

Biography

Director of the Research and Innovation Office of UCP.

Cortez holds a PhD in Applied Biotechnology by De Montfort University, UK (1999). He worked at Nottingham Trent University from 1999-2008 on the use of enzymes to modulate the properties of protein-based matrices. From 2008-12 he held a Ciência 2007 position at Universidade Nova de Lisboa, in the area of nanotechnology applications in biosensors and in textiles. His research involved collaboration with industry both in the UK and in Portugal, and the development of products and processes. In 2012, he became Head of INEB's Technology Transfer Office, with responsibilities as International Projects Officer. At i3S, he was the Head of the Research Funding Office at i3S between 2017-19 and coordinated the RESOLVE Programme. Research and Innovation Funding Advisor at CBQF from 2019-2023. He has participated in European projects since FP4, and more recently in projects such as H2020-ICT-30: MIRACLE, H2020-Twinning: STARGATE and H2020-SFS-01: RADIANT, HEI-EIT DIP4Agri, HE-CATALYSE.

Qualifications

PhD, De Montfort University

1 Mar 1996 → 14 May 1999

Award Date: 14 May 1999

Employment

Researcher

Centre for Biotechnology and Fine Chemistry (CBQF)

Universidade Católica Portuguesa

Portugal

1 Jan 2020 → 14 May 2025

Lecturer, Post-graduation: Management and Policies in Science and Technology

NOVA University Lisbon

Lisbon, Portugal

1 Aug 2019 → present

Research outputs

The catalyse project: catalysing scientific innovation into food safety action

Fonseca, D. R., Cortez, J. & Teixeira, P., Jul 2024. 1 p.

Translating ideas into commercial biomaterial devices: a path to improving healthcare

Brassesco, M. E., Cortez, J., Bayon, Y., Triacca, V., Payen, J. & Bayon, Y., 8 Apr 2024, In: ACS Biomaterials Science and Engineering. 10, 4, p. 1910-1920 11 p.

Proyecto ReCROP: mejorando la diversidad microbiana del suelo en agroecosistemas mediterráneos

Epelde, L., Anitua, A., Anza, M., Garbisu, C., Prieto-Fernández, Á., Martínez, M. C. M., Rodríguez-Garrido, B., Cepeda, C. T., González-Prieto, S., Cortet, J., Delcourt, N., Kadiri, N., Vergnes, A., Roussel, S., Blayac, T., Lavaine, E., Boularbah, A., Benidire, L., El Balghiti, F. Z. & Allani, M. & 19 others, Soufi, S., Bettaieb, T., Sahli, A., Semida, W. M., Abd El-Mageed, T. A., Abdulfattah, M. A., Alves, R., Oliveira, M., Santos, C., Tassi, E., Bretzel, F., D'Acqui, L. P., Pini, R., di Lonardo, S., Cortez, J., Cardoso, E., Moreira, H., Pereira, S. I. A. & Castro, P. M. L., 13 Dec 2022.

Proyecto ReCROP: mejorando la diversidad microbiana del suelo en agroecosistemas mediterráneos

Epelde, L., Anitua, A., Anza, M., Garbisu, C., Prieto-Fernández, A., Martínez, M. C. M., Rodríguez-Garrido, B., Cepeda, C. T., González-Prieto, S., Cortet, J., Delcourt, N., Kadiri, N., Vergnes, A., Roussel, S., Blayac, T., Lavaine, E., Boularbah, A., Benidire, L., El Balghiti, F. Z. & Allani, M. & 19 others, Soufi, S., Bettaieb, T., Sahli, A., Semida, W. M., Abd El-Mageed, T. A., Abdulfattah, M. A., Alves, R., Oliveira, M., Santos, C., Tassi, E., Bretzel, F., D'Acqui, L. P., Pini, R., di Lonardo, S., Cortez, J., Cardoso, E., Moreira, H., Pereira, S. I. A. & Castro, P. M. L., 13 Dec 2022.

Data management plan: deliverable 8.3 for the EU-H2020 funded project "Realising Dynamic Value Chains for Underutilised Crops" (RADIANT), under grant agreement No. 10100622

Santos, C. S., Silva, M. N. D., Pinto, E., Cortez, J. & Vasconcelos, M., 27 Jun 2022, European Commission. 17 p. (European Commission)(RADIANT project)

Risk management plan: deliverable 8.2

Santos, C. S., Silva, M. N. D., Pinto, E., Cortez, J. & Vasconcelos, M., 27 Jun 2022, European Commission. 13 p. (European Commission)(RADIANT - ReAlising Dynamlc vAlue chaiNs for underuTilised crops (101000622))

EPQ - requirement no. 3: deliverable 9.3 for the EU-H2020 funded project "Realising Dynamic Value Chains for Underutilised Crops" (RADIANT), under grant agreement no. 101000622

Santos, C. S., Nunes da Silva, M., Pinto, E., Cortez, J. & Vasconcelos, M., 28 Feb 2022, European Commission. 7 p. (European Commission)(RADIANT project)

POPD - requirement no. 2: deliverable 9.2 for the EU-H2020 funded project "Realising Dynamic Value Chains for Underutilised Crops" (RADIANT), grant agreement no. 101000622

Santos, C. S., Silva, M. N. D., Pinto, E., Cortez, J. & Vasconcelos, M. W., 17 Feb 2022, European Commission. 9 p. (European Commission)(RADIANT project)

H - requirement no. 1: deliverable 9.1 for the EU-H2020 funded project, realising dynamic value chains for underutilised crops' (RADIANT), grant agreement no. 101000622

Santos, C. S., Silva, M. N. D., Pinto, E., Cortez, J. & Vasconcelos, M., 30 Nov 2021, European Commission. 16 p. (European Commission)(RADIANT project)

STARGATE: sensors data training towards high-performance agrifood systems

Brassesco, M. E. (Other) & Cortez, J. (Other), Jun 2021

The interface of science: the case for a broader definition of research management

Agostinho, M., Moniz Alves, C., Aresta, S., Borrego, F., Borlido-Santos, J., Cortez, J., Lima Costa, T., António Lopes, J., Moreira, S., Santos, J., Trindade, M., Varela, C. & Vidal, S., 2 Jan 2020, In: Perspectives: Policy and Practice in Higher Education. 24, 1, p. 19-27 9 p.

Technical standards and legislation for implants and implantable medical devices

Vasconcelos, D. M., Cortez, J. & Lamghari, M., 2016, *Materials science and materials engineering*. Elsevier

Sintering of nanoscale silver coated textiles, a new approach to attain conductive fabrics for electromagnetic shielding

Kardarian, K., Busani, T., Osório, I., Domingos, H., Igreja, R., Franco, R. & Cortez, J., 15 Oct 2014, In: Materials Chemistry and Physics. 147, 3, p. 815-822 8 p.

Applications of nanotechnology in textiles

Cortez, J. R. M. G. M., 1 Jan 2013, *Nanotechnology: Diagnostics and therapeutics*. Navani, N. K. & Sinha, S. (eds.). Studium Press LLC, Vol. 7.

Activation of polymeric materials towards enzymatic postgrafting and cross-linking

Fatarella, E., Ciabatti, I. & Cortez, J., 10 Oct 2012, In: Enzyme and Microbial Technology. 51, 5, p. 252-257 6 p.

Incorporation of silver nanoparticles on textile materials by an aqueous procedure

Osório, I., Igreja, R., Franco, R. & Cortez, J., 15 May 2012, In: Materials Letters. 75, p. 200-203 4 p.

Influence of different pretreatments on the accessibility of transglutaminase and tyrosinase to wool fibre proteins

Lantto, R., Ellis, J., Fatarella, E. & Cortez, J., Jan 2012, In: Journal of the Textile Institute. 103, 1, p. 55-63 9 p.

Bionanoconjugates of tyrosinase and peptide-derivatised gold nanoparticles for biosensing of phenolic compounds

Cortez, J., Vorobieva, E., Gralheira, D., Osório, I., Soares, L., Vale, N., Pereira, E., Gomes, P. & Franco, R., Mar 2011, In: Journal of Nanoparticle Research. 13, 3, p. 1101-1113 13 p.

Production of chitin-glucan complex (CGC) from biodiesel industry byproduct

Chagas, B., Freitas, F., Mafra, L., Cortez, J., Oliveira, R. & Reis, M., Nov 2010, In: Journal of Biotechnology. 150, p. S381-S382 2 p.

Beverage brewing apparatus with pump dispensing system

Cortez, J. (Inventor), Fatarella, E. (Inventor), Nesti, S. (Inventor), Kokol, V. (Inventor) & Schroeder, M. (Inventor), 1 Sept 2010, (Refused/Withdrawn) Instituto Nacional da Propriedade Industrial, Patent No. WO2009019567, 1 Aug 2008, Priority date 3 Aug 2007, Priority No. ITMI20071611A

Plasma and electron-beam processes as pretreatments for enzymatic processes

Fatarella, E., Ciabatti, I. & Cortez, J., 5 Feb 2010, In: Enzyme and Microbial Technology. 46, 2, p. 100-106 7 p.

Enzymatically-modified melt-extruded guides for peripheral nerve repair

Chiono, V., Ciardelli, G., Vozzi, G., Cortez, J., Barbani, N., Gentile, P. & Giusti, P., Jun 2008, In: Engineering in Life Sciences. 8, 3, p. 226-237 12 p.

Method for enzymatic treatment of textiles such as wool

Griffin, M. (Inventor), Cortez, J. M. (Inventor) & Bonnes, P. (Inventor), 25 Oct 2007, (Refused/Withdrawn) IPC No. D06M16/00, C11D3/386, D06M16/00, United States Patent and Trademark Office, Patent No. US2003154555, 8 Jan 2003, Priority date 8 Jan 2003, Priority No. US33241003A

Transglutaminase mediated grafting of silk proteins onto wool fabrics leading to improved physical and mechanical properties

Cortez, J., Anghieri, A., Bonner, P. L. R., Griffin, M. & Freddi, G., 1 Jun 2007, In: Enzyme and Microbial Technology. 40, 7, p. 1698-1704 7 p.

CELL 131-Effect of various pre-treatments on the accessibility of target amino acids in wool fibre proteins to transglutaminase and tyrosinase

Cortez, J., Kulik, C., Ellis, J., Freddi, G., Lantto, R. & Heine, E., 25 Mar 2007, In: Abstracts of Papers of the American Chemical Society. 233, p. 797-797 1 p.

CELL 48-Plasma grafting of amino compounds enhances transglutaminase mediated cross-linking of wool fibres

Cortez, J., Fatarella, E., Lombardi, L. & Ciabatti, I., 25 Mar 2007, In: Abstracts of Papers of the American Chemical Society. 233, p. 800-800 1 p.

Method for enzymatic treatment of textiles such as wool

Griffin, M. (Inventor), Cortez, J. M. (Inventor) & Bonner, P. (Inventor), 1 Feb 2007, (Refused/Withdrawn) IPC No. D06M16/00, C11D3/386, D06M16/00, World Intellectual Property Organization, Patent No. WO0204739, 10 Jul 2001, Priority date 10 Jul 2000, Priority No. GB0016914A

Transglutaminase treatment of wool fabrics leads to resistance to detergent damage

Cortez, J., Bonner, P. L. R. & Griffin, M., 6 Apr 2005, In: Journal of Biotechnology. 117, 1, p. 379-386 8 p.

Application of transglutaminases in the modification of wool textiles

Cortez, J., Bonner, P. L. R. & Griffin, M., 5 Jan 2004, In: Enzyme and Microbial Technology. 34, 1, p. 64-72 9 p.

Textile treatment

Bishop, D. P. (Inventor), Cortez, J. M. (Inventor) & Ellis, J. (Inventor), 9 Aug 2002, (Accepted/In press) IPC No. D06B17/00, D06B3/10, D06M10/00, D06M16/00, World Intellectual Property Organization, Patent No. WO0153592A1, 22 Jan 2001, Priority date 22 Jan 2000, Priority No. GB0001388A

Using cellulases to improve the dimensional stability of cellulosic fabrics

Cortez, J. M., Ellis, J. & Bishop, D. P., Aug 2002, In: Textile Research Journal. 72, 8, p. 673-680 8 p.

The biotechnological applications of transglutaminases

Collighan, R., Cortez, J. & Griffin, M., Jun 2002, In: Minerva Biotechnologica. 14, 2, p. 143-148 6 p.

Cellulase finishing of woven, cotton fabrics in jet and winch machines
Cortez, J. M., Ellis, J. & Bishop, D. P., 23 Aug 2001, In: Journal of Biotechnology. 89, 2-3, p. 239-245 7 p.

Optimisation of the parameters for electroplating zinc on steel

Cortez, J. R. M. G. M., 1 Mar 1998, In: Corrosão e protecção de materiais.

The effect of cellulase treatment in textile washing processes

Cavaco-Paulo, A., Cortez, J. & Almeida, L., 1997, In: Journal of the Society of Dyers and Colourists. 113, 7-8, p. 218-222 5 p.

Activities

Stargate Conference

Brassesco, M. E. (Organiser) & Cortez, J. (Organiser)
4 Oct 2022

Centre for Biotechnology and Fine Chemistry (CBQF) (Organisational unit)

Barbosa, J. C. (Coordinator), Melo, A. (Coordinator), Vila-Real, C. (Member), Cassoni, A. C. (Member), Magalhães, D. D. S. (Member), Moreira, I. A. (Member), Figueiro, J. F. (Member), Marçal, S. (Member) & Cortez, J. (Coordinator)
Sept 2022 → ...

Funding (Bio)Products Research and Innovation

Cortez, J. (Speaker)
8 Jul 2022

Project Project Management, 2nd Edition

Cortez, J. (Keynote speaker)
1 Jun 2022 → 8 Jun 2022

Centre for Biotechnology and Fine Chemistry (CBQF) (Organisational unit)

Coscueta, E. (Coordinator), Silva, S. B. D. (Coordinator), Borges, S. C. F. (Member), Vaz-Moreira, I. (Member), Salsinha, A. S. (Member), Sousa, A. S. D. S. (Member), Boas, A. V. (Member), Bernardes, B. G. (Member), Dias, C. L. A. (Member), Silva, C. L. M. (Member), Araújo-Rodrigues, H. (Member), Pimentel, L. (Member), Coelho, M. (Member), Costa, R. (Member) & Cortez, J. (Chair)
Jun 2022 → ...

Innovative paths to shape tomorrow's Research Management training - opportunities for training on Research Management around the world

Cortez, J. (Invited speaker)
17 May 2022

Benefícios de uma boa gestão de projetos

Cortez, J. (Invited speaker)
10 May 2022

Importância de um plano de comunicação e disseminação coeso para sucesso dos projetos europeus H2020 – Twinning

Cortez, J. (Main Examiner) & Sanchez, A. (Supervisor)
19 Apr 2022

INSURE.Hub (External organisation)

Cortez, J. (Member)
Oct 2021 → ...

Research Project Management

Cortez, J. (Keynote speaker)
20 Jul 2021 → 21 Jul 2021

An analysis of Portuguese public policies for university patenting

Cortez, J. (Supervisor) & Vasconcelos, D. (Student)
2017

Tyrosinase-based phenol remediation

Cortez, J. (Supervisor), Silva, M. (Co-supervisor) & Gralheira, D. J. R. (Student)
2012

Importância de um plano de comunicação e disseminação coeso para sucesso dos projetos europeus H2020 – Twinning

Cortez, J. (Main Examiner)
Dec 2011

Preparação e caracterização de nanocompósitos de nanopartículas metálicas com proteínas e suas aplicações em biossensores

Gaspar, C. H. (Student), Águas, H. (Supervisor) & Cortez, J. (Co-supervisor)
2010

Sociedade Portuguesa de Química (External organisation)

Cortez, J. (Member)
2008 → ...

Awards

CROSSPATHS: Highway to Horizon Europe by pulling ERDF investments out of isolation through a tailored sequence of synergies

Pintado, M. M. (PI (Principal Investigator)), Costa, E. (Researcher) & Cortez, J. (Researcher)
1/06/24 → 31/05/26

Projects

3Boost: 3Boost - Transferência de Conhecimento em: Biotecnologia Agro-Alimentar, Biomedicina, e Bioinformática

Cardoso, E. (PI), Cortez, J. (CoPI), Rosa, N. (CoPI), Barros, M. (CoPI), Gomes, A. P. (Researcher), Silva, R. (Researcher), Duarte, A. S. (Researcher), Soares, E. (Researcher), Leite, C. (Researcher), Rei, N. (Researcher), Costa, S. (Researcher), Couto, P. (Researcher), Correia, A. (Researcher), Fonseca, P. (Researcher), Cardoso, M. (Researcher), Veiga, N. J. (Researcher), Noites, R. (Researcher), Moura, A. (Researcher), Correia, M. J. (Researcher), Vitoriano, B. R. D. C. (PI) & Sousa, D. (PI)
Programa Operacional Competitividade e Internacionalização
27/01/22 → 30/06/23

ReCROP: Bioinocula and CROPPing systems: an integrated biotechnological approach for improving crop yield, biodiversity and RESilience of Mediterranean agro-ecosystems

Castro, P. M. L. (PI), Pereira, S. (Researcher), Moreira, H. (Researcher), Cortez, J. (Other career/Public sector) & Vitoriano, B. R. D. C. (Researcher)
1/07/21 → 28/02/25

CATALYSE: Catalyse innovation in food systems

Teixeira, P. (CoPI), Cortez, J. (CoPI) & Fonseca, D. R. (Researcher)
1/01/24 → 31/12/26

DIP4Agri : Deep Tech Innovation Programme FOR AGRIfood

Pintado, M. M. (PI), Cortez, J. (CoPI), Cardoso, E. (Researcher), Hogg, T. (Researcher) & Silva, S. (Researcher)
1/05/23 → 31/07/24

CROSSPATHS: Highway to Horizon Europe by pulling ERDF investments out of isolation through a tailored sequence of synergies

Pintado, M. M. (PI), Costa, E. (Researcher), Cortez, J. (Researcher) & Bexiga, M. G. (Researcher)
1/06/24 → 31/05/26

CEECINST18-J. Cortez: Iniciativas em gestão de ciência para promoção de excelência e sustentabilidade

Cortez, J. (PI)
15/05/19 → 14/05/25

MIRACLE: Mid-infrared arthroscopy innovative imaging system for real-time clinical in depth examination and diagnosis of degenerative joint diseases

Cortez, J. (PI)
1/01/18 → 31/03/22

RADIANT: ReAlising Dynamlc vAlue chaiNs for underuTilised crops

Vasconcelos, M. (PI), Pinto, E. (Researcher), Santos, C. S. D. (Researcher), Silva, M. N. D. (Researcher) & Cortez, J. (Other career/Public sector)
European Commission
1/09/21 → 31/08/25

STARGATE: Sensors and daTA tRaininG towards high-performance Agri-food systEMs

Pintado, M. M. (PI), Vasconcelos, M. (CoPI), Cortez, J. (CoPI) & Brassesco, M. E. (Researcher)
European Commission
1/01/21 → 31/12/23

Beyond20: Support applications to H2020 and beyond

Cortez, J. (PI)
29/12/19 → 29/10/20

T4EU: Transform4Europe - European University Alliance

Gil, I. C. (PI), Hanenberg, P. (CoPI), Vasconcelos, I. (CoPI), Mendes Palma, F. (Project Coordinator), Lopes Cardoso, M. (Project Coordinator), Cortez, J. (Project Coordinator), Magno, S. (Project Manager) & villas-Boas, A. (Project Manager)
1/11/23 → 31/10/27