

Curriculum Vitae

Leticia Cabrera Capalbo, DDS, MSc, PhD

Clinical Assistant Professor
Division of Clinical Essentials and Simulation
University of Detroit Mercy
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Academic Appointment

- 05/2023 – Present Postdoctoral Research Fellow – PI: Livia Tenuta**
University of Michigan, Ann Arbor, MI, USA
- 04/2019 – 01/2021 Clinical Assistant Professor – Dental Simulation Laboratory and University Clinics – Pediatrics and Orthodontics**
São Paulo State University, UNESP – Brazil
- 04/2021 – 10/2021 Clinical Assistant Professor – Orthodontics Residency**
Center of Continuous Education in Dentistry, Araçatuba, São Paulo, Brazil

Education

- 03/2021 – 04/2022 Ph.D. in Dental Science – Pediatric Dentistry**
São Paulo State University, UNESP, Araçatuba, SP, Brazil
- 03/2019 – 01/2021 Master of Science in Dental Science – Pediatric Dentistry**
São Paulo State University, UNESP, Araçatuba, SP, Brazil
- 09/2016 – 08/2019 Orthodontics Residency**
Center of Continuous Education in Dentistry, Araçatuba, Brazil
- 2012 – 2016 Doctor of Dental Surgery**
São Paulo State University, UNESP, Araçatuba, SP, Brazil

Teaching Experiences

As a Pediatric Dentistry and Orthodontics professor, my expertise lies in clinical practice and effective teaching. I've treated pediatric patients while sharing practical insights with dental professionals. In the classroom, I blend theoretical knowledge with real-world applications, delivering lectures to diverse student levels, from undergraduates to graduates. My commitment to teaching extends to clinical and simulation lab settings, ensuring a comprehensive education for students entering the dynamic fields of pediatric dentistry and orthodontics.

Laboratory Experiences

My laboratory skills combine precision, versatility, and an understanding of diverse scientific methodologies. From the intricate preparation of specimens, including enamel and dentin slabs, to the formulation of solutions tailored to experimental needs, I demonstrate a meticulous approach to every task. My research interests and experience rely mostly on caries and erosion models through pH-cycling protocols. Furthermore, I have experience in profilometry, microhardness analysis, micro-CT analysis, and zymographic analysis, exploring materials at varying scales and contributing to a comprehensive understanding of their characteristics. Moreover, microbiology in my skill set allows me to investigate with a focus on dental biofilm models. Lastly, I have also worked with in vivo animal models, and my experience with husbandry, histology, and biostatistics completes my approach to scientific research.

Interpersonal Skills

My interpersonal skills include effective leadership, collaborative teamwork, and a strong sense of responsibility. As a leader, I worked alongside and guided other graduate students, helping to provide direction and fostering a cohesive working environment. My collaborative approach in team settings

contributes to a dynamic, respectful, and effective group. A profound sense of responsibility underlines my actions, ensuring a commitment to tasks and ethical practices.

Publications in Peer-Reviewed Journals

1. Tenuta, L.M.A.; **Capalbo, L.C.**; Yoshino, E.Y. Enamel Fluoride Reactivity of Professional Fluoride Products Is Not Correlated With Their Total Fluoride Content. *Pediatric Dentistry*, v. 47, 2025.
2. Cosme-Silva, L.; Dal-Fabbro, R.; Pontes, F.L.; **Capalbo, L.C.**; Ervolino, E.; Cintra, L.T.A.; Segura-Egea, J.J.; Gomes-Filho, J.E. Multi-strain probiotic formula modulates expression of β -defensin-2, β -defensin-3, and TLR-4 in male rats with apical periodontitis. *Archives of Oral Biology*, v. 170, 2025.
3. Fabregat, B.D.; Delbem, A.C.B.; Carmona, W.R.; **Capalbo, L.C.**; Báez-Quintero, L.C.; Wiegand, A.; Monteiro, D.R.; Pessan, J.P. Low-fluoride gels supplemented with nano-sized sodium trimetaphosphate reduce dentin erosive wear *in vitro*. *Archives of Oral Biology*, v. 163, 2024.
4. Da Silva, I.F.; **Capalbo, L.C.**; Dal-Fabbro, R.; Paiva, M.F.; Hosida, T.Y.; Báez-Quintero, L.C.; Sampaio, C.; Monteiro, D.R.; Delbem, A.C.B.; Pessan, J.P. Dentin erosive wear is reduced by fluoride varnishes containing nanosized sodium trimetaphosphate *in vitro*. *Brazilian Oral Research*, v. 15, 2024.
5. Nunes, G.P.; Morabito, J.M.S.D.; Nunes, L.P.; **Capalbo, L.C.**; Prado, A.H.R.; Toledo, P.T.A.; Ferreira, M.F.; Silva, A.N.A.; Martins, T.P.; Colombo, N.H.; Ferrisse, T.M. Exploring the potential of rapid maxillary expansion and masticatory muscle activity in unilateral posterior crossbite. *Journal of Clinical and Experimental Dentistry*, v. 16, 2024.
6. Dal-Fabbro, R.; Huang, Y.C.; Toledo, P.T.A.; **Capalbo, L.C.**; Coleman, R.M.; Sasaki, H.; Fenno, J.C.; Bottino, M.C. Injectable Methacrylated Gelatin Hydrogel for Safe Sodium Hypochlorite Delivery in Endodontics. *Gels*, v. 9, 2023.
7. Dal-Fabbro, R.; Swanson, W.B.; **Capalbo, L.C.**; Sasaki, H.; Bottino, M.C. Next-generation biomaterials for dental pulp tissue immunomodulation. *Dental Materials*, v. 39, 2023.
8. **Capalbo, L.C.**; Delbem, A.C.B.; Dal-Fabbro, R.; Inácio, K.K.; Oliveira, R.C.; Pessan, J.P. Effect of sodium hexametaphosphate and quercetin, associated or not with fluoride, on dentin erosion *in vitro*. *Archives of Oral Biology*, v. 143, 2022.
9. Nunes, G.P.; Danelon, M.; Pessan, J.P.; **Capalbo, L.C.**; Nunes-Junior, N.A.; Matos, A.A.; Souza, J.A.S.; Buzalaf, M.A.R.; Delbem, A.C.B. Fluoride and trimetaphosphate association as a novel approach for remineralization and antiproteolytic activity in dentin tissue. *Archives of Oral Biology*, v. 142, 2022.
10. Dal-Fabbro, R.; Cosme-Silva, L.; De Oliveira, F.R.S.M.; **Capalbo, L.C.**; Piazza, F.A.; Ervolino, E.; Cintra, L.T.A.; Gomes-Filho, J.E. Effect of red wine or its polyphenols on induced apical periodontitis in rats. *International Endodontic Journal*, v. 54, p. 2276-2289, 2021.
11. Fabbro, R. D.; Cosme-Silva, L.; **Capalbo, L.C.**; Chaves-Neto, A.H.; Ervolino, E.; Cintra, L.T.A.; Gomes-Filho, J.E. Excessive caffeine intake increases bone resorption associated with periapical periodontitis in rats. *International Endodontic Journal*, v. 54, p. 1861-1870, 2021.
12. Dal-Fabbro, R.; Cosme-Silva, L.; Queiroz, I.O.A.; Duarte, P.C.T.; **Capalbo, L.C.**; Santos, A.D.; Moraes, J.C.S.; Gomes-Filho, J.E. Biocompatibility and biomineralization of the experimental nanoparticulate mineral trioxide aggregate (MTA). *Research, Society and Development*, v. 10, p. e27710514866, 2021.
13. **Capalbo, L.C.**; Dal-Fabbro, R.; Donine, A.L.M.A.; Saraiva, J.S.; Bigliazzi, R. Weber, S.A.T; Bertoz, A.P.M. Rapid maxillary expansion as a treatment for obstructive sleep apnea syndrome in children and adolescents: an evaluation by polysomnography and quality of life. *Research, Society and Development*, v. 10, p. e52710212825, 2021.

14. Alves-Rezende, M.C.R.; **Capalbo, L.C.**; Limirio, J.P.J.O.; Capalbo, B.C.; Limirio, P.H.J.O.; Rosa, J.L. The role of TiO₂ nanotube surface on osseointegration of titanium implants: biomechanical and histological study in rats. *Microscopy Research and Technique*, v. 83, p. 817-823, 2020.
15. Dal-Fabbro, R.; Marques-De-Almeida, M.; Cosme-Silva, L.; Capalbo, L.C.; Ervolino, E.; Cintra, L.T.A.; Gomes-Filho, J.E. Effects of different alcohol concentrations on the development of apical periodontitis in rats. *Archives Of Oral Biology*, v. 108, p. 104538, 2019.
16. Alves-Rezende, M.C.R.; Lopes, M.R.A.N.E.; Gonçalves, V.M.; **Capalbo, L.C.**; Oliveira, J.A.G.; Fajardo, R.S. Decontamination of toothbrushes: methods and efficacy. *Archives Of Health Investigation*, v. 4, p. 50-57, 2015.
17. Alves Rezende, M.C.R.; Wada, C. M.; Lopes, M.R.A.N.E.; **Capalbo, L.C.**; Gonçalves, V.M.; Valente, A.D.B.; Oliveira, J.A.G. The role of protein-adsorption in osseointegration. *Archives Of Health Investigation*, v. 4, p. 18-25, 2015.
18. Piato, R.S.; **Capalbo, L.C.**; Rezende, M.I.R.A.; Lehfeld, L.S.; Alves-Rezende, M.C.R. The role of the University of the Third Age at protecting the natural environment. *Archives Of Health Investigation*, v. 3, p. 66-71, 2014.
19. Alves-Rezende, M.C.R.; Wada, C.M.; **Capalbo, L.C.**; Gonçalves, V.M. The use of fibrin tissue adhesive in implant dentistry. *Archives Of Health Investigation*, v. 3, p. 55-60, 2014.

Published Book Chapters

1. **Capalbo, L.C.**; Dal-Fabbro, R.; Bueno, C.R.E; Cosme-Silva, L. Etiology of Pulp Alterations. In: Francine Benetti. (Org.). *Conservative Treatment of Pulp Tissue*. 1ed. New York: Nova Science Publishers, Inc, 2022, p. 21-40.

Awards

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| 2020 | IADR/Colgate Research in Prevention Travel Award, for the work "Fluoride Gel Containing Nanosized TMP on Enamel Erosion/Abrasion", International Association for Dental Research (IADR). |
| 2020 | Honorable Mention for the work "Assessment of quality of life in children after rapid expansion", at 33º Bauru School of Dentistry Meeting, University of São Paulo, USP, Brazil. |
| 2018 | Honorable Mention for the work "Correction of transverse maxillary deficiency using the Leaf® Expander nickel titanium expander: clinical case", at 7º Araçatuba School of Dentistry Meeting, São Paulo State University, UNESP, Brazil. |
| 2015 | Honorable Mention for the work "Study in diabetic rats of the osseointegration of bioactive implants and associated with fibrinic adhesive/tranexamic acid", at 4º Araçatuba School of Dentistry Meeting, São Paulo State University, UNESP, Brazil. |