

Victor Gomes Lauriano de Souza

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Victor Souza is a food engineer with expertise in food safety and food packaging. He holds a Ph.D. in Food Quality and currently works on the development of novel packaging materials based on biodegradable biopolymers derived from food byproducts to extend the shelf life of perishable itens.

“Through novel technologies it is possible to add value and quality to foodstuff, reducing food spoilage and contributing to a greener world with less petroleum-based packaging material”.

Employment history & experience

2021- current	Research fellow at International Iberian Nanotechnology Laboratory Food Processing Group Supervisor: Dr. Pablo Fuciños
2018- 2021	Post-doc fellow at Universidade Nova de Lisboa Project: MediOpuntia Supervisor: Dra. Ana Luisa Fernando
2008-2011	Food assurance supervisor at Minerva Foods
2007-2007	Food analysis laboratory intern at Fetzer Fiver Rivers Winery - USA

Education

2014- 2018	PhD in Food Quality Topic: Development of bionanocomposite based on chitosan/montmorillonite incorporated with natural extracts as active food packaging. Supervisor: Dra. Ana Luisa Fernando (MEtRiCS, DCTB-FCT/UNL) Co-supervisors: Dra. Maria Paula Duarte (MEtRiCS, DCTB-FCT/UNL); Dra. Isabel M. Coelho (LAQV-REQUIMTE, DQ-FCT/UNL)
2012 – 2014	MSc in Food Science and Technology Topic: Active packaging based on chitosan incorporated with bioactive extract from jaboticaba (<i>Myrciaria jaboticaba</i>): development, characterization and application. Supervisor: Dra. Nilda Soares de Fátima Soares.

	Co-supervisor: Dr. Paulo Cesar Stringheta UFV – Universidade Federal de Viçosa – Brasil
2003 – 2008	BSc in Food Engineering UFV – Universidade Federal de Viçosa – Brasil
<u>Public output from research and scholarly activity</u>	
a) Refereed Journal Publications	
<p>1- <u>Souza, Victor Gomes Lauriano</u>; João Ricardo Afonso Pires; Carolina Rodrigues; Isabel Maria Coelho; Ana Luisa Fernando. 2020. "Chitosan Composites in Packaging Industry—Current Trends and Future Challenges". <i>Polymers</i> 12 (2):417. http://dx.doi.org/10.3390/polym12020417.</p> <p>2- <u>Souza, V.G.L.</u>; Rodrigues, C.; Valente, S.; Pimenta, C.; Pires, J.R.A.; Alves, M.; Santos, C.; Coelho, I.M.; Fernando, A.L. 2020. "Eco-Friendly ZnO/Chitosan Bionanocomposites Films for Packaging of Fresh Poultry Meat". <i>Coatings</i> 10 (2): 110. http://dx.doi.org/10.3390/coatings10020110.</p> <p>3- João R.A. Pires; <u>Victor G.L. Souza</u>; Ana Luísa Fernando. 2019. "Valorization of energy crops as a source for nanocellulose production – Current knowledge and future prospects". <i>Industrial Crops and Products</i> 140: 111642-111642. https://doi.org/10.1016/j.indcrop.2019.111642.</p> <p>4- <u>Victor Gomes Lauriano Souza</u>; Carolina Rodrigues; Luana Ferreira; João Ricardo Afonso Pires; Maria Paula Duarte; Isabel Coelho; Ana Luisa Fernando. 2019. "In vitro bioactivity of novel chitosan bionanocomposites incorporated with different essential oils". <i>Industrial Crops and Products</i> 140: 111563-111563. https://doi.org/10.1016/j.indcrop.2019.111563</p> <p>5- <u>Victor Gomes Lauriano Souza</u>; João Ricardo Afonso Pires; Carolina Rodrigues; Patricia Freitas Rodrigues; Andréia Lopes; Rui Jorge Silva; Jorge Caldeira; et al. 2019. "Physical and Morphological Characterization of Chitosan/Montmorillonite Films Incorporated with Ginger Essential Oil". <i>Coatings</i>, 9(11), 700. https://doi.org/10.3390/coatings9110700</p> <p>6- <u>Souza, Victor Gomes Lauriano</u>; Pires, João R.A.; Vieira, Érica Torrico; Coelho, Isabel M.; Duarte, Maria Paula; Fernando, Ana Luisa. 2019. "Activity of chitosan-montmorillonite bionanocomposites incorporated with rosemary essential oil: From in vitro assays to application in fresh poultry meat". <i>Food ★ Hydrocolloids</i>, 89: 241-252. http://dx.doi.org/10.1016/j.foodhyd.2018.10.049</p>	
b) Book chapter	
<p>1- <u>Souza, Victor Gomes Lauriano</u>; João Ricardo Afonso Pires; Carolina Rodrigues; Isabel Maria Coelho; Ana Luisa Fernando. 2020. "Chapter 8 – Novel Approaches for Chitin/Chitosan Composites in Packaging Industry". In <i>Chitin and Chitosan-Based Biocomposites for Food Packaging Applications</i>, editado por Jissy Jacob; Sravanthi Loganathan; Sabu Thomas. Reino Unido: CRC Press -Taylor & Francis Group. https://doi.org/10.1201/9780429299605</p> <p>2- João R. A. Pires; <u>Victor Gomes Lauriano de Souza</u>; Ana Luisa Fernando. 2019. "Production of Nanocellulose from Lignocellulosic Biomass Wastes: Prospects and Limitations". 719-725. Springer International Publishing. https://doi.org/10.1007/978-3-319-91334-6_98.</p> <p>3- <u>Souza, Victor Gomes Lauriano</u>; Ribeiro-Santos, Regiane; Rodrigues, Patricia Freitas; Otoni, Caio Gomide; Duarte, Maria Paula; Coelho, Isabel M.; Fernando, Ana Luisa. 2018. "Nanomaterial Migration from Composites into Food Matrices". In <i>Composites Materials for Food Packaging</i>,</p>	

editado por Giuseppe Cirillo; Marek A. Kozłowski; Umile Gianfranco Spizzirri, 401-436. John Wiley & Sons, Inc.. <http://dx.doi.org/10.1002/9781119160243.ch13>.

a) Research supervision

PhD Research supervision

Currently supervising as second supervisor:

- João Pires (expected completion 2022)
- Carolina Rodrigues (expected completion 2022)

Master Research supervision

Current supervision

- 1 – Gaudêncio Semedo (expected completion 2020) (supervisor)
- 2 – Ana Sofia Augusto (expected completion 2021) (second supervisor)

Completed supervision as second supervisor of 3 master students and 11 graduation projects

References:

Dr. Ana Luisa Fernando
Assistant Professor
Faculdade de Ciências e Tecnologia – Universidade Nova de Lisboa
Campus Caparica - DCTB
Caparica – Setubal, Portugal
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Dr. Maria Paula Duarte
Assistant Professor
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Further references available upon request