**NICOLE DE MELLO FIALLOS - CV**

**Personal Information**

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**Cited as:**

FIALLOS, NM; DE MELLO FIALLOS N; FIALLOS NDM; FIALLOS MELLO, NICOLE DE

**Education:**

2018-2022: Ph.D. in Medical Microbiology – Department of Pathology and Legal Medicine at Medical School – Federal University of Ceará (UFC). Mentor: Dr. Rossana Aguiar Cordeiro. Thesis: *Enterococcus faecalis* and *Candida albicans* interkingdom biofilms.

2021-2022: Visitor scholar at University of Florida, Lemos Abranches Lab – USA. Mentor: Dr. Jose Lemos

2016-2017: Master’s Degree in Dental Sciences at State University of Rio de Janeiro (UERJ). Mentor: Dr. Luciana Sassone. Thesis: Antimicrobial activity of *Vitis vinifera* seed extract against *Enterococcus faecalis* biofilm: Confocal microscopy analysis

2009-2014: D.D.S. degree from Federal University of Ceará (UFC). Mentor: Dr. Mônica Studart

**About me:**

During my undergraduate studies, I was introduced to scientific research working with pharmacology and the development of new anti-inflammatory drugs using in vivo models. In my Master’s, my research line moved forward to oral microbiology, aiming at developing natural antimicrobials against endodontic biofilms using ex vivo models. I got my title as Endodontics Specialist at the Brazilian Association of Dentistry. After getting my master’s degree, I decided to learn more deeply about microbiology. Therefore, I joined a Ph.D. program specializing in bacterial and fungal infectious diseases. At the beginning of my Ph.D., I joined the Medical Mycology Specialized Center (CEMM), where I obtained skills in the diagnosis and processing of microbial samples from the most diverse clinical origins, and next I moved to the Emergent and Reemerging pathogens Lab. For my Ph.D. thesis, I focused on *interkingdom* interactions between bacteria and fungi, investigating how they can influence the virulence of each other. Aiming to optimize my approach, In 2021, I was granted a 1-year scholarship to conduct my experiments at the University of Florida, USA, in Lemos-Abranches Lab, focusing on transcriptomics and metabolomic outcomes of bacteria and fungi interactions. Moreover, during both my master’s and Ph.D., I had experience teaching undergraduate students in the dental practice clinics at the university.

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| **Peer-review publications**

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| **1.** |  **FIALLOS, NICOLE DE MELLO**; AGUIAR, ANA LUIZA RIBEIRO; NASCIMENTO DA SILVA, BRUNO; ROCHA, MARCOS FÁBIO GADELHA; SIDRIM, JOSÉ JÚLIO COSTA; CASTELO BRANCO DE SOUZA COLLARES MAIA, DÉBORA; CORDEIRO, ROSSANA DE AGUIAR*Enterococcus faecalis* and *Candida albicans* dual-species biofilm: establishment of an *in vitro* protocol and characterization. BIOFOULING. Fator de Impacto(2021 JCR): 3,7970, v.28, p.401 - 413, 2022. |
| **2.** |  **FIALLOS, N. M.**; AGUIAR, ANA LUIZA RIBEIRO; NASCIMENTO DA SILVA, BRUNO; ROCHA, MARCOS FÁBIO GADELHA; SIDRIM, JOSÉ JÚLIO COSTA; CASTELO BRANCO DE SOUZA COLLARES MAIA, DÉBORA; CORDEIRO, R.A.The Potential of Phenothiazines against Endodontic Pathogens: A Focus on *Enterococcus-Candida* Dual-Species Biofilm. ANTIBIOTICS-BASEL. Fator de Impacto(2021 JCR): 5,2220, v.11, p.1 - 13, 2022. |
| **3.** |  **FIALLOS, NICOLE DE MELLO**; CECCHIN, DOGLAS; LIMA, CAROLINA OLIVEIRA; HIRATA, RAPHAEL; SILVA, EMMANUEL JOÃO NOGUEIRA LEAL; SASSONE, LUCIANA MOURAAntimicrobial effectiveness of grape seed extract against *Enterococcus faecalis* biofilm: A Confocal Laser Scanning Microscopy analysis. Australian Endodontic Journal. Fator de Impacto(2021 JCR): 1,7190, v.2020, p.https://onlinel - , 2019. |
| **4.** |  CARVALHO NETO, GERALDO LOPES DE; DINIZ, TAUANE CAVALCANTE; BARRETO, JOEL OLIVEIRA; ROCHA VALADAS, LIDIA AUDREY; RODRIGUES NETO, EDILSON MARTINS; **FIALLOS, NICOLE DE MELLO**; SILVA BARROS, PAULO GOBERLANIO; BANDEIRA, MARY ANNE MEDEIROS; SOARES, IGOR LIMA; DIAS, CAMILA COSTA; SILVA LIMA, SANDRA MARA DA; CHAGAS, FRANCINEUDO OLIVEIRA; MELLO FIALLOS, ANA CRISTINA DEMechanical Brushing Effects in vitro of a Dentifrice Containing Punica granatum Linné. JOURNAL OF YOUNG PHARMACISTS (PRINT). Fator de Impacto(2021 JCR): 0,0000, v.13, p.54 - 57, 2021. |
| **5.** |  MENEZES ESTÁCIO, LUANDA ASHLEY; LUTIF, VIVIANE SOLANO; ADEODATO, LARA CHOAIRY; LOPES DE AGUIAR, MARCIO GLAUBER; CARVALHO LEAL, ISABELLY DE; BARROS SILVA, PAULO GOBERLANIO; **MELLO FIALLOS, NICOLE DE**; BARRETO FERNANDES, ANALICE MENDES; CARVALHO FURTADO JUNIOR, JOAO HILDO DE; QUEIROZ MARTINIANO, CARLOS RICARDO DE; ALENCAR JUNIOR, EMMANUEL ARRAES DE; CRUZ FONSECA, SAID GONCALVES DA; MELLO FIALLOS, ANA CRISTINA DEMechanical Effects of Brushing with Brazilian Red Propolis Toothpaste on Artificial Teeth. JOURNAL OF YOUNG PHARMACISTS (PRINT). Fator de Impacto(2021 JCR): 0,0000, v.13, p.131 - 135, 2021. |
| **6.** |  MACIEL UCHOA GADELHA, LEANDRO; AUDREY ROCHA VALADAS, LÍDIA; **MELLO FIALLOS, NICOLE DE**; PERALTA, SÔNIA LUQUE; MENDONÇA, KENIESD SAMPAIO; LEITÃO LOTIF, MARA ASSEF; BEZERRA, GILVAN LIMA; LOPES DE AGUIAR, MÁRCIO GLAUBER; GUERRA DIÓGENES, ÉRIKA SABÓIA; RODRIGUES NETO, EDILSON MARTINS; OTÁVIO ASEVEDO, GEORGE; DE MELLO FIALLOS, ANA CRISTINAEvaluation of the Antifungal Effect Vitis vinifera Extract on Candida albicans. JOURNAL OF YOUNG PHARMACISTS (PRINT). Fator de Impacto(2021 JCR): 0,0000, v.10, p.164 - 168, 2018. |
| **7.** |  MELO ARAÚJO, ALENE SILVA; FRANCA FLORES, PAULA RAMALHO; FEITOSA, VICTOR PINHEIRO; ROCHA VALADAS, LÍDIA AUDREY; MARTINS DE PAULA, DIEGO; **MELLO FIALLOS, NICOLE DE**; RIBEIRO ROLA, IGOR; SOARES ROLA, JOSÉ ANTERO; MELLO FIALLOS, ANA CRISTINA DEMicro-Raman Spectroscopy, Colour Stability, Roughness and Mass Variation of Removable Partial Dentures after Cleansing with White Wine Vinegar. JOURNAL OF YOUNG PHARMACISTS (PRINT). Fator de Impacto(2021 JCR): 0,0000, v.10, p.399 - 403, 2018. |
| **8.** |  ROCHA VALADAS, LÍDIA AUDREY; QUEIROZ, LÍDIA RODRIGUES; BANDEIRA, MARY ANNE MEDEIROS; DE OLIVEIRA FILHO, ROSUETI DIÓGENES; GUERRA DIÓGENES, ÉRIKA SABÓIA; DE MELLO FIALLOS, ANA CRISTINA; **DE MELLO FIALLOS, NICOLE**; DA SILVA, RÁVILLA ALVES; DO CARMO FILHO, JOSÉ RONILDO LINS; COSTA DIAS, CAMILA; PONTE, EMERSON DIAS; FERNANDES, CARLOS EDUARDO LIMA; CAPISTRANO, ALLANA BEZERRA; BRUNO, PAULO ARTHUR MENDONÇA; FURTADO JÚNIOR, JOÃO HILDO DE CARVALHOAnalyses of deposited and Granted Patents at Federal University of Ceara in Brazil. JOURNAL OF YOUNG PHARMACISTS (PRINT). Fator de Impacto(2021 JCR): 0,0000, v.9, p.307 - 310, 2017. |

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**Manuscripts in preparation**

**FIALLOS, NICOLE DE MELLO**; KAJFASZ, JESSICA; ZENG,LIN;CORDEIRO, ROSSANA DE AGUIAR; ABRANCHES, JACQUELINE; LEMOS, JOSE ABELARDO.

 *Candida albicans* effect on *Enterococcus faecalis* transcriptome in dual-species biofilm.

**Patents and Innovation**

*Cynbopogam citratus* for prosthesis cleaning BR1020200058630

**Awards**

**2022-** Federal University of Ceara awards, science and society, Research:

“*Enterococcus faecalis* and *Candida albicans* duo-species biofilm: establishment of in vitro protocol and characterization”. University meetings.

**2018 -** International Congress of Dentistry, Review panels: " *Punica granatum* and its benefits to oral health" Brazilian Association of Dentistry

**2012** International Congress of Dentistry Scientific panels: " Effect of

Strontium ranelate on critical defects on rat’s calvaria " Brazilian Association of Dentistry

**2012** Graduate in Dentistry Meeting of Fortaleza Scientific panels:

“Grown Factors effect in the periodontal tissue regeneration”

**Ongoing Reviewer**

Biofouling- Taylor & Francis

African Journal of Pure and Applied Chemistry

**Skills**

*Analysis of Biofilms and several Microbiology techniques*

*CLSI Antimicrobial susceptibility assays*

*Screening of bacterial and fungal metabolism*

*Synergy of antimicrobials*

*Screening of clinical diagnosis*

*Antimicrobial Resistance*

*Molecular Biology – RNA-SEQ, Polymerase chain reaction PCR*

*Dental ex vivo models: human, bovine*

*In vivo models: mouse, rat, mice, C.elegans, Galleria mellonella*

*Oral Microbiome models*

*Design of clinical research: isolation and identification of microbes from clinical samples*

*Natural Compounds applied to Dentistry*

*Development of patents and innovation*

*Confocal Microscopy*

*Electronic Screening Microscopy*

**Abstract presented**

1. FIALLOS, N. M.; CORDEIRO, R.A.; da Silva, BN; Aguiar, ALR In: IADR/AADR/CADR General Session, 2020, Washington, DC. Journal of Dental Research. , 2020.

2. FIALLOS, NM; SASSONE, L. M.; HIRATA, R.; Fiallos, A. C. M.; SILVA, EMMANUEL JOÃO NOGUEIRA LEAL; AUDREY ROCHA VALADAS, LÍDIA In: Sociedade Brasileira de Pesquisa em Odontologia, 2018, Campinas. Brazilian Oral Research. , 2018.

3. Mourão, E.R; da Silva, MQM; FIALLOS, N. M. In: Congresso Internacional de Odontologia PUNICA GRANATUM E SEUS BENEFÍCIOS NA ODONTOLOGIA:UMA REVISÃO DE LITERATURA. , 2018.

4. FIALLOS, N. M.; DE MELLO FIALLOS, ANA CRISTINA; SASSONE, L. M.; ROCHA VALADAS, LÍDIA AUDREY; DINIZ, T.C In: 53º Encontro do Grupo Brasileiro de Materiais dentários, 2017, Fortaleza. “Novos cimentos reparadores em endodontia: uma revisão de literatura. , 2017.

5. LOTIF, M.; FLORES, PRF; ROCHA VALADAS, LÍDIA AUDREY; FEITOSA, V.P; FIALLOS, N. M.; Fiallos, A. C. M. In: IADR- International Association of Dental Research, 2017, San Francisco. Os polifenóis presentes em Vitis vinífera são responsáveis por sua atividade antimicrobiana contra gram-positivos e gram-negativos. O extrato de semente de uva também é eficaz contra diferentes cepas de Streptococcus spp. associadas com cáries dentárias,2017.

 6. FIALLOS, N. M.; COELHO J.; MOREIRA, MMSM In: Encontro das academias de odontologia do Brasil, 2014, Fortaleza. Ação Cariogência do chá verde:uma revisão de literatura. academia cearense de odontologia, 2014.

7. FIALLOS, N. M.; MOREIRA, MMSM In: Jornada Integrada dos Acadêmicos de Odontologia, 2014 Ação do chá verde contra a Doença periodontal. UFC, 2014.

8. MOREIRA, A.C.L; FIALLOS, N. M.; PINHEIRO L.S; NEPOMUCENO R.A.A In: Congresso Internacional de odontologia do Paraná, 2013, Curitiba. Granuloma Piogênico e o tratamento na unidade de atenção básica de saúde. , 2013.

 9. GUIMARÕES MV; FIALLOS, A.C.M; FIALLOS, N. M.; DE LIMA, V. In: Congress of inflamation, Araraquara. Stroncium Ranelate induces bone repair of rat calvaria critical size defect via axis rank rankl opg. , 2013.

10. PINHEIRO L.S; MOREIRA, A.C.L; FIALLOS, N. M.; ROCHA, J.E.T. In: Congresso Internacional de Odontologia do Paraná, 2013, Curitiba. Utilização de mini-implantes ortodônticos na verticalização de caninos:relato de caso. , 2013.

11. FIALLOS, N. M.; ROCHA, J.E.T.; MOREIRA, A.C.L; PINHEIRO L.S In: Congresso Internacional de Odontologia do Paraná, 2013, Curitiba. Utilização de mini-implantes ortodônticos para o descruzamento de dente anteriores em apinhamento severo: relato de caso. , 2013.

12. OLIVEIRA, R.F; DE NEGREIROS, W.A; FIALLOS, N. M.; SILVA, F.H.P.M; ROCHA, J.E.T. In: Congresso Internacional de odontologia do Cceará, 2012, Fortaleza. A inter-relação entre o tratamento ortodônticos e as DTMS. Nicole, 2012.

13. Fiallos, A. C. M.; DE LIMA, V.; KURITA, L. M; NOGUEIRA, C. D.; FIALLOS, N. M. In: Congresso Internacional de Odontologia no Ceará, 2012, Fortaleza. Efeito do Ranelato de estrôncio no reparo ósseo de defeitos críticos em calvárias de Ratos , 2012.

14. FIALLOS, N. M.; Fiallos, A. C. M. In: Encontro de pós-graduação em odontologia, Fortaleza. Efeitos dos Fatores de crescimento na regeneração dos tecidos periodontais, 2012.

15. FIALLOS, N. M.; FURTADO ,J.H.C.; SANTOS, S.E.; FIGUEIREDO, P.L. In: Jornada Integrada dos acadêmicos de odontologia, 2012, Fortaleza. Eficácia Clínica dos Implantes mediatos pós-exodontia. UFC, 2012.

16. SILVA, F.H.P.M; OLIVEIRA, R.F; FIALLOS, N. M.; YAMAUTI ,M. In: Congresso Internacional de Odontologia do Ceará, 2012, Fortaleza. Métodos Auxiliares no Diagnóstico de cáries. ufc, 2012.

17. FIALLOS, N. M.; SILVA, F.H.P.M; OLIVEIRA, R.F; Fiallos, A. C. M. In: CONGRESSO INTERNACIONAL DE ODONTOLOGIA DO CEARÁ, 2012, Fortaleza. O papel do sistema RANK/RANKL;OPG no processo de Remodelação óssea. UFC, 2012.

18. Fiallos, A. C. M.; FIALLOS, N. M. In: Encontro Internacional da academia de osseointegração, 2012, São Paulo.Ranelato de Estrôncio no reparo ósseo de defeitos críticos em calvária de ratos: análise tomográfica e histológica. , 2012.

19. Alencar, E. M.; FIALLOS, N. M.; ALVES, A. P. N. In: x Jornada Odontógica Integrada dos Acadêmicos da UFC, 2011, Fortaleza. Osteonecrose Associada aos Bisfosfanatos. UFC, 2011.

 20. FIALLOS, N. M.; Alencar, E. M.; ALVES, A. P. N. In: Jornada Odontológica Integrada dos acadêmicos da UFC, 2011, Fortaleza. Uma revisão sobre a composição química dos enxaguatórios bucais. UFC, 2011.

**Grants awarded**

***Ph.D. degree*** 2018-2021

Fellowship

Foundation of scientific and technologic development of Ceara - FUNCAP (Fundação cearense de apoio a desenvolvimento científico e tecnológico) No 99046008304

***Interuniversity exchange doctorate*** 2021-2022

Fellowship

Institutional Internationalization Program CAPES-PRINT (Programa institucional de internacionalização)

Coordenação de Aperfeiçoamento de Pessoal de Nível Superior – Brasil (CAPES) – Finance Code 001

No 88887.593052/2020-00 Influence of *Candida albicans* on *Enterococcus faecalis* transcriptome

***Master’s degree*** 2016-2017

Coordenação de Aperfeiçoamento de Pessoal de Nível Superior – Brasil (CAPES) – Finance Code 001

***Scholarship for dental students*** 2014-2014

Federal University of Ceara: Teaching initiation

No 102839/2014-0

**Referees List**

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