

Curriculum Vitae

Personal information



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Education

Dates 2011 → 2014
Title of qualification awarded **PhD Degree in Chemical and Biological Engineering (4 years)**
Name and type of organisation providing education and training University of Minho (Braga, Portugal)
Classification **Approved**

Dates 2009 → 2011
Title of qualification awarded **Master Degree in Textile Chemistry (2 years)**
Name and type of organisation providing education and training University of Minho (Guimarães, Portugal)
Classification 16

Dates 2003 → 2008
Title of qualification awarded **Degree in Biochemistry and Food Chemistry (4 years)**
Name and type of organisation providing education and training University of Aveiro (Portugal)
Classification 12

Internship Short-scientific mission under the field of COST action FP1405 – ActInPak (2017) “**Chitosan-genipin paper coating – an alternative approach for active packaging materials**”, Grenoble INP – Pagora, France, 5th March – 8th April.

Scientific production

Publications (citations according to Scopus data base in 31/07/2018)

- 9) [Idalina Gonçalves](#), Cláudia Nunes, Sónia Mendes, Lúcia O. Martins, Paula Ferreira and Manuel A. Coimbra (2017). “**CotA laccase-ABTS/hydrogen peroxide system: an efficient approach to produce active and decolorized chitosan-genipin films**”. *Carbohydrate Polymers*, 175: 628-635. (IF2017 = 5.158)
- 8) [Idalina Gonçalves](#), Ana Barra, Joana Lopes, Cláudia Nunes, Paula Ferreira, Manuel A. Coimbra (2017) “**POTATOPLASTIC: Desenvolvimento de bioplásticos a partir dos subprodutos da indústria de batata frita**”. *Química*. 41(145): 93 – 98.

- 7) Idalina Gonçalves, Carla Silva, Artur Cavaco-Paulo (2015). **"Ultrasound enhanced laccase applications"**. *Green Chemistry*, 17: 1362-1374. (IF2017 = 8.586, 16 citations)
- 6) Idalina Gonçalves, Cláudia M. Botelho, Ana Teixeira, Ana S. Abreu, Loïc Hilliou, Carla Silva, Artur Cavaco-Paulo (2015). **"Antimicrobial lubricant formulations containing poly(hydroxybenzene)-trimethoprim conjugates synthesized by tyrosinase"**. *Applied Microbiology and Biotechnology*, 99(10):4225-4235. (IF2017 = 3.340)
- 5) Idalina Gonçalves, Ana S. Abreu, Teresa Matamá, Artur Ribeiro, Andreia Gomes, Carla Silva, Artur Cavaco-Paulo (2015). **"Enzymatic synthesis of poly(catechin)-antibiotic conjugates: an antimicrobial approach for indwelling catheters"**. *Applied Microbiology and Biotechnology*, 99(2): 637-651. (IF2017 = 3.340, 6 citations)
- 4) Idalina Gonçalves, Victor Herrero-Yniesta, Iraxe Perales Arce, Monica Escrigas Castañeda, A. Cavaco-Paulo, C. Silva (2014). **"Ultrasonic pilot-scale reactor for enzymatic bleaching of cotton fabrics"**. *Ultrasonics Sonochemistry*, 21(4): 1535-1543. (IF2017 = 6.012, 18 citations)
- 3) Idalina Gonçalves, Madalena Martins, Ana Loureiro, Andreia Gomes, Artur Cavaco-Paulo, Carla Silva (2014). **"Sonochemical and hydrodynamic cavitation reactots for laccase/hydrogen peroxide cotton bleaching"**. *Ultrasonics Sonochemistry*, 21(2):774-781. (IF2017 = 6.012, 14 citations)
- 2) Idalina Gonçalves, Teresa Matamá, Artur Cavaco-Paulo, Carla Silva (2014). **"Laccase coating of catheters with poly(catechin) for biofilm reduction"**. *Biocatalysis and Biotransformation*, 32(1):2-12. (IF2017 = 1.270, 6 citations)
- 1) Idalina Gonçalves, Carla Silva, Artur Cavaco-Paulo (2012). **"Decolourization of paprika dye effluent with hydrogen peroxide produced by glucose oxidase"**. *Biocatalysis and Biotransformation*, 30(2):255-259. (IF2017 = 1.270, 1 citation)

Oral communications

- 11) Idalina Gonçalves, Joana Lopes, Gonçalo Oliveira, Liliana Pires, Cláudia Nunes, José Martinho Oliveira, Paula Ferreira, Manuel A. Coimbra (2018) **"Up-scaling bioplastics formulations: from solvent casting to extrusion and injection processes"**. 3rd International EPNOE Junior Scientists Meeting, Maribor, Slovenia.
- 10) Idalina Gonçalves, Charlene Reverdy, Stéphane Dufreney, Céline Martin, Cláudia Nunes, Paula Ferreira, Manuel A. Coimbra, Julien Bras (2017) **"Incorporation of cellulose nanocrystals into chitosan-genipin formulations: a step towards the production of an active paper"**. COST Action FP1405 Meeting: Application and Communication of Active and Intelligent Packaging, Judean Hills, Israel.
- 9) Idalina Gonçalves, Ana Barra, Joana Lopes, Cláudia Nunes, Paula Ferreira, Manuel A. Coimbra (2017) **"POTATOPLASTIC": Development of starch-based bioplastics using potato chips industry byproducts**. 12^a Reunião do Grupo de Glúcidos – GLUPOR'12, Aveiro, Portugal.
- 8) Idalina Gonçalves, Ana Barra, Cláudia Nunes, Paula Ferreira, Manuel A. Coimbra (2017) **"Designing biobased films using potato starch, oil, and waxes recovered from potato chip industry byproducts"**. 5th EPNOE International Polysaccharide Conference, Jena, Germany.
- 7) Idalina Gonçalves, Ana Barra, Cláudia Nunes, Manuel A. Coimbra, Paula Ferreira (March 2017) **"Biomaterials"**. Workshop at the ENEBiotechnology, Aveiro, Portugal.
- 6) Idalina Gonçalves, Cláudia Nunes, Sónia Mendes, Lúcia O. Martins, Manuel A. Coimbra, Paula Ferreira (2017) **"Active and transparent chitosan-genipin films: a promising approach for food packaging materials"**. MATERIAIS 2017, Aveiro, Portugal.

- 5) Idalina Gonçalves, Ana Barra, Cláudia Nunes, Manuel A. Coimbra, Paula Ferreira (2016) **"Renewable active food packaging using potato chip industry byproducts"**. COST Action FP1405 - Intelligent packaging and printed electronics. Bled, Slovenia.
- 4) Idalina Gonçalves, Ana Barra, Cláudia Nunes, Paula Ferreira, Manuel A. Coimbra (2016) **"Recovering starch, oils and waxes from potato chip industry byproducts: an alternative route for packaging production"**. XXII Encontro Luso-Galego de Química. Bragança, Portugal.
- 3) Idalina Gonçalves, Cláudia Nunes, Ana Barra, Paula Ferreira, Manuel A. Coimbra (2016) **"Bioplásticos produzidos a partir dos subprodutos da indústria de batata"**. Junior Chemistry Olympics at the University of Aveiro, Portugal.
- 2) Idalina Gonçalves; Cláudia Nunes; Paula Ferreira; Manuel A. Coimbra (2015) **"Decolorized chitosan-genipin films for active food packaging"**. 4th EPNOE International Polysaccharide Conference. Warsaw, Poland.
- 1) Idalina Gonçalves, Carla Silva, Artur Cavaco-Paulo (2014) **"Laccase/ultrasound system for cotton bleaching – an ultrasonic pilot scale reactor"**. IPFB 2014, Braga.

Posters

- 13) Joana Lopes, Idalina Gonçalves, Cláudia Nunes, Paula Ferreira, Manuel A. Coimbra (2018) **"Using phenolics from potato peels for the production of active starch-based films"**. 3rd International EPNOE Junior Scientists Meeting, Maribor, Slovenia.
- 12) Gonçalo Oliveira, Idalina Gonçalves, Cláudia Nunes, Paula Ferreira, Manuel A. Coimbra (2018) **"Incorporation of coffee silverskin in potato starch films"**. CICECO Journeys, University of Aveiro, Portugal.
- 11) Joana Lopes, Idalina Gonçalves, Cláudia Nunes, Paula Ferreira, Manuel A. Coimbra (2018) **"Enhancing surface mechanical and antioxidant properties of starch-based films using the phenolic extract recovered from potato peels"**. CICECO Journeys, University of Aveiro, Portugal.
- 10) Joana Lopes, Ana Barra, Diana Dias, Idalina Gonçalves, Cláudia Nunes, Sónia Mendo, Paula Ferreira, Manuel A. Coimbra (2017) **"Mechanical, antimicrobial and antioxidant assessment of starch-based films produced by reusing potato chips byproducts"**. Congresso de Microbiologia e de Biotecnologia – MICROBIOTEC17, Porto, Portugal.
- 9) Ana Barra, Idalina Gonçalves, Fatma Larbi, Joana Lopes, Diana Dias, Julien Bras, Sónia Mendo, Paula Ferreira, Manuel A. Coimbra (2017) **"Influence of deacetylated chitin nanocrystals crosslinked with genipin on mechanical, antioxidant and antimicrobial properties of starch-based films"**. Congresso de Microbiologia e de Biotecnologia – MICROBIOTEC17, Porto, Portugal.
- 8) M. Angélica M. Rocha, Idalina Gonçalves, Élia Maricato, Ângela Cunha, Ana Rodrigues, Osvaldo Amado, Joana Coimbra, Eduarda Pereira, Sónia Mendo, Paula Ferreira, José A. Lopes da Silva, Sílvia M. Rocha, Manuel A. Coimbra (2017) **"Biobased materials for beverages preservation: a zero additives approach"**. Research day, University of Aveiro, Portugal.
- 7) Cátia Cruz, Idalina Gonçalves, Cláudia Nunes, Paula Ferreira, José A. Lopes da Silva, Manuel A. Coimbra (2017) **"Genipin-protein complexes promote the plasticization and the hydrophobization of the starch-based films"**. 12^a Reunião do Grupo de Glúcidos – GLUPOR'12, Aveiro, Portugal.

- 6) Joana Lopes, Ana Barra, Idalina Gonçalves, Cláudia Nunes, Paula Ferreira, Manuel A. Coimbra (2017) **“Active packaging materials using starch, oil/waxes and phenolics recovered from potato chips industry byproducts”**. 12ª Reunião do Grupo de Glúcidos – GLUPOR’12, Aveiro, Portugal.
- 5) Rita Sardão, Idalina Gonçalves, Cláudia Nunes, Paula Ferreira, Manuel Coimbra (2017) **“Potato industry byproducts: an alternative source to extract starch and phenolic compounds suitable for active films production”**. 12ª Reunião do Grupo de Glúcidos – GLUPOR’12, Aveiro, Portugal.
- 4) Idalina Gonçalves, Ana Barra, Cláudia Nunes, Manuel A. Coimbra, Paula Ferreira (2016) **“Potato industry byproducts: an alternative biopolymers’ source for renewable packaging materials”**. CICECO Journeys, University of Aveiro, Portugal.
- 3) Diana Hernández, Idalina Gonçalves, Manuel A. Coimbra (2016) **“Genipin, a natural crosslinking agent for potato starch-based bioplastics”**. Biochemistry day@UA, University of Aveiro, Portugal.
- 2) Idalina Gonçalves, Ana Barra, Cláudia Nunes, Manuel A. Coimbra, Paula Ferreira (2016) **“Potato industry byproducts: an alternative biopolymers’ source for renewable packaging materials”**. XIII Encontro de Química dos Alimentos, Porto, Portugal.
- 1) Idalina Gonçalves, Teresa Matamá, Artur Cavaco-Paulo, Carla Silva (2014) **“Laccase coating of catheters with poly(catechin) for biofilm reduction”**. Oxizymes, Vienna, Austria.

Leadership on National Scientific Projects

- 2) “PLASTICOLIGHT – Cargas de baixa densidade para formulações plásticas” (POCI-01-0247-FEDER-033848), an I&DT project supported by Portugal2020 program in co-promotion between Isolago, a Portuguese plastic industry, and University of Aveiro (Portugal), with a total funding of **696.631,92 €**, being **322.894,41 €** attributed to the University of Aveiro, 36 months, will start in September 1st, 2018.
- 1) “POTATOPLASTIC” - Desenvolvimento de um composto bioplástico biodegradável à base dos subprodutos de batata” (POCI-01-0247-FEDER-017938), an I&DT project supported by Portugal2020 program in co-promotion between Isolago, a Portuguese plastic industry, and University of Aveiro (Portugal), with a total funding of **1.690.739,84 €**, being **353.860,96 €** attributed to the University of Aveiro, 36 months, started in November 1st, 2016 (ongoing).

Participation on National Scientific Projects

- 1) “Biopolímeros aplicados à embalagem de medicamentos” (VALORMED PI&D 2020), with a total funding for the University of Aveiro of **19.711,98 €**, 6 months, will start in January 1st, 2020.

Participation on European Projects

- 2) “NOVO” - Novel approaches for prevention of biofilms formed on medical indwelling devices, e.g. catheters (FP7-HEALTH-2011.2.3.1-5) at the University of Minho (Braga, Portugal).
- 1) “Cottonbleach” - Improved novel eco-friendly bleaching system for cotton using enzyme and ultrasound processes (FP7-SME-2008-2; 243529-2-cottonbleach) at the University of Minho (Braga, Portugal).

Local organization of scientific meetings

- 2) Materiais 2017. 9th – 12th April 2017. University of Aveiro. Portugal.
- 1) Hybrid Interfaces Cost Action MP1202 (HINT) - General Scientific workshop and Review Meeting. 10th – 12th October 2016. University of Aveiro. Portugal.

Reviewer of Scientific Papers

- 3) *Molecular Catalysis*, IF2017 = 4.211 – 1 paper (2018)
- 2) *Food Hydrocolloids*, IF2017 = 5.089 – 1 paper (2018)
- 1) *Carbohydrate Polymers*, IF2017 = 5.158 – 7 papers (2016, 2017, and 2018)

Examiner of Master Thesis

- 1) João Pedro Martins de Almeida e Silva (2018) “**Redução dos custos em matéria-prima na célula de insuflação de uma fábrica de embalagens plásticas**”, Universidade de Aveiro, Mestrado Integrado em Engenharia Mecânica.

Awards

- 1) Best lecture in 3rd International EPNOE Junior Scientists meeting (2018), sponsored by the Lenzing group with a travel grant of 500 €, Maribor, Slovenia (14 – 15th May)

Scientific Supervision

- 4) Elisabete Verde Martins Coelho, postdoctoral scholarship financed by POTATOPLASTIC project, March 2018 – ongoing.
- 3) Gonçalo Vieira Saraiva de Oliveira, master scholarship financed by POTATOPLASTIC project, November 2017 – ongoing.
- 2) Joana Filipa Martinho Lopes, master scholarship financed by POTATOPLASTIC project, November 2016 – ongoing.
- 1) Ana Filipa Cardoso Barra, master scholarship financed by POTATOPLASTIC project, November 2016 – October 2017.

Students' Supervision

- 6) Alexandre Vala (2018) “Potato peel: a filler or a plasticizer for starch films?”. Project of the 3rd year of the Biotechnology 1st Cycle, 12 ECTS, University of Aveiro. Portugal
- 5) Joana Pereira (2018) “CS3: Coffee SilverSkin for Starch films”. Project of the 3rd year of the Biotechnology 1st Cycle, 12 ECTS, University of Aveiro. Portugal

- 4) Cátia Sofia Dourado Cruz (2017) "GENIPINCHALLENGE - À procura da química nas reações de polimerização da genipina". Project of the 3rd year of the Biochemistry 1st Cycle, 14 ECTS, University of Aveiro. Portugal
- 3) Rita Ferreira Sardão (2017) "ACTIVEPACKAGING - Extração, caraterização e incorporação dos compostos fenólicos da casca de batata em bioplásticos à base de amido". Project of the 3rd year of the Biotechnology 1st Cycle, 12 ECTS, University of Aveiro. Portugal.
- 2) Sara Maria Teixeira Magalhães (2017) "HIGROPACK – Desenvolvimento de um bioplástico à base de amido com capacidade de absorver a humidade libertada pelos alimentos". Project of the 3rd year of the Biotechnology 1st Cycle, 12 ECTS, University of Aveiro. Portugal.
- 1) Diana Hernández Gonçalves Leitão (2016) "Genipina, um agente reticulante natural para bioplásticos à base dos subprodutos da indústria de batata". Project of the 3rd year of the Biochemistry 1st Cycle, 14 ECTS, University of Aveiro. Portugal.

Participation in students' class lectures

- 2) Lecture for the course Seminários de Bioquímica of the Biochemistry Master at the University of Aveiro, Portugal, entitled "**Biopolymers as food packaging materials**" (2016).
- 1) Lecture for the course of Current Issues in Genetics (DBio seminars) of the Molecular Genetics Master at the University of Minho, Braga, Portugal, entitled "**Biopolymers as food packaging materials**" (2016).

Other dissemination activities (expositions for general society)

- 3) Exposition at UA Open Campus 2018, University of Aveiro, Portugal with a stand entitled "**Dos resíduos agroalimentares aos bioplásticos - Uma estratégia para a redução da pegada ecológica**".
- 2) Exposition at Noite Europeia dos Investigadores 2017, Fábrica da Ciência Viva, Aveiro, Portugal with a stand entitled "**POTATOPLASTIC – dos resíduos da indústria de batata frita à produção de bioplásticos**".
- 1) Exposition at TechDays 2016, Parque de Exposições, Aveiro, Portugal, with a stand entitled "**Biorrefinaria: Novos Processos, Produtos Químicos e Materiais a Partir de Sub-Produtos Agroflorestais e Alimentares**".