeburg, Germany.
72. Moreira IP, Sato L, Alves C, Palma SICJ, Roque ACA, Fish gelatin-based films for gas sensing, 14th International Conference on Biomedical Electronics and Devices, 11-13 February 2021 (virtual edition). **Best paper award**
73. Esteves C, Palma S, Moreira I, Ramou E, Oliveira AR, Rebordão G, Costa H, Santos J, Roque ACA, Intelligent gels for artificial olfaction, 5th International Conference on Bioinspired and Biobased Chemistry and Materials & 2nd International Conference on Optics and Photonics, NICE 2020, 12th - 14th October 2020, Nice, France

74. Mariz BP, Carvalho S, Silva L, Navarro T, Roque ACA, Pina AS, A minimal artificial fluorescent phosphatase, 5th Applied Synthetic Biology in Europe, 2-4 November 2020 (virtual edition)
75. Matos M, Pina AS, Dias AM, Barbosa AJ, Roque ACA, Tailor made affinity adsorbents for selective capture and recovery, PEGS Europe Virtual event, 9-12 November 2020.
76. Roque ACA, Gas sensing materials by cooperative assembly, Particle-Based Materials Symposium, 22nd October 2020, INM - Leibniz-Institut für Neue Materialien gGmbH (virtual) - Plenary speaker
77. Roque ACA, Artificial senses and electronic noses, CampusParty Portugal, 9-11 July 2020 (virtual edition) - Invited speaker
78. Roque ACA, Invited speaker at NOVA Saúde 2nd International Conference - "Respiratory Disease and Environmental Health", 14 October 2019 - Presentation "Artificial Olfaction in non-invasive diagnostics", Lisbon, Portugal
79. Roque ACA, Invited speaker at IUPAC Conference 2019 (100th anniversary), session 'The International Younger Chemists Network: Shaping the Future Worldwide'. 5-12 July 2019, Paris, France.
80. Ramou E, Palma S, Leite F, Costa H, Santos G, Alves C, Moreira I, Roque ACA, Molecular Recognition with Tunable Gas-sensitive Liquid Crystal Gels, 15th European Conference on Liquid Crystals, 30 June-05 July 2019, Wrocław, Poland.
81. Dias M, Fernandes C, Pina AS, Barbosa AMJ, Palma SICJ, Padrão I, Esteves C, Santos G, Alves C, Costa H, Roque ACA, Multicomponent and functional protein-based materials, DesignerBiology 2019, 31 July - 2 August, Newcastle, UK.
82. Moreira I, Roque ACA, Fish Gelatin Hybrid Films for the Detection of Volatile Organic Compounds, First UCIBIO Workshop on Blue Biotechnology, 17 June 2019, Caparica, Portugal.
83. Matos M, Gonçalves J, Rothbauer U, Freire M, Pina AS, Roque ACA, Purification platform for antibodies and derived fragments using a de novo designed affinity adsorbent, Affinity 2019, 26-28 June 2019, Stockholm, Sweden. (Younger Investigator Award)
84. Palma SICJ, Esteves C, Padua AC, Alves C, Santos G, Costa H, Dionisio M, Gamboa H, Gruber J, Roque ACA, Enhanced gas sensing with soft functional materials, ISOCS/IEEE International Symposium on Olfaction and Electronic Nose - ISOEN 2019, 26-29 May, Fukuoka, Japan.
85. Padua AC, Gamboa H, Roque ACA, Impact of Sensing Film's Production Method on Classification Accuracy by Electronic Nose, 12th International Joint Conference on Biomedical Engineering Systems and Technologies, 22-24 February 2019, Prague, Czech Republic.
86. Santos GMC, Alves CM, Palma SICJ, Gamboa H, Roque ACA, An optimized E-nose for efficient volatile sensing and discrimination, Biodevices 2019, 12th International Joint Conference on Biomedical Engineering Systems and Technologies, 22-24 February 2019, Prague, Czech Republic.
87. Palma SICJ, Tragedo AP, Porteira AR, Frias MJ, Gamboa H, Roque ACA, Machine learning for the meta-analyses of microbial pathogens' volatile signatures, UCIBIO Annual meeting, 28 - 29 September 2018, Caparica, Portugal.

88. Palma SICJ, Tragedo AP, Porteira AR, Frias MJ, Gamboa H, Roque ACA, A machine learning approach to microbial pathogens' volatile signatures, Lisbon Area Post-Doc Meeting, 15 November 2018, Lisbon, Portugal.
89. Roque ACA, Pina AS, dos Santos R, Matos MB, Carvalho, AL, Affinity-based chromatographic & nonchromatographic approaches, PEGS Europe 2018, 16 November 2018, Lisbon, Portugal.
90. Matos M, Trovão F, Pina AS, Roque ACA, Petasis-Ugi affinity ligands as alternative tools for antibody purification, ESBES 2018, 9-12 September 2018, Lisbon, Portugal
91. dos Santos R, Lychko I, Romão MJ, Goncalves J, Carvalho AL, Roque ACA, Affinity magnetic precipitation for monoclonal antibodies purification, ESBES 2018, 9-12 September 2018, Lisbon, Portugal
92. Roque ACA, Palma SICJ, Esteves C, Pádua AC, Oliveira AR, Teixeira G, Santos G, Maugeri G, Alves C, Gamboa H, Self-assembled hybrid gels for intelligent gas sensing, ESBES 2018, 9-12 September 2018, Lisbon, Portugal
93. Kamiki J, Roque ACA, Barbosa AJM, Compilation of marine compound libraries for discovery of new antileukemic drugs, ESBES 2018, 9-12 September 2018, Lisbon, Portugal
94. Roque ACA, Exploring molecular recognition in mimetic systems, Ciência 2018, 3 July 2018, Lisbon, Portugal
95. Roque ACA, A project story, Jornadas CICECO 2018: Living science together, 11-12 June 2018, University of Aveiro, Portugal (Invited lecture).
96. Roque ACA, Pina AS, Palma SICJ, Esteves C, Pádua AC, Fernandes CSM, Santos G, Gamboa H, Designed affinity ligands and functional materials for affinity purification and sensing. Applied Synthetic Biology in Europe, 24-26 October 2018, France.
97. Pina AS, Duncan KL, Carvalho S, Morgado L, Carvalho HF, Wang T, Roque ACA and Ulijn RV, Exploiting Phage Display and Supramolecular Recognition for the discovery of a short peptide phosphatase. PEPMAT 2018 - 3rd International Conference on Peptide Materials for Biomedicine and Nanotechnology, 16-18 July 2018, London, UK.
98. Roque ACA, Exploring molecular recognition in mimetic systems, Graphene CDT Advanced Technology Lectures, 15 June 2018, Cambridge, UK.
99. Roque, ACA, Exploring molecular recognition in mimetic systems, Chem2Nature Summer School, 3-6 June 2018, Porto, Portugal.
100. Roque, ACA, Artificial mimetic systems for molecular recognition in bioengineering, 16th Iberian Peptide Meeting & 4th ChemBio Group meeting, 5-7 February 2018, Barcelona, Spain.
101. Padua, AC, Palma S, Gruber J, Gamboa H, Roque ACA, Design and Evolution of an Opto-electronic Device for VOCs Detection, BIODEVICES 2018: 11th International Joint Conference on Biomedical Engineering Systems and Technologies, 19-21 January 2018, Funchal, Madeira, Portugal
102. dos Santos, R, Romão, MJ, Carvalho, AL, Roque, ACA, "An ABC strategy for antibody purification through crystallization", Workshop on Anything but Conventional Chromatography - ABC2, 22-24 November 2017, Lisbon, Portugal.
103. dos Santos, R, Romão, MJ, Carvalho, AL, Roque, ACA, "An ABC strategy for protein purification: the proof-of-concept of magnetic crystallization", 4th European Congress of Applied Biotechnology - ECAB4, 1-5 October 2017, Barcelona, Spain.

104. Roque, ACA, Pina, AS, dos Santos, R, "How peptidomimetics support downstream processing", 4th European Congress of Applied Biotechnology - ECAB4, 1-5 October 2017, Barcelona, Spain.
105. Palma, SICJ, Fernandes, CSM, dos Santos, R, Roque ACA "Microbial polymers combined with stimuli responsive nanomaterials for biotechnological and biomedical applications", Designer Biology, 7-9 June 2017, Vienna, Austria.
106. Palma, SICJ, Fernandes, AR, Roque, ACA. "Affinity interactions ruling pH-dependent cell labeling of a MRI nanoprobe", Affinity 2017, 25-29 June 2017, Paris, France.
107. A. Hautier, A.M.G.C. Dias, T. Tron, A.C.A. Roque, O. Iranzo. "Designed Peptidic Platforms: from Concepts to Biotechnological Applications", BIT's 10th Anniversary of Protein and Peptide Conference, 22 – 24 March 2017, Fukuoka, Japan.
108. Roque ACA, Designing biomimetics and smart-materials for recognition and capture of biologics, Bio|Nano|Med, June 23 - 24 2016, CUNY Advanced Science Research Center, New York, US.
109. Roque ACA, Versatile affinity ligands for bioseparation processes, 8th Annual PEGS Europe, 3- 4 November, 2016, Lisbon, Portugal
110. Roque ACA, Tailored synthetic affinity reagents, 5th International Iberian Biophysics Congress, 15-17 June 2016, Porto, Portugal.
111. Carvalho HF, Branco RJF, Roque ACA, Iranzo O, Engineering of Zinc finger peptides for the development of metalloprotease models, 13th European Biologic Inorganic Chemistry Conference, 2016, Budapest, Hungary.
112. Roque ACA, Tailored synthetic ligands for purification purposes, 3rd Applied Synthetic Biology meeting, EFB, 22-24 February 2016, Caparica, Portugal.
113. Pina AS, Batalha IL, Fernandes CSM, Aoki MA, Roque ACA, A nano-scale magnetic antimicrobial platform, 15th Iberian Peptide Meeting, 10-12 February 2016, Porto, Portugal.
114. Fernandes CSM, Barbosa I, Castro R, Coroadinha AS, Barbas A, Roque ACA, Selection of peptides for the efficient and mild affinity purification of retroviral particles, 15th Iberian Peptide Meeting, 10-12 February 2016, Porto, Portugal.
115. Fernandes CSM, dos Santos R, Pina AS, Castro R, Coroadinha AS, Barbosa I, Barbas A, Roque ACA, Selective and mild recovery of retroviral particles with novel designed ligands, Microbiotec 2015, 10-12 December 2015, Évora, Portugal.
116. Roque ACA, Magnetically-Driven Hybrid Technologies for Antibody Purification, 7th Annual PEGS Summit Europe, 2-3 November 2015, Lisbon, Portugal.
117. Palma SICJ, Marciello M, Carvalho A, Silva J, Martins P, Rodrigues CAV, Morales MP, Freitas F, Fernandes A, Cabral JMS, Roque ACA, Nanosystems for MRI cell labeling using magnetism, biopolymers and pH sensitive bio-coatings, NANOBIOAPP2015, Latest Advances on Nanomaterials for Biomedical Applications, 21-23 September 2015, Barcelona, Spain.
118. Fernandes C, Castro R, Coroadinha A, Barbosa I, Barbas A, Roque ACA, Synthetic and Biological Affinity Ligands for the Purification of Retroviral Particles, ECCE10-ECAB3-EPIC5, 27th September – 1st October, 2015, Nice, France (Keynote).
119. Dhadge V, Freitas F, Azevedo A, Aires-Barros R, Roque ACA, Biopolymers, Magnetism and Aqueous-two phase systems: how they can be combined to improve purification systems, Biopartitioning & Purification Conference, Vienna, Austria, 7th-10th June 2015

120. Roque ACA, Synergies between affinity biomimetics and magnetic nanoparticles, 6th European Conference on Chemistry in Life Sciences (6th ECCLS), 10-12 June 2015, Lisbon, Portugal.
121. Pina AS, Dias AMGC, Fernandes CSM, Palma SI, Roque ACA, Biomimetics and small peptidomimetics for surface biofunctionalization, 4th International Conference on Bio-sensing technology, 10-13 May 2015, Lisbon, Portugal,.
122. Pina AS, Batalha IL, Fernandes CSM, Aoki MA, Roque ACA, A nano-scale magnetic antimicrobial platform, Nanopeptide 2015, International Meeting on Peptide & Protein based Materials and Technologies, University of Strathclyde, 2 - 4 March, 2015, Glasgow, UK.
123. Dias AMGC, Iranzo O, Roque ACA, Human Pin1 WW Domain Scaffold Production and Applications, PEGS Europe, Lisbon, 3-7 November 2014, Portugal.
124. Dhadge VL, Barroso T, Aguiar-Ricardo A, Azevedo A, Aires-Barros R, Roque ACA, Magnetically-enhanced Affinity Processes for Protein Purification, Focus on Frontiers in Industrial Biotechnology, 17 – 19 November 2014, London, UK.
125. Dhadge VL, Azevedo A, Aires-Barros MR, Roque ACA, Hybrid Process Technology for Antibody Purification, PREP 2014 - 27th International Symposium on Preparative and Process Chromatography, 20–23 July 2014, Boston, United States.
126. Batalha IL, Branco R, Iranzo O, Lowe CR, Roque ACA, Phosphopeptide enrichment using synthetic biomimetic ligands, 34th International Symposium on the Separation of Proteins, Peptides and Polynucleotides, 5-7 November 2014, Fortress Marienberg, Würzburg, Germany.
127. Dhadge VL, Barroso T, Aguiar-Ricardo A, Azevedo A, Aires-Barros R, Roque ACA, Magnetically-driven Hybrid Technologies for Antibody Purification, 10th European Symposium on Biochemical Engineering Sciences, Lille, 7-10 September 2014, France.
128. Dias AMGC, Iranzo O, Roque ACA, hPin1 WW domain - From Production to Engineering Applications, 10th European Symposium on Biochemical Engineering Sciences, Lille, 7-10 September 2014, France.
129. Barroso T, Aguiar-Ricardo A, Roque ACA, Hybrid monoliths based on natural biopolymers for the affinity purification of biopharmaceuticals, European Symposium on Biopolymers - ESBP2013, 7-9 October 2013, Lisbon, Portugal.
130. Pina AS, Batalha I, Fernandes C, Branco RJF, Lowe CR, Roque ACA. Novel hybrid interaction pairs 2nd Applied Synthetic Biology in Europe, 25-27 November 2013, Malaga, Spain.
131. Pina AS, Lowe CR, Roque ACA. Novel affinity pairs “tag-receptor” for the purification of fusion proteins. 17th International Conference on Biopartitioning and Purification, BPP 2013 - Newport, RI - October 6-10, 2013
132. Semeano ATS, Costa BEV, Roque ACA, Gruber J. Sensores quimiorresistivos baseados em líquidos iônicos para quantificação de cacau em barras de chocolate. CD de resumos, BEA-007. Águas de Lindóia, SP. (2013).
133. Dias AMGC, Branco RJF, Iranzo O, Roque ACA, Human Pin1 WW domain stability and affinity studies: an in silico and an experimental approach, Affinity 2013, 26-29 June 2013, Vienna, Austria.
134. Roque ACA, Aguiar-Ricardo A, Dias AMGC, Batalha IL, Branco RJF, Santana SDF, Barroso T, Dhadge V, Toward a sustainable alternative for antibody purification: theoretical and

- experimental studies, 9th European Congress of Chemical Engineering+2nd European Congress of Applied Biotechnology, 21-25 April 2013, The Hague, The Netherlands.
135. Barroso T, Roque ACA, Aguiar-Ricardo A, Bioinspired affinity monoliths: a fast and efficient alternative system for antibody purification, KEYNOTE LECTURE presented at the ESBES + ISPPP 2012 (9th European Symposium on Biochemical Engineering Science + 32nd International Symposium on the Separation of Proteins, Peptides and Polynucleotides), 23 - 26 September 2012, Istanbul, Turkey.
 136. Dias AMGC, Branco RJF, Roque ACA, Understanding the molecular recognition between antibody fragments and an artificial protein A, Oral communication presented at the ESBES + ISPPP 2012 (9th European Symposium on Biochemical Engineering Science + 32nd International Symposium on the Separation of Proteins, Peptides and Polynucleotides), 23 - 26 September 2012, Istanbul, Turkey.
 137. Borlido L, Moura L, Azevedo AM, Roque ACA, Farinha JPS, Aires-Barros MR, Thermo-responsive magnetic particles in antibody separation, KEYNOTE LECTURE presented at the ESBES + ISPPP 2012 (9th European Symposium on Biochemical Engineering Science + 32nd International Symposium on the Separation of Proteins, Peptides and Polynucleotides), 23 - 26 September 2012, Istanbul, Turkey.
 138. Roque ACA, Branco RJF, Dias AMGC, Santana S, Tailor-made robust ligands for affinity separation processes, Applied Synthetic Biology in Europe 2012, 6-8 February 2012, Barcelona, Spain.
 139. Borlido L, Azevedo AM, Roque ACA, Aires-Barros MR, Potential of boronic acid magnetic particles in the direct purification of human monoclonal antibodies from CHO cell supernatants, 4th joint national congress of Microbiology and Biotechnology:Microbiotec11, 1-3 December 2011, Braga, Portugal.
 140. Ataíde F, Clemente JJ, Cunha AE, Freitas F, Reis MAM, Roque ACA, Novais AM, Santos RJ, Lopes JC, Oliveira R, Analysis of oxygen transport enhancement by functionalized magnetic nanoparticles (FMP) in bioprocesses, Chempor 2011, 5-7 September 2011, Caparica, Portugal.
 141. Batalha IL, Santana S, Hussain A, Roque ACA, Selection of biopolymer-coated magnetic supports for bioseparation purposes, Chempor 2011, 5-7 September 2011, Caparica, Portugal.
 142. Borlido L, Azevedo AM, Roque ACA, Aires-Barros MR, Affinity based purification of human monoclonal antibodies from CHO cell supernatants using boronic acid magnetic particles, Affinity 2011, 16-19 June 2011, Tavira, Portugal.
 143. Branco RJF, Dias AMGC, Roque ACA, Learning from Nature to improve Biomimetic Affinity Ligands for Antibody Purification, Affinity 2011, Tavira, Portugal (16-19 June 2011).
 144. Hussain A, Roque ACA, Vidinha P, Green Biosensors , ESBES & ISPPP & ISB Symposia 2010, 5-8 September 2010, Bologna, Italy.
 145. Roque, ACA Magnetismo e Afinidade para processos biotecnológicos , Ciência 2010, Encontro com a Ciência e a Tecnologia em Portugal, 4-7 July 2010, Lisbon, Portugal.
 146. Sandu ICA, Roque ACA, Correia CR, Pacheco JFF, Schaefer S, Biochemical mapping/imaging of proteinaceous binders: A novel integrated protocol of investigation , 1st International Congress -CHEMISTRY FOR CULTURAL HERITAGE, 30 June – 3 July 2010, Bologna, Italy.
 147. Roque ACA, Batalha IL, Pina AS, Marcos AS, Hussain A. Nanostructured bioactive

- templates in polymeric shells, MicroBiotec09, November 2009, Vilamoura, Portugal.
148. Sandu ICA, Roque ACA, Schaefer S, Implications of the biochemical assays in the analysis of organic binders from polychrome works of art, MATCONS 2009- Matter and Materials in/for Heritage Conservation, 15 -19 September 2009, Craiova, Romania.
 149. Hussain A, Roque ACA, Liquid Crystal Biosensors , Affinity 2009 - The 18th biennial meeting of the International Society for Molecular Recognition, 12-16 July, 2009, Reykjavik, Iceland.
 150. Roque ACA, Bicho A, Cardoso AS, Batalha IL, Domingos P. In vitro studies with Gum Arabic coated magnetic nanoparticles , Affinity 2009 - The 18th biennial meeting of the International Society for Molecular Recognition, July 12-16, 2009, Reykjavik, Iceland.
 151. Pina AS, Lowe CR, Roque ACA, Comparison of HTS techniques for the selection of affinity ligands from solid-phase combinatorial libraries , BPP 2009, June 14-19, 2009, Uxbridge, UK.
 152. Peça I, Costa MS, Roque ACA, Bicho A, Cardoso MM, Antibody conjugated PLGA nanoparticles containing anti-cancer drugs for site-specific drug delivery , CHEMPOR2008, 10th International Chemical and Biological Engineering Conference, 4-6 September 2008, Braga, Portugal.
 153. Wilson O, Roque ACA, Adsorption of Gum Arabic on Bioceramic Nanoparticles, Materials Science & Technology 2006, Conference and Exhibition, 15-19 October 2006, Duke Energy Centre, Cincinnati, OH.
 154. Conde JP, Cabeça R, Pereira AP, Roque ACA, Fixe AF, Prazeres DM, Chu V, Surface Reactions of Dna And Proteins On Functionalized Thin Film Surfaces Controlled By The Application Of A Single Voltage Pulse , MRS Spring meeting, 18 – 20 April 2006, San Francisco, USA.
 155. Roque ACA, Mimicking Biology: Rationally Designed Synthetic Ligands with Affinity for Biomolecules, ERA-Chemistry, Madrid Workshops 2006, 13-17 March 2006, Madrid, Spain.
 156. Roque ACA, Haigh J, Lowe CR, Affinity Adsorbents for the purification of Immunoglobulins , 16th Biennial Meeting of the International Society for Molecular Recognition, 14-18 August 2005, Uppsala, Sweden.
 157. Roque ACA, Taipa MA, Lowe CR, Synthesis and Evaluation of Immunoglobulin-binding ligands , 12th International Biotechnology Symposium and Exhibition, 17-22 October 2004, Santiago, Chile.
 158. Roque ACA, Taipa MA, Lowe CR, A Protein L Mimic , 15th International Symposium on Affinity Interactions, St. John's College, 27 July – 1 August 2003, Cambridge, UK.
 159. Roque ACA, Taipa MA, Lowe CR, Synthesis and Evaluation of a Protein L Mimic, GAb 2002 International Symposium on Downstream Processing of Genetically Engineered Antibodies and Related Molecules, 20-22 October 2002, Porto, Portugal.

- **Oral communications (presenting author underlined)**

Awards

Barbosa AJM, Costa C, Costa H, Matos M, Dias M, Pina AS, Roque ACA, Molecular Modeling on the Discovery of synthetic affinity-adsorbents, IPSSS 2021, 7-10th November 2021, Porto, Portugal - Short oral presentation Award.

Matos M, Gonçalves J, Rothbauer U, Freire M, Pina AS, Roque ACA, Purification platform for antibodies and derived fragments using a de novo designed affinity adsorbent, Affinity2019, 26 - 28 June 2019, Conference, Stockholm - Younger Investigator Award.

Matos M, Trovão F, Gonçalves J, Pina A, Roque ACA, Novel adsorbent platform for antibody purification using small synthetic affinity ligands, ACS National Meeting & Expo, March 31 - April 4, 2019, Orlando, FL (Excellent Young Researcher Award by Antibodies from MDPI).

Pina AS, Duncan KL, Carvalho S, Morgado L, Carvalho HF, Wang T, Roque ACA and Ulijn RV, Exploiting Phage Display and Supramolecular Recognition for the discovery of a short peptide phosphatase. PEPMAT 2018 Third International Conference on Peptide Materials for Biomedicine and Nanotechnology, 16-18 July 2018, London, UK - Travel Grant awarded by the Royal Society of Chemistry.

Borlido L, Azevedo AM, Roque ACA, Aires-Barros MR, Affinity based purification of human monoclonal antibodies from CHO cell supernatants using boronic acid magnetic particles, Affinity 2011, 16-19 June 2011, Tavira, Portugal – Younger Investigator Award (Sponsored by Roche)

Pina AS, Lowe CR, Roque ACA, Comparison of HTS techniques for the selection of affinity ligands from solid-phase combinatorial libraries, BPP 2009, 14-19 June 2009, Uxbridge, UK - Travel Award.

Plenary Lectures

Roque ACA, Synergies between affinity biomimetics and magnetic nanoparticles, presented at the 6th European Conference on Chemistry for Life Sciences (6th ECCLS), Lisbon, Portugal, 10-12 June 2015.

Keynotes

Roque, ACA, Exploring molecular recognition in mimetic systems, Chem2Nature Summer School, 3-6 June 2018, Porto, Portugal

Fernandes C, Castro R, Coroadinha A, Barbosa I, Barbas A, Roque ACA, Synthetic and Biological Affinity Ligands for the Purification of Retroviral Particles, ECCE10-ECAB3-EPIC5, 27 September – 1 October 2015, Nice, France

Barroso T, Roque ACA, Aguiar-Ricardo A, Bioinspired affinity monoliths: a fast and efficient alternative system for antibody purification, presented at the ESBES + ISPPP 2012 (9th European Symposium on Biochemical Engineering Science + 32nd International Symposium on

the Separation of Proteins, Peptides and Polynucleotides), 23 - 26 September 2012, Istanbul, Turkey.

Borlido L, Moura L, Azevedo AM, Roque ACA, Farinha JPS, Aires-Barros MR, Thermo-responsive magnetic particles in antibody separation, presented at the ESBES + ISPPP 2012 (9th European Symposium on Biochemical Engineering Science + 32nd International Symposium on the Separation of Proteins, Peptides and Polynucleotides), 23 - 26 September 2012, Istanbul, Turkey.

Invited Lectures

Roque ACA, Invited speaker at NOVAsaúde 2nd International Conference - "Respiratory Disease and Environmental Health", 14 October 2019 - Presentation "Artificial Olfaction in non-invasive diagnostics", Lisbon, Portugal

Roque ACA, Invited speaker at IUPAC Conference 2019 (100th anniversary), session 'The International Younger Chemists Network: Shaping the Future Worldwide'. 5-12 July 2019, Paris, France.

Roque ACA, Affinity functional materials for artificial devices, CellNova MiniSymposium, 10th May 2019, KTH, Stockholm (invitation Prof. Sophia Hober)

Roque ACA, Affinity functional materials for artificial devices, University of Bayreuth, 14 November 2018, Bayreuth, Germany (invitation Prof. Thomas Scheibel)

Roque ACA, A project story, Jornadas CICECO 2018: Living science together, 11-12th June 2018, University of Aveiro, Portugal.

Roque ACA, Pina AS, dos Santos R, Matos MB, Carvalho, AL, Affinity-based chromatographic & nonchromatographic approaches, PEGS Europe 2018, 16 November 2018, Lisbon, Portugal.

Roque ACA, Exploring molecular recognition in mimetic systems, Graphene CDT Advanced Technology Lectures, 15th June 2018, Cambridge, UK (invitation Prof. Andrea Ferrari).

Roque ACA, Artificial mimetic systems for molecular recognition in bioengineering, 16th Iberian Peptide Meeting & 4th ChemBio Group meeting, 5-7 February 2018, Barcelona, Spain.

Roque ACA, Designing biomimetics and smart-materials for recognition and capture of biologics, Bio|Nano|Med, 23-24 June 2016, CUNY Advanced Science Research Center, New York, US.

Roque ACA, Versatile affinity ligands for bioseparation processes, 8th Annual PEGS Europe, 3-4 November 2016, Lisbon, Portugal.

Roque ACA, Tailored synthetic affinity reagents, 5th International Iberian Biophysics Congress, 15-17 June 2016, Porto.

Roque ACA, Magnetically-Driven Hybrid Technologies for Antibody Purification, 7th Annual PEGS Summit Europe, 2-3 November 2015, Lisbon, Portugal.

Dias, AMGC, Iranzo, O, Roque, ACA, Human Pin1 WW Domain Scaffold Production and Applications, PEGS Europe, Lisbon, 3-7 November, 2014, Portugal.