# 5<sup>th</sup> Annual Conference On Epidemiology And Public Health

Advanced Techinques in Clinical Microbiology

# Endodontic Microbiology: A Bibliometric Analysis of the Top 50 Classics

Abstract (600 word limit)

### **Importance of Research(200 words)**

Endodontic microbiology is a vast, interesting, and widely explored area of dentistry. The pulpal and peri-radicular infections are mediated by the formation of biofilm. This biofilm is located in areas that are inaccessible to mechanical cleansing of the root canal system. If these pathogenic microbes persist and are not appropriately removed there is a high chance of postendodontic treatment failure. It has been suggested that every endodontic infection is polymicrobial, i.e., it is a collective outcome of multiple microbes which leads to pathogenesis . Hence, understanding the nature of this polymicrobial infection is very important to ensure its removal and success of endodontic treatment.In this advancing era of digital libraries and the availability of diverse research materials in the fields of dentistry from different parts of the world, citation analysis has emerged to play a significant role in recognition of the most useful areas of research. Endodontic microbiology has been a topic of interest not only for endodontists but also for periodontists and oral surgeons.



# Biography (200 words)

Dr. Boukhris is an interventional cardiologist specialized in complex high-risk (CHIP) PCI and strucutural interventions. After obtaining his MD degree and specialist diploma in Cardiology at the Faculty of Medicine of Tunis, University of Tunis El Manar (Tunisia), he pursued further training with a fellowship in Interventional Cardiology at Cannizzaro Hospital, University of Catania (Italy) under the supervision of Prof Alfredo R. Galassi (founder member and past president of the eurocto Club).In 2017, Dr Boukhris has become Assistant Professor in Cardiology at the Faculty of Medicine of Tunis, University of Tunis El Manar (Tunisia).In 2019, he granted a second 2-year fellowship at Centre Hospitalier de l'Université de Montréal (CHUM) within both programs of the Adult Interventional Cardiology program of the Université de Montréal and the Royal College of Physians and Surgeons of Canada.

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#### Info of Institute & Lab (200 words)

University of Tunis El Manar (UTM), founded in 2000, offers a wide range of degrees in law, literature, environmental sciences, health sciences, medicine, economics, engineering and technology, sciences, humanities, IT, social sciences. It is one of the best universities in Tunisia .The University of Tunis El Manar is a multidisciplinary university in which most of the scientific fields are represented: fundamental sciences, engineering sciences and technology, economics, legal sciences, human sciences, computer sciences, medical and paramedical sciences. In order to adjust to the new social and economic realities and respond to the new daily

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requirements, the University of Tunis El Manar, in accordance with the trends of the National Higher Education in Tunisia and the Barcelona process, adopted the education system of the LMD (Bachelor, Master and Doctorate "phd") since 2006.

# References:

1) Kakehashi S, Stanley H, Fitzgerald R. 1965. "The Effects of Surgical Exposures of Dental Pulps in Germ-Free and Conventional Laboratory Rats." Oral Surgery, Oral Medicine, Oral Pathology. 20: 340-49.

(2) Sundqvist G, Figdor D, Persson S, Sjögren U. 1998. "Microbiologic Analysis of Teeth with Failed Endodontic Treatment and the Outcome of Conservative Retreatment." Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology. 85 : 86-93.

(3) Molander A, Reit C, Dahlen G, Kvist T. 1998. "Microbiological Status of Root-Filled Teeth with Apical Periodontitis." International Endodontic Journal. 31 : 1-7.

(4) Nair PN, Henry S, Cano V, Vera J. "Microbial Status of Apical Root Canal System of Human Mandibular First Molars with Primary Apical Periodontitis after "One-Visit" Endodontic Treatment." Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology. 2005; 99:231-52.

(5) Stuart CH, Schwartz SA, Beeson TJ, Owatz CB. 2006. "Enterococcus faecalis: Its role in Root Canal Treatment Failure and Current Concepts in Retreatment." Journal of Endodontics. 32 : 93-98.

(6) Nair P (2006) "On the Causes of Persistent Apical Periodontitis: A Review." International Endodontic Journal 39, 249– 81. (7) Nair PR, Sjögren U, Krey G, Kahnberg K-E, Sundqvist G. "Intraradicular Bacteria and Fungi in Root-Filled, Asymptomatic Human Teeth with Therapy-Resistant Periapical Lesions: A Longterm Light and Electron Microscopic Follow-Up Study." J Endod 1990; 16 : 580-88.

(8) Siqueira Jr JF, Rôças IN. "Clinical Implications and Microbiology of Bacterial Persistence after Treatment Procedures." J Endod 2008; 34 : 1291-1301.

(9) Pinheiro E, Gomes B, Ferraz C, Sousa E, Teixeira F, Souza-Filho F. 2003. "Microorganisms from Canals of Root-Filled Teeth with Periapical Lesions." International Endodontic Journal. 36 : 1-11.

(10) Love R. 2001. "Enterococcus faecalis– A Mechanism for Its Role in Endodontic Failure." International Endodontic Journal. 34: 399-405.

(11) Rôças IN, Siqueira Jr JF, Santos KR. 2004. "Association of Enterococcus faecalis with Different Forms of Periradicular Diseases." Journal of Endodontics. 30:315-20.

(12) Torabinejad M, Khademi AA, Babagoli J, Cho Y, Johnson WB, Bozhilov K, et al. 2003. "A New Solution for the Removal of the Smear Layer." Journal of Endodontics. 29:170-75.

(13) Siqueira Jr JF, Rôças IN. 2004. "Polymerase Chain Reaction–Based Analysis of Microorganisms Associated with Failed Endodontic Treatment." Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology. 97: 85-94.

(14) Hoshino E, Kurihara-Ando N, Sato I, Uematsu H, Sato M, Kota K et al. (1996) "In Vitro Antibacterial Susceptibility of Bacteria Taken from Infected Root Dentine to a Mixture of Ciprofloxacin, Metronidazole