

# Célia Fortuna Rodrigues

## PharmD, PhD

### ABOUT

PhD in Chemical and Biological Engineering, MSc in Pharmaceutical Sciences, BSc in Basic Pharmaceutical Sciences and BSc in Clinical and Public Health Analysis.

Current researcher of the University of Minho - Centre of Biological Engineering, integrating the Biofilm Group since 2013.

Work focused on *Candida* biofilms resistance to antifungal drugs and there pathophysiology development.

Working in research projects since 2006, in the fields of Microbiology, Mycology, Pharmacology, Biological Engineering, Medical Sciences/Biotechnology, Micro/Nanotechnology and Food Biotechnology.

Author and co-author of scientific papers, congresses publications and book chapters.

### WORK EXPERIENCE

2018 -

#### Post-Doctoral Researcher

Biofilm Group, Centre of Biological Engineering – University of Minho

Research activities regarding biofilms and help in coordination of Master Students projects.

2018 -

#### Science Communicator @ Nature Microbiology Community

Nature Group (Publishing)

Forum for the sharing and discussion of ideas and opinions about microbiology.

<https://naturemicrobiologycommunity.nature.com/>

<https://naturemicrobiologycommunity.nature.com/users/16248-celia-fortuna-rodrigues>

2017 -

#### FEMS Microbiology Events Taskforce Board

FEMS – Federation of European Microbiology Societies

Science communication volunteer. Microbiology events dissemination from Asia, Oceania and American continents (<https://www.fems-microbiology.org/>). Translation of projects/abstracts PT-EN/EN-PT (ALAM Project).

2014-2018

#### PhD Student (FCT SFRH/BD/93078/2013)

Biofilm Group, Centre of Biological Engineering – University of Minho

*Candida glabrata* biofilms: mechanisms of antifungal resistance and matrix role.

Assistance in other research projects and in coordination of Master Students projects.

2017 -2018

#### Science Communicator @ npj Biofilms and Microbiomes Community

Nature Group (Publishing)

Interactive online community that progress the journal's aim to host cross-disciplinary discussions and allows the understanding of mechanisms governing the social behaviour of microbial biofilm populations and communities, and

their impact on life, human health, and the environment, both natural and engineered.

<https://www.nature.com/npjbiofilms/community>

<https://npjbiofilmscommunity.nature.com/users/16248-celia-fortuna-rodrigues>

2017-2018

#### Visiting PhD Candidate

Immunobiology Group, Abel Salazar Institute of Biomedical Sciences and Institute for Innovation and Health Research (i35) - University of Porto

Project FCT SFRH/BD/93078/2013 - *Candida glabrata* biofilms: mechanisms of antifungal resistance and matrix role. - *in vivo* infection assays.

2017

#### Invited Professor

Universidade Europeia

Bioethics classes: general concepts and techniques, animal and human experiments, scope of the disciplines of Research Methodologies in the courses of Psychology and Sports Management.

✉ c.fortunae@gmail.com

☎ (+351) 918 652 757

🌐 www.rodriguescf.pt

📍 Vila Nova de Famalicão



### ACADEMIC EDUCATION

2014-2018

#### PhD in Chemical and Biological Engineering Escola de Engenharia, Universidade do Minho

Project FCT SFRH/BD/93078/2013 - *Candida glabrata* biofilms: mechanisms of antifungal resistance and matrix role.

- Biofilm Group, Centre of Biological Engineering – University of Minho
- Immunobiology Group, Abel Salazar Institute of Biomedical Sciences and Institute for Innovation and Health Research (i35) - University of Porto
- Institut National des Sciences Appliquées (INSA), Université Fédérale de Toulouse Midi-Pyrénées, France  
SCORE: Very Good

2004-2009

#### BSc+MSc in Pharmaceutical Sciences

CESPU - Instituto Universitário de Ciências da Saúde

Cédula Profissional da Ordem dos Farmacêuticos: 16932

SCORE: 16/20

2001-2004

#### BSc in Clinical Analysis and Public Health

ESSVA - Escola Superior de Saúde do Vale do Ave

BSc pre-Bologna

### SKILLS

YEAST AND BACTERIAL CULTURE (planktonic and biofilm form)

ANTIMICROBIAL SUSCEPTIBILITY TESTING

MOLECULAR BIOLOGY TECHNIQUES (PCR, REAL-TIME PCR)

HPLC, MALDI-TOF-TOF, ATR-FTIR

SEM, CONFOCAL MICROSCOPY, FLUORESCENCE MICROSCOPY

BIOCHEMICAL QUANTIFICATIONS ON BIOFILM MATRICES

FLOW CYTOMETRY ASSAYS

*in vivo* ASSAYS

### REFERENCES

Dr. Mariana Henriques - CEB, Universidade do Minho

Dr. Joana Azeredo - CEB, Universidade do Minho

Dr. Maria Olívia Pereira - CEB, Universidade do Minho

Dr. José Carlos Andrade - CICS, CESPU / ESB, U. Católica

## ORGANIZATIONAL COMPETENCES

**Certified Trainer by the Scientific-Pedagogical Council of Continuing Education, with the Registry nº. CCPFC/RFO-30418/11.**

2013-2018

### MSc Students Monitor

**Centre of Biological Engineering – University of Minho From the Candida Research Group:**

- Liliana Fernandes (2016/2017) - "Alternative Strategies to Fight *Candida* Biofilms"
- Eduarda Patrícia Silva Ramos (2013/2014) - "*Candida glabrata* Biofilms: resistance to antifungal agents and protein profile".
- Tânia Patrícia Martins Fernandes (2013/2014) - "*Candida tropicalis* biofilms evaluation of virulence and resistance to antifungal drugs."
- Bruna Fernandes Gonçalves (2012/2013) - "*Candida glabrata* biofilms resistance to voriconazole."
- Diana Margarida Ferraz Bogas (2012/2013) - "Resistance of *Candida glabrata* biofilms at different concentrations of amphotericin B".

### OTHER BIOFILMS RESEARCH GROUPS

Collaboration with other biofilms groups, assisting master's students in developing and implementing laboratory research techniques in very specific areas of their research (e.g. HPLC, antifungal susceptibility implementation techniques)

**From the Bacteriophage Group (headed by Dr. Joana Azeredo):**

- Jéssica Silva Sousa (2016/2017) - "Evaluation of the antimicrobial activity of a bacteriophage honey formulation in *ex vivo* skin models"
- Rute Ferreira (2016/2017) - "Development of a phage-based bioactive wound dressing to control chronic wounds"
- Henrique Gonçalves Ribeiro (2015/2016) - "Developing an antimicrobial product with Portuguese honey and bacteriophages"

**From the group headed by Dr. Maria Olívia Pereira:**

- Patrick Borges (2017/2018) – "Desenvolvimento de uma estratégia de revestimento para a prevenção de infeções associadas a próteses ortopédicas".
- Ana Teresa Vaz (2016/2017) - "Catheters functionalization using a surface modification strategy based on the adherence of mussels"

2013-2018

**Monitor of the students from Braga primary and secondary schools during "Semana da Ciência e Tecnologia" and "Semana da Engenharia"**

CEB / School of Engineering – University of Minho

2008/2009

**Delegate of the 5th academic year of Pharmaceutical Sciences at the Scientific-Pedagogical Counseling of IUCS.**

CESPU - Instituto Universitário de Ciências da Saúde

## LANGUAGES

■ ORAL ■ READ ■ WRITTEN

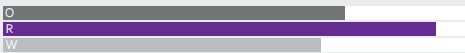
### PORTUGUESE (NATIVE)



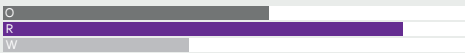
### ENGLISH



### FRENCH



### SPANISH



### ITALIAN



### CHINESE (MANDARIN)



## WORK EXPERIENCE

2016

### Visiting PhD Candidate

L'Ingénierie des Systèmes Biologiques et des Procédés (LISBP), Laboratory of Physiology and Functional Genomics of Eukaryotes, Institut National des Sciences Appliquées (INSA), Université Fédérale de Toulouse Midi-Pyrénées, France

Project FCT SFRH/BD/93078/2013 - *Candida glabrata* biofilms: mechanisms of antifungal resistance and matrix role – HPLC techniques to determine *C. glabrata* biofilm matrices composition.

2014

### Tutor of practical classes

**Biofilm Group, Centre of Biological Engineering – University of Minho.**

IV Advanced Practical Course on Biofilms Science

2013 -2014

### Research Assistant

**Biofilm Group, Centre of Biological Engineering – University of Minho.**

Project: Mechanisms of *Candida glabrata* biofilms tolerance to antifungal agents - FCT PTDC/SAU-MIC/119069/2010 Assistance in other projects and in coordination of Master Students projects.

2011 -2012

### Voluntary Research Fellow

**Centre of Research in Health Sciences (CICS/CESPU) – IUCS**

Bioencapsulation: micro e nanoencapsulation, HPLC, *Bifidobacterium*, Caco-2 e HT-29 cell cultures.

2009-2011

### Coordinator Pharmacist

**Farmácia Almeida e Sousa (Community Pharmacy), Riba d'Ave, V.N. Famalicão.**

General service to patients, control of the precision of the prescription / billing;  
 Coordination / general management of the pharmacy: inventory, human resources;  
 Legal control of narcotic drugs and psychotropic substances;  
 Implementation and monitoring of methadone substitution program;  
 Marketing and merchandising of pharmacy;  
 Organization of health events inside and outside of the pharmacy:  
 Internal employees training:  
 - Health / Hygiene at Work: Smoking Cessation, Dyslipidemias, Cardiovascular Risk Factors, Vaccine Against Flu, Chronic Venous Disease, Fungal Infections, Hygiene and Safety Care in the Laboratory of Medicinal Products, Skin and Sun. Note: this last training was also given annually in primary schools and nursing homes in the local pharmacy.  
 - Marketing in Pharmacy: value creation for the customer of the pharmacy, marketing of the Pharmaceutical Services and in the management of the space of the Pharmacy and marketing in the techniques of sale (communication in marketing).  
 Primary schools training events - "Cuidados com o Sol", "Parasitas Externos": Escola Primária em Riba d'Ave  
 Senior homes training events - "Cuidados com o Sol", "Vacinação da Gripe": Lares Castelões e Guardizela (Riba d'Ave).

2006-2009

### Invited Research Fellow

**Centre of Research in Health Sciences (CICS/CESPU) – IUCS**

"Microencapsulation of probiotic bacteria to enhance survival during upper gastrointestinal tract passage" 1F/10/2005/CESPU e "Protection of bifidobacteria encapsulated in polysaccharide-whey protein microspheres against simulated gastric juice" refa AL/14/2006/CESPU. (Supervisor: Dr. José Carlos Andrade)

2009

### Intern Hospital Pharmacist

**Hospital Pedro Hispano, Porto**

Control of the medical prescriptions from the several hospital services;  
 Drugs distribution and general service to patients;  
 Production of parenteral nutrition, chemotherapeutic drugs and other drugs;  
 Control of drugs inventory;  
 Participation on the Technical Commissions meetings (Farmácia e Terapêutica, Infecção Hospitalar).

2009

### Intern Pharmacist

**Farmácia da Estação (Community Pharmacy), V.N. Famalicão**

2008

### Intern Pharmacist

**Farmácia Central (Community Pharmacy), V.N. Famalicão**

2003

### Intern Clinical and Public Health Analysis Technician

**Hospital de S. João, Porto**

## SPECIALIZATION COURSES

2017

### "Focus on Peer Review" – Nature Masterclasses

Nature Research (Group)

Online Course main contents: - Your Role as Peer Reviewer / - The Peer Review Report / - Ethics in Peer Review / - Variations and Innovations in Peer Review.

2016

### "Proteome 2 Gene 2 Protein"

Engineering School, University of Minho

Hands-on-Course: Proteomic methodologies; Two-dimensional gel electrophoresis; Protein identification by mass spectrometry; Recombinant protein production and purification.

2016

### Laboratory Animal Science Course

Life and Health Sciences Research Institute (ICVS), School of Sciences, University of Minho

Appropriate use of animals in scientific experiments. [FELASA Cat. C](#)

Theoretical and practical course: biology and husbandry of laboratory animals, aspects of microbiology and disease, health hazards and safe practices in the animal house, the design and conduct of animal experiments, anaesthesia, analgesia and experimental procedures, as well as the ethical and legal aspects of animal experimentation and alternatives to animal use.

The course programme follows European recommendations and covers compulsory training required for persons of all functions stated in Article 23 of Directive 2010/63/EU (including national legislation) or functions stated in Artigo 310 (2- a,b,c and d) of Decreto-Lei n.º 113/2013 of 7th august. Additional training on anesthesia and principles of surgery is also included. Course criteria defined by the national authority - Direção Geral de Alimentação e Veterinária - was also fulfilled.

2014

### Post-Graduation ESCMID and ECDC - Antimicrobial Susceptibility Testing and Surveillance Workshop

ESCMID - European Society of Clinical Microbiology and Infectious Diseases

Institut für Hygiene, Mikrobiologie und Tropenmedizin, analyse BioLab, Elisabethinen, Linz, Austria

EUCAST breakpoint, PK/PD approach.

Guidelines to perform antimicrobial susceptibility testing (EUCAST/CLSI).

Importance of epidemiological cut-off values (ECOFFs), clinical breakpoints in antimicrobial resistance surveillance systems.

2012

### Mouse and Rat Colony Management (Wildtype and Transgenic) Workshop

Cellular and Molecular Biology Institute (IBMC) – University of Porto

Development of skills related to colonies of rats and mice: basic concepts of genetics, basic principles of breeding and feeding; improvement schemes colonies; mice and genetically modified mice: types, applications and management of colonies.

2011

### FRAME Course – Reduction Steering Committee Training School in the Experimental Design and Statistical Analysis of Biomedical Experiments

FRAME – Fund for Replacement of Animals in Medical Experiments – London, UK

Cellular and Molecular Biology Institute (IBMC) – University of Porto.

Developing skills for implementation and improvement of experimental methods (manipulation, statistical) to decrease the need for laboratory animals, as well any distress caused in medical and scientific research. Perspectives in Laboratory Animal Science – discussion of aspects of lab animal use. Alternatives to Laboratory Animals.

2009-2010

### Pharmaceutical Care Post-Graduation Program on DIABETES MELLITUS

School of Post-Graduation in Health and Management – Associação Nacional das Farmácias (Porto)

Pharmacotherapeutic monitoring of chronically ill patients

2009-2010

### Pharmaceutical Care Post-Graduation Program on DYSLIPIDEMIA

School of Post-Graduation in Health and Management – Associação Nacional das Farmácias (Porto)

Pharmacotherapeutic monitoring of chronically ill patients

2009-2010

### Pharmaceutical Care Post-Graduation Program on HYPERTENSION

School of Post-Graduation in Health and Management – Associação Nacional das Farmácias (Porto)

Pharmacotherapeutic monitoring of chronically ill patients

2009-2010

### Pharmaceutical Care Post-Graduation Program on ASTHMA AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE

School of Post-Graduation in Health and Management – Associação Nacional das Farmácias (Porto)

Pharmacotherapeutic monitoring of chronically ill patients

## GRANTS AND AWARDS

12.2017

AWARD

Golden CEB-onion-Awards: 2017 Paper with most pages

Centre of Biological Engineering – University of Minho

09.2017

GRANT

ESCMID Attendance Grant

Eurobiofilms Congress - Amsterdam, The Netherlands

06.2015

GRANT

FEMS Young Scientist Meeting Grant

6th Congress of European Microbiologists - Maastricht, The Netherlands

06.2015

GRANT

Materials Transfer Agreement Program, Ref:

MTR18401.02 - liposomal amphotericin B

Gilead Sciences, Inc. - Foster City, USA

09.2014

GRANT

ESCMID Attendance Grant – 3rd Workshop on Antimicrobial Susceptibility Testing

Linz, Austria

05.2014 - 05-2018

GRANT

PhD Grant. Ref: SFRH/BD/93078/2013

Fundação para a Ciência e Tecnologia - Portugal

09.2014

GRANT

Provision of Materials Program, Ref: PMA201404 – micafungin

Astellas Pharma, Inc. - Obaraki, Japan

01.2014

GRANT

Merck Investigator Studies Program, Ref:

MISP51371 - caspofungin and posaconazole

Merck Sharp & Dohme Corp. - New Jersey, USA

05.2013

GRANT

Pfizer Investigator Initiated Research, Ref:

PF-00579955 – voriconazole

Pfizer, Inc New York, USA

05.2013

GRANT

Pfizer Investigator Initiated Research, Ref:

PF-00345508 - fluconazole

Pfizer, Inc - New York, USA

10.2010

AWARD

Best Student of the Master in Pharmaceutical Sciences 2004/2009

CESPU - Instituto Universitário de Ciências da Saúde

09.2010

AWARD

"Sociedade Farmacêutica Lusitana" Award for the Best Portuguese Pharmaceutical Sciences Student

Ordem dos Farmacêuticos - Lisboa, Portugal

**Microbial Pathogenesis**

Elsevier

**PLoS One**

PLoS | Public Library of Science

**Microorganisms**

MDPI

**Journal of Fungi**

MDPI

**Materials**

MDPI

**Medical Science Monitor**

International Scientific Information

**Malaysian Journal of Medical Sciences**

Universiti Sains Malaysia

**Infectious Disorders – Drug Targets**

Bentham Science

**Medical Sciences**

MDPI

## GUEST EDITOR OF SPECIAL ISSUES

2018

Current Medicinal Chemistry

Bentham Science

**Special Issue: "Alternatives approaches to treat biofilms infections"**

Editors: Célia Fortuna Rodrigues and Mariana Henriques

## AFFILIATIONS AND MEMBERSHIPS

**Ordem dos Farmacêuticos**

Cédula Profissional n.º 16932

**Federation of European Microbiological Societies**

Member

**European Society of Clinical Microbiology and Infectious Diseases**

Member

**Sociedade Portuguesa de Microbiologia**

Member

**Sociedade Portuguesa de Bioquímica**

Member

## SUBMITTED:

2018

**The MNN2 gene knockout modulates the antifungal resistance of biofilms of *Candida glabrata***  
[Rodrigues, CF](#); Vilas Boas, D; Haynes, K; Henriques, M.**Association of posaconazole and amphotericin B in the treatment of biofilms of *Candida glabrata***  
[Rodrigues, CF](#); Alves, D; Henriques, M.**Inflammatory cell recruitment in *Candida glabrata* biofilm cells-infected mice receiving antifungal chemotherapy**  
[Rodrigues, CF](#); Costa, AC; Vilanova, M; Henriques, M.***Candida* spp. Infections in patients with diabetes mellitus**  
[Rodrigues, CF](#); Rodrigues, ME; Henriques, M.

## PUBLISHED:

2018

Current Medicinal Chemistry

**Promising therapeutics for *Candida* oral biofilms' infections**[Rodrigues, CF](#); Rodrigues, ME; Henriques, M.

doi: 10.2174/0929867325666180601102333

Biofouling

**Susceptibility of *Candida glabrata* biofilms to echinocandins: alterations on the matrix composition**[Rodrigues, CF](#); Rodrigues, ME; Henriques, M.

doi: 10.1080/08927014.2018.1472244

Genes

**Portrait of matrix genes expression in *C. glabrata* biofilms with stress induced by different drugs**[Rodrigues, CF](#); Henriques, M.

doi: 10.3390/genes9040205

2017

Pathogens

**Liposomal and Deoxycholate Amphotericin B Formulations: Effectiveness against Biofilm Infections of *Candida* spp.**[Rodrigues, CF](#); Henriques, M.

doi: 10.3390/pathogens6040062

Biofouling

**The carboxylic acid transporters Jen1 and Jen2 affect the architecture and fluconazole susceptibility of *Candida albicans* biofilm in the presence of lactate**Alves, R; Mota, S; Silva, S; [Rodrigues, CF](#); Brown, AJP; Henriques, M; Casal, M; Paiva, S.

doi: 10.1080/08927014.2017.1392514

Frontiers in Microbiology

**Synergistic Antimicrobial Interaction between Honey and Phage against *Escherichia coli* Biofilms**Oliveira, A; Ribeiro, H; Silva, AC; Silva, D; Sousa, J; [Rodrigues, CF](#); Melo, LDR; Sillankorva, S.

doi: 10.3389/fmicb.2017.02407

Mycopathologia

**The effectiveness of voriconazole in therapy of *C. glabrata*'s biofilms oral infections and its influence on the matrix composition and gene expression**[Rodrigues, CF](#); Gonçalves, B; Rodrigues, ME; Silva, S; Azeredo, J; Henriques, M.

doi: 10.1007/s11046-017-0135-7

Journal of Fungi

***Candida glabrata* Biofilms: How Far Have We Come?**[Rodrigues, CF](#); Rodrigues, ME; Silva, S; Henriques, M.

doi: 10.3390/jof3010011

Journal of Fungi

***Candida* Species Biofilms' Antifungal Resistance**Silva, S; [Rodrigues, CF](#); Araújo, D; Rodrigues, ME; Henriques, M.

doi: 10.3390/jof3010008

Therapeutic Advances in Infectious Disease

**Oral mucositis caused by *Candida glabrata* biofilms: failure of the concomitant use of fluconazole and ascorbic acid**[Rodrigues, CF](#); Henriques, M.

doi: 10.1177/2049936116684477

2016

Letters in Applied Microbiology

***Candida glabrata*'s recurrent infections: biofilms formation during Amphotericin B treatment**[Rodrigues, CF](#); Silva, S; Azeredo, J; Henriques, M.

doi: 10.1111/lam.12600

## PUBLICATIONS

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2015

Mycopathologia

**Detection and Quantification of Fluconazole Within *Candida glabrata* Biofilms**

[Rodrigues, CF](#); Silva S; Azeredo J; Henriques M.

doi: 10.1007/s11046-015-9862-9

2014

European Journal of Clinical Microbiology & Infectious Diseases

***Candida glabrata*: a review on its features and resistance**

[Rodrigues, CF](#); Silva S; Henriques M.

doi: 10.1007/s10096-013-2009-3

Biofouling

**Effects of fluconazole in *Candida glabrata* biofilms and its relation with transporters genes expression**

Fonseca E, Silva S, [Rodrigues CF](#), Alves CT, Azeredo J, Henriques M.

doi: 10.1080/08927014.2014.886108

2013

Current Medicinal Chemistry

**Drug-delivery systems of green tea catechins for improved stability and bioavailability**

[Rodrigues, CF](#); Ascensão K, Silva FAM, Sarmento B, Oliveira MBPP, Andrade JC.

2013;20(37):4744-57

## PUBLICATIONS IN PROCEEDINGS OF SCIENTIFIC MEETINGS

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2017

**MNN2 gene affects drug resistance on *C. glabrata*'s biofilms**

[Rodrigues, CF](#); Rodrigues, ME; Aimes, L; Haynes K; Henriques, M.

Eurobiofilms 2017 - Amsterdam, The Netherlands, September 19-22.

**Natural honey to fight *Candida* infections**

Rodrigues, ME; Fernandes, L; [Rodrigues, CF](#); Oliveira A; Henriques, M.

Eurobiofilms 2017 - Amsterdam, The Netherlands, September 19-22.

**Portrait of gene expression in *C. glabrata* with stress induced by drugs**

[Rodrigues, CF](#); Rodrigues, ME; Henriques, M.

Eurobiofilms 2017 - Amsterdam, The Netherlands, September 19-22.

**Synergistic antimicrobial interaction of honey and bacteriophage in *Escherichia coli* biofilms**

Ribeiro, H; Oliveira, O; Silva, AC; Silva, MD; Sousa, JD; [Rodrigues, CF](#); Melo, L; Henriques, A; Sillankorva, S.

I CEB Annual Meeting 2017 - Braga, Portugal, July 7th.

**Novel strategies to fight *Candida* infections: Natural honey**

Rodrigues, ME; Fernandes, L; [Rodrigues, CF](#); Oliveira A; Henriques, M.

I CEB Annual Meeting 2017 - Braga, Portugal, July 7th.

**Synergistic antimicrobial interaction of honey and bacteriophage in *Escherichia coli* biofilms**

Ribeiro, H; Oliveira, O; Silva, AC; Silva, MD; Sousa, JD; [Rodrigues, CF](#); Melo, L; Henriques, A; Sillankorva, S.

I Simpósio de Bioquímica, Braga, Portugal, May 30-31.

**Synergistic antimicrobial interaction of honey and bacteriophage in *Escherichia coli* biofilms**

Ribeiro, H; Oliveira, O; Silva, AC; Silva, MD; [Rodrigues, CF](#); Melo, L; Henriques, A; Sillankorva, S.

X National Meeting of Biochemistry Students (X ENEBIOQ), Braga, Portugal, April 7-10.

2016

**Impact of alternative carbon sources and antifungal treatment on *Candida glabrata* biofilms' transcription profile**

Alves, R; Kastora, S; Pinho, E; [Rodrigues, CF](#); Silva, S; Casal, M; Brown, AJ; Henriques, M; Paiva, S.

XIX National Congress of Biochemistry, Guimarães, Portugal, Dec 8-10.

**The chemical structure of the biofilm matrices of *Candida glabrata* induce resistance to antifungal drugs**

[Rodrigues, CF](#); Rodrigues, ME; Silva, Sónia C.; Azeredo, J; Henriques, M.

Biofilms 7 - Microbial Works of Art, Porto, Portugal, June 26-28.

2015

**How do *C. glabrata*'s biofilms respond to antifungal drugs?**

[Rodrigues, CF](#); Rodrigues, ME; Silva, S; Henriques, M.

7th Trends in Medical Mycology. Vol. Mycoses 58(Suppl. 4), Lisbon, Portugal, 9-12 Oct, 70.

## BOOK CHAPTERS

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**Clinical Biofilms – Current Concepts and Advanced Techniques**

M.O. Pereira, M. Henriques, N. Cerca, J. Azeredo.

Departamento de Engenharia Biológica, Universidade do Minho, Portugal

2014. ISBN: 978-989-97478-4-5, 173-192

**"Analysis of biofilm metabolites"**

Almeida, C; [Rodrigues, CF](#); Jorge, P; Costa, AR.

**Encyclopedia of Biomedical Polymers and Polymeric Biomaterials**

Editor Dr. Munmaya Mishra

Taylor & Francis, New York, USA.

CRC Press; ISBN-10: 1439898553. Taylor & Francis; ISBN-10: 1439898790, 2015.

**"Pectin"**

[Rodrigues, CF](#); Faria, L; Andrade, JC.

**Encyclopedia of Biomedical Polymers and Polymeric Biomaterials**

Editor Dr. Munmaya Mishra

Taylor & Francis, New York, USA.

CRC Press; ISBN-10: 1439898553. Taylor & Francis; ISBN-10: 1439898790, 2015.

**"Milk Proteins"**

[Rodrigues, CF](#); Andrade, JC.

**Encyclopedia of Biomedical Polymers and Polymeric Biomaterials**

Editor Dr. Munmaya Mishra

Taylor & Francis, New York, USA.

CRC Press; ISBN-10: 1439898553. Taylor & Francis; ISBN-10: 1439898790, 2015.

**"Gellan"**

[Rodrigues, CF](#); Andrade, JC.

**Encyclopedia of Biomedical Polymers and Polymeric Biomaterials**

Editor Dr. Munmaya Mishra

Taylor & Francis, New York, USA.

CRC Press; ISBN-10: 1439898553. Taylor & Francis; ISBN-10: 1439898790, 2015.

**"Soy Proteins"**

[Rodrigues, CF](#); Andrade, JC.

## ORAL COMMUNICATIONS

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Dec 8-10. 2016.

**Lactic acid increases the susceptibility of *Candida albicans* to fluconazole**

Alves, R; Mota, S; Silva, S; [Rodrigues, CF](#); Brown, AJ; Henriques, M; Casal, M; Paiva, S.

XIX National Congress of Biochemistry, Guimarães, Portugal

June 21-23. 2016.

**In vitro study of antifungal drug effect in a tissue conditioner**

Assunção, BM; Henriques, M; [Rodrigues, CF](#); Vaz, P; Figueiral, H; Braga, AC; Fernandes, S.

IV International Conference on Biomedical Engineering, Porto, Portugal

June 7-11. 2015.

***Candida glabrata* biofilms response to amphotericin B**

[Rodrigues, CF](#); Silva, Sónia, C.; Salgado, JM; Abrunhosa, L; Venâncio, A; Azeredo, J; Henriques, M.

FEMS - 6th Congress of European Microbiologists, Maastricht, The Netherlands

PhD

**Candida glabrata biofilms: mechanisms of antifungal resistance and matrix role**

Rodrigues CF. 2018, Universidade do Minho

BSc

**Dislipidemias: Estudo de uma População Portuguesa com Dislipidemias / Study of a Portuguese Population with Dyslipidemia**

Rodrigues CF. 2004, Escola Superior de Saúde do Vale do Ave

**Fluconazole vs Voriconazole: *Candida glabrata*'s biofilms response to different azoles**

Rodrigues, CF; Gonçalves, B; Rodrigues, ME; Silva, S; Azeredo, J; Henriques, M.  
7th Trends in Medical Mycology. Vol. Mycoses 58(Suppl. 4), Lisbon, Portugal, 9-12 Oct, 78-78.

2014

**Antifungal agents induce alteration in the matrix composition of *Candida glabrata* biofilms**

Rodrigues, CF; Fonseca, E; Gonçalves, B; Bogas, D; Silva, S.; Azeredo, J; Henriques, M.  
Biofilms 6 - International Conference on Microbial Biofilms. Vienna, Austria, May 11-13.

2013

**Effect of azoles in *Candida glabrata* biofilms and its relation with ERG genes expression**

Rodrigues, CF; Silva, SC; Azeredo, J.; Gonçalves, B; Henriques, M.  
MICROBIOTEC '13 - Portuguese Congress of Microbiology and Biotechnology, Aveiro, Portugal, December 6-8.

**Influence of glucose on *Candida parapsilosis* virulence factors**

Pereira, L.P.; Silva, S.C.; Ribeiro, Bruno; Rodrigues, CF; Henriques, M.; Azeredo, J.  
MICROBIOTEC '13 - Portuguese Congress of Microbiology and Biotechnology, Aveiro, Portugal, December 6-8.

2011

**Micro and nanoencapsulation of EGCG for chemoprevention and co-therapy of colorectal cancer (Review)**

Rodrigues CF, Andrade JC, Sarmiento B, Oliveira B.  
XIX International Conference on Bioencapsulation, Amboise, France, October 5-8.

**Group career counseling: a methodology for vocational intervention in adolescents**

Faria, L; Rodrigues, CF.  
EDULEARN11, 3rd annual International Conference on Education and New Learning Technologies, Barcelona, Spain, July 4-6.

**Relationships between organizational citizenship behaviors and job satisfaction in portuguese public administration**

Faria, L; Rodrigues, CF.  
EDULEARN11, 3rd annual International Conference on Education and New Learning Technologies, Barcelona, Spain, July 4-6.

2008

**Alginate-whey protein microspheres for bifidobacteria protection against acidic conditions**

Andrade JC; Rodrigues CF; Cardoso C; Ribeiro AJ.  
International Functional Foods Conference, Porto, Portugal, May 7-8.

2007

**Microencapsulation of *Bifidobacterium longum* by an emulsification/internal gelation method and evaluation of survival in simulated gastric juice**

Andrade JC; Rodrigues CF; Cardoso C; Ribeiro AJ.  
Microbiotec'07- XXXIII JFG, Lisboa, Portugal, November 30-December 2.

CONTINUING EDUCATION

- **Curso de Venda Associada Online**, Servier®, July, 2017, Creditado pela Ordem dos Farmacêuticos
- **Microscopia Electrónica de Varrimento** – Dias de Sousa, SA e TESCAN, Departamento de Química, Universidade do Minho, Braga, 17th February 2017;
- **Envelhecimento**, Boots®, Serum7, Hotel Porto Palácio, Porto, 16th May 2016;
- **Slow Age**, Vichy®, Estádio do Dragão, Porto, 12th May, 2016;
- **Parasitas externos dos animais de companhia**, Coopprofar, Gondomar, 1st April, 2014;
- **A nova abordagem dos sintomas respiratórios – o papel do farmacêutico**, Coopprofar, Gondomar, 9th October 2014;
- **Contraceção de Emergência**, Coopprofar, Gondomar, 24th July 2014;
- **A importância da Saúde Oral**, Coopprofar, Gondomar, 16 April, 2013, Creditado pela Ordem dos Farmacêuticos;
- **Como Desenhar e Defender a sua Tese de Doutoramento**, Universidade Católica Portuguesa, Porto, 16th June 2012;
- **Novidades BioActivo**, Hotel Holiday Inn, 11th April 2012;
- **HPLC Techniques**, Tecnocroma®-Técnicas Analíticas, Lda, Centro de Engenharia Biológica, Universidade do Minho, 2012;
- **Dermatologia e Oftalmologia**, Edol®, Coopprofar, Gondomar, 29th March 2012;
- **Stalking: Abordagem penal e multidisciplinar**, Universidade no Minho, 16th March 2012;
- **Tratamento das lesões da pele**, Biafine® e Compeed®, Hotel Holiday Inn, Vila Nova de Gaia, 15th March 2012;
- **A Gama BioActivo**, Hotel Holiday Inn, Vila Nova de Gaia, 10th February 2012;
- **A Arte da Guerrilha**, Universidade Lusíada, V.N. Famalicão, 8th March 2012;
- **Uriage: Gama Isolift**, Hotel Tiara Park, Porto, 7th February 2012;
- **Osteoartrose: a dor, a patologia osteoarticular e as terapêuticas disponíveis**”, Novartis®, Emulgel-ex®, ANF, Porto, 25th January 2012;

## CONTINUING EDUCATION

- **A Doença Bipolar**, Lilly® Zyprexa®, ANF, Porto, 28th November 2011;
- **Alimentação e Nutrição no Primeiro Ano de Vida**, Nestlé®, Hospital Privado da Boavista, Porto, 24th November 2011;
- **Amamentação: Resolução de Problemas**, Cooprofar, Gondomar, 25th October 2011;
- **Cialis® 5 mg**, Lilly®, Hotel Ipanema Porto, Porto, 13th October 2011;
- **Vacina Contra a Gripe nos Idosos**, ANF, Porto, 12th October 2011;
- **Abordagem da dor crónica na perspectiva do farmacêutico**, Bene Farmacêutica, Cofanor, Porto, 15th April 2011;
- **Pele e Sol: Saber Conviver**, APCC, Fundação Cupertino de Miranda, Porto, 26th March 2011;
- **Alli® e hábitos de vida saudáveis**, GSK®, ANF, Porto, 21st March 2011;
- **Fagoterapia e Antibioterapia**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 25th February 2011;
- **Especialização no Programa de Cuidados Farmacêuticos: DPOC, HTA, Diabetes Mellitus, Dislipidemias**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, January 2011;
- **Cu-Zn+: Inovação nas dermatoses inflamatórias**, Uriage®, Hotel Bessa, Porto, 11th November 2010;
- **Doença do refluxo gastro-esofágico: fisiologia, clínica e terapêuticas disponíveis**, Gaviscon®, ANF, Porto, Fundação Cupertino de Miranda Porto, 19th October 2010;
- **A Comunicação na Farmácia**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 8th October 2010;
- **O contributo da Autovigilância no Controlo da Diabetes**, ANF, Fundação Cupertino de Miranda, Porto, 6th October 2010;
- **Interrupção Voluntária da Gravidez**, ellaOne®, Porto, 2nd June 2010;
- **Planeamento de Marketing**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 28-29th June 2010;
- **Técnicas de Venda**, ANF, Porto, 7-8th May 2010;
- **Photoderm® Bronze** - Bioderma, Hotel Tiara, Porto, 6th May 2010;
- **A Gama Eucerin®** - Hotel Ipanema Park, Porto, April 2010;
- **Gestão dos Indicadores Financeiros e Planeamento**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 21-22nd April 2010;
- **Curso Geral Dermoteca**, Hotel Porto Palácio, Porto, 21st April 2010;
- **Delegação de Tarefas e Gestão do Tempo**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 13- 14th April 2010;
- **Criar Equipas Positivas**, ANF, Porto, 6-7th April 2010;
- **Gestão da Comunicação em Marketing**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 30th March 2010;
- **Estratégias de Planeamento de Marketing**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 29th March 2010;
- **A Gama Saugella®** - Palácio do Freixo, Porto, 25th March 2010;
- **Dislipidemias**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 23th March 2010;
- **Gestão Integrada de Marketing: interligação entre a perspectiva financeira**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 15-16th March 2010;
- **Ser o Líder da Equipa – competências e papéis**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 9-10 March 2010;
- **Viver com o Sol – O Profissional de Saúde e a Sociedade Civil**, APCC, Fundação Cupertino de Miranda, Porto, 6th March 2010; iSaúde, ANF, Porto, 2nd March 2010;
- **Factores de Risco Cardiovascular**, ANF, Porto, 24th March 2010;
- **Peles sensíveis e Peles oleosas** – Bioderma®, Porto, 11th February 2010;
- **Marketing em Farmácia: criação de valor para o cliente da farmácia**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 7-8th January 2010;
- **A Gama Bioactivo**, Hotel Melia Gaia Porto, December 2009;
- **Curso Geral de Programa de Cuidados Farmacêuticos**, ANF Escola Superior de Pós-Graduação em Saúde e Gestão, Porto, 3rd December 2009;
- **Ejaculação Precoce**, Priligy®, Hotel Porto Palácio, 2nd December 2009;
- **As Infecções Fúngicas: Um problema de Saúde Pública**, Pfizer®, Solar do Paço, Braga, November 2009;
- **Análogos da LHGH - Lucrin® (acetato de leuprorelina)**, Abbott®, 15th July 2009, Hospital Pedro Hispano;
- **Estatinas – Crestor® (Rosuvastatina)** – AstraZeneca, 9th July 2009, Hospital Pedro Hispano;
- **A Problemática das Infecções por Gram+, Daptomicina**, Centro Cultural Belém, Lisboa, 20th June 2009;
- **Curso de Formação Phyto®** - Hotel Porto Palácio, Porto, 12th May 2009;
- **Formação Galénico®: casos práticos** - Hotel Tiara, Porto, 7th May 2009;
- **Curso de Administração de Vacinas** – Associação Nacional das Farmácias, 23-24th April 2009;
- **X Jornadas de Ciências Farmacêuticas do I.S.C.S.N. – Dermofarmácia e Cosmética** – 17-19th April 2009;
- **Doença Venosa Crónica, Antistax® e Obstipação, Dulcolax®**, Hotel Melia Gaia Porto, 16th April 2009;
- **V Ciclo de Conferências do do Instituto Superior de Ciências da Saúde do Norte – A Doença da Longevidade** – 16th April 2009;
- **Viver com o Sol – O Profissional de Saúde e a Sociedade Civil**, APCC, Fundação Cupertino de Miranda, Porto, 28th March 2009;
- **Lombalgias, Moment® e Momendol®, Angelini®**, 18th March 2009;
- **II Palestras de Tecnologia Farmacêutica Veterinária do I.S.C.S.N.** – Aconselhamento Farmacêutico, Gandra – Paredes, 14th March 2009;
- **Dermatologia e Cosmetologia – A saúde ao serviço do bem-estar**, Centro de Congressos da Alfândega, Porto, 18- 19th April 2007;
- **VIII Jornadas de Ciências Farmacêuticas do I.S.C.S.N. – O Acto Farmacêutico – adequação ao exercício profissional**, Centro de Congressos da Alfândega, Porto, 16-17th March 2007;
- **III Ciclo de Conferências do Instituto Superior de Ciências da Saúde do Norte – Corpo: estética e saúde**, Centro de Congressos da Alfândega, Porto, 15th March 2007;

## SOFTWARE SKILLS

Microsoft® WORD



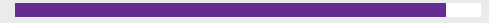
Microsoft® POWERPOINT



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Microsoft® PUBLISHER



GraphPad® PRISM



Adobe® ILLUSTRATOR



Adobe® FIREWORKS



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 [www.rodriquestcf.pt](http://www.rodriquestcf.pt)

 [www.researchgate.net/profile/Celia\\_Rodriguesz](https://www.researchgate.net/profile/Celia_Rodriguesz)

 [www.linkedin.com/in/celiafrodrigues](https://www.linkedin.com/in/celiafrodrigues)

- **Alterações Ambientais e Infecção. Mitos e factos** – Prof. Doutor Luís Távora (IHMT), “Impacto da poluição na biodiversidade” – Prof. Doutor Filipe Castro (CIIMAR) - I Jornadas de Ciências do ISCSN intituladas “Bioriscos”, Centro de Congressos da Alfândega, Porto, 17th March 2007;
- **VII Jornadas de Ciências Farmacêuticas do I.S.C.S.N. – Doente Oncológico – do diagnóstico à terapêutica**, Centro de Congressos da Alfândega, Porto, 10-11th March 2006;
- **VI Jornadas de Ciências Farmacêuticas do I.S.C.S.N. – Automedicação: vantagens e riscos**, Centro de Congressos da Alfândega, Porto, 13-14th May 2005;
- **II Ciclo de Conferências do Instituto Superior de Ciências da Saúde do Norte – Células Estaminais: ciência e ética**, Centro de Congressos da Alfândega, Porto, 9th March 2006;
- **I Ciclo de Conferências do Instituto Superior de Ciências da Saúde do Norte – Actividade Física e Ciclo Vital**, Centro de Congressos da Alfândega, Porto, 12th May 2005;
- **Importância dos conhecimentos botânicos na vida profissional do Farmacêutico**, Instituto Superior de Ciências de Saúde – Norte, Gandra – Paredes, 22nd March 2005;
- **III Jornadas de Análises Clínicas e de Saúde Pública da Escola Superior de Saúde do Vale do Ave**, 24-25th de November 2004;
- **Cancro da mama familiar**, Escola Superior de Saúde do Vale do Ave, 25th May 2004;
- **Alterações moleculares no cancro da bexiga**, Escola Superior de Saúde do Vale do Ave, 1st June 2004;
- **Cultura de células para o diagnóstico pré-natal**, Escola Superior de Saúde do Vale do Ave, 2nd June 2004;
- **Técnicas de HPLC**, Escola Superior de Saúde do Vale do Ave, 8th June 2004;
- **Mecanismos de resistência a drogas quimioterápicas no cancro do ovário**, Escola Superior de Saúde do Vale do Ave, 9th June 2004;
- **Técnicas laboratoriais em Biologia Molecular**, Escola Superior de Saúde do Vale do Ave, 11th June 2004.
- **Certificação de Empresas – Qualidade, SHST, Ambiente**, Auditório da Biblioteca Municipal de Barcelos, em 16th January 2004;
- **II Jornadas de Análises Clínicas e de Saúde Pública da Escola Superior de Saúde do Vale do Ave**, Auditório Eng. Eurico de Melo, Santo Tirso, 3-4th December 2003;
- **Controlo de Qualidade em Imuno-Hemoterapia**, Escola Superior de Saúde do Vale do Ave, 15th July 2003;
- **Paludismo**, Escola Superior de Saúde do Vale do Ave, 7th July 2003;
- **I Jornadas de Análises Clínicas e de Saúde Pública da Escola Superior de Saúde do Vale do Ave**, Auditório Eng. Eurico de Melo, Santo Tirso, 16-17th January 2002.