

PROMOTION RECOMMENDATION
The University of Michigan
School of Dentistry

Cristiane Squarize, associate professor of dentistry, with tenure, School of Dentistry, is recommended for promotion to professor of dentistry, with tenure, School of Dentistry.

Academic Degrees:

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| PhD | 2005 | University of Sao Paulo, Oral Pathology |
| MS | 2003 | University of Sao Paulo, Oral Pathology |
| DDS | 1995 | Pontifical Catholic University of Campinas |

Professional Record:

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| 2018-present | Associate Professor, with tenure, Periodontics and Oral Medicine, School of Dentistry, University of Michigan |
| 2010-2018 | Assistant Professor, Periodontics and Oral Medicine, School of Dentistry, University of Michigan |
| 2005-2010 | Research Fellow, Oral Pharyngeal Cancer Branch, National Institute of Dental and Craniofacial Research, National Institutes of Health |
| 2003-2005 | Visiting Fellow, Oral and Pharyngeal Cancer Branch, National Institutes of Health |

Summary of Evaluation:

Teaching: Professor Squarize is deeply committed to teaching in the pre-doctoral dental curriculum, including serving as a mentor for the immersion pathways research program and helping direct the Brazil global initiatives program. She also teaches several dental hygiene courses, and she has served as the course director and primary lecturer for the General and Oral Pathology course since 2013. She teaches in two graduate level courses and is co-director for one. Her reviews from students and peers are all excellent, describing her respect for the class and knowledge of the topics being taught. She has responded to feedback by reassessing her courses and lectures to provide students with additional clinical cases. She has developed creative resources to aid in her teaching by embracing diverse student backgrounds, learning needs and well-being.

Professor Squarize is also an outstanding mentor. In rank, she has graduated six PhD students, three graduate students, six pre-doctoral fellows, and two dental hygiene students. She has also mentored six visiting scholars while in rank. Of these mentees, two have been recognized at the international level and two at the institutional level for their outstanding research work.

Professor Squarize teaches students to be critical thinkers. She has an excellent teaching impact at the School of Dentistry and other international institutions evidenced by her receiving various awards including the Dr. Jeanne C. Sinkford Scholar Award in 2021 for being recognized as a dental educator who is closely aligned with the promotion of diversity, equity, and inclusion. In 2021-2022, Dr. Squarize was named a fellow at the American Dental Education Leadership Institute.

Research: Professor Squarize maintains a productive research program focusing on epithelial biology with an emphasis on signaling pathways and genes controlling regeneration, tissue transformation and cancer. Particular emphasis has been on the manipulation of PTEN/IP3K signaling. Important applications of this work were demonstrated through the healing of burn wounds as well as tumor growth regulation. In rank, she has published a total of 24 peer-reviewed papers, mostly in high-impact journals such as *Cancer Letters*, *Cellular Oncology*, *The Federation of American Societies for Experimental Biology Journal*, the *International Journal of Molecular Sciences*, and *Critical Reviews of Oncology/Hematology*. Of these, she is the first or senior author on seven. Professor Squarize has six manuscripts under review. Currently, her research is supported by over \$4,000,000 in funding from the National Institutes for Health. In rank, she has ten invited presentations at research meetings and symposia at the international, national and college levels.

Recent and Significant Publications

- Galvis, MM, Borges GA, Oliveria TB, Toledo IP, Castilho RM, Guerra ENS, Kowalski LP, Squarize CH. Immunotherapy improves efficacy and safety of patients with HPV positive and negative head and neck cancer: A systematic review and meta-analysis. *Critical Reviews in Oncology/Hematology*, 2020. 150, 102966 – PMID: 32371338.
- Webber LP, Yujra VQ, Vargas PA, Martins MD, Squarize CH, Castilho RM. Interference with the bromodomain epigenome readers drives p21 expression and tumor senescence. *Cancer Letters*, 2019. 461, 10-20 – PMID: 31265875.
- Silveira EJD, Nascimento Filho CHV, Yujra VQ, Webber LP, Castilho RM, Squarize CH. BMAL1 Modulates Epidermal Healing in a Process Involving the Antioxidative Defense Mechanism. *International Journal of Molecular Sciences*, 2020. 21(3) PMID: 32019183.
- Zagni C, Almeida LO, Balan, Martins MT, Rosselli-Murai LK, Papagerakis P. Castilho RM, Squarize CH. PTEN Mediates Activation of Core Clock Protein BMAL1 and Accumulation of Epidermal Stem Cells. *Stem Cell Reports*, 2017. 9(1), 304-314 – PMID: 28602615.
- Webber LP, Yip B, Nascimento Filho CHVD, Park HB, Castilho RM, Squarize CH. Topical delivery of mTOR inhibitor halts scarring. *Journal of Dermatological Science*, 2019. 95(2), 76-79 – PMID: 31324514.

Service: Professor Squarize has served on a significant number of committees for the Department of Periodontics and Oral Medicine as well as the School of Dentistry in rank. At the school level, she has participated on four Master of Sciences thesis committees, one as the committee chair. She was the chair of an international faculty search for three tenure track faculty members, a member of the Appointment, Promotions and Tenure Committee, a Convener for the School of Dentistry Global Oral Health Initiatives program, and more recently was appointed as the associate dean for faculty affairs. At the national level, she has served as a faculty advisor and as chapter president of the Michigan Student Chapter of the American Association for Dental, Oral and Craniofacial Research. She has been a member of the Science Policy Committee and Nomination Committee of the American Association for Dental, Oral and Craniofacial Research. Professor Squarize has served as a manuscript reviewer for 19 journals.

External Reviewers:

Reviewer A: "...she has an impressive 67 peer reviewed publications published in some excellent biomedical and pathology journals such as *Stem Cell Research*, *Cell Stem Cell*, *Cancer Research*, *Journal of Dermatological Science*, and *Neoplasia and Critical Reviews Oncology/Hematology* to name a few. The quality of her work is also impressive and must be applauded, as Dr. Squarize's publications have been on the cover of highly regarded national and international journals."

Reviewer B: "In summary, since her promotion to Associated Professor, Dr. Squarize has clearly become a leader both within and outside her institution."

Reviewer C: "Dr. Squarize is an outstanding teacher, researcher and academician. Based on a critical analysis of her research and published work, I find her contributions to be creative and original, and to have made a significant impact in the field of oral carcinogenesis and wound healing."

Reviewer D: "When reading the statement of contributions to teaching, one can see her dedication to making her lectures interesting to the students, helping them develop critical thinking, and motivating students to become lifetime learners."

Reviewer E: "In my opinion, Dr. Squarize's success in publishing her findings in high-impact journals, winning major funding from the federal government, and training a quite extensive cadre of future researchers and health professionals in her laboratory, indicates that her standing amongst her peers is quite high, particularly in relation to the competitive nature of her research

Summary of Recommendation:

Professor Squarize is a valuable asset to the School of Dentistry. She has demonstrated exceptional contributions to teaching, research, and service and she is recognized as an extremely passionate, committed, and innovative scientist. It is with the support of the Executive Committee, that I recommend Cristiane Squarize for promotion to professor of dentistry, with tenure, School of Dentistry.



Jan Hu
Interim Dean, School of Dentistry

May 2023