



International Federation of Endodontic Associations.

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IFEA 13th Endodontic World Congress 2022, Santiago, CHILE: Nov 09-12th 2022

IFEA 14th Endodontic World Congress 2024, Glasgow, Scotland

IFEA 15th Endodontic World Congress 2026, Sydney, Australia

The 2021-22 IFEA report from the Jean-Marie Laurichesse Research Grant Award Committee.

Dear IFEA President.

Oct/25/2022

The Grant committee that I chaired, received 12 applications this year. All submissions were of great quality and value. Because of these, it made it hard for their review and grading. We invite all IFEA members to take advantage of this great opportunity of the research grant, in order to support part of their research projects.

The submissions received were:

1. Salivary and gingival crevicular fluid levels of NLRP3 in patients diagnosed with symptomatic irreversible pulpitis- A case control study.
2. Herbal Intracanal Medicaments- Its Effect on Root Dentin Microstructure, Strength and its Antibacterial Activity Against *E. faecalis* Biofilm at Different Stages of Development: An In Vitro Study.
3. Egg Shell Derived Nanohydroxyapatite Incorporated Carboxymethyl Chitosan Scaffold Functionalized with Polydopamine Nanoparticles for Pulp-Dentin Regeneration- An Animal Study.
4. Comparison of inflammatory cytokine levels and oxidative DNA damage in teeth with chronic apical periodontitis in non-smokers, active and passive smokers.
5. Efficacy of the GentleWave system to remove biofilm from infected root canal system before or after minimal instrumentation.
6. Effect of the GentleWave System on Dentin Microhardness and Sealer Penetration: An in Vitro Study.
7. Finite element analysis of stress distribution in external cervical resorptive defect restored with different restorative materials.
8. Novel green fabrication of Graphene-CeO₂ nanocomposite with anti-biofilm property against mutant strain of *E. Faecalis*.

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9. Role of Human amniotic membrane as a scaffold on early pulp bio-mineralization - a tooth tissue culture study.
10. Immunohistochemical analysis on the role of Glycogen Synthase Kinase 3 β inhibitor on early pulp biomineralization by regulating WNT β -Catenin pathway. A tooth culture study.
11. Fabrication of a novel nanorobot guidance system for endodontic procedures and its implementation un live anima models.
12. Survival to Reintervention Rates and Predictive Variables of Endodontic Treatment: A Retrospective Cohort Study.

Due the excellent level of all projects received it was decided to provide a grant to 4 of the submitted drafts.

1. Efficacy of the GentleWave system to remove biofilm from infected root canal system before or after minimal instrumentation. **30%**
2. Effect of the GentleWave System on Dentin Microhardness and Sealer Penetration: An in Vitro Study. **30%**
3. Egg Shell Derived Nanohydroxyapatite Incorporated Carboxymethyl Chitosan Scaffold Functionalized with Polydopamine Nanoparticles for Pulp-Dentin Regeneration- An Animal Study. **20%**
4. Comparison of inflammatory cytokine levels and oxidative DNA damage in teeth with chronic apical periodontitis in non-smokers, active and passive smokers. **20%**

This is our report.

David E. Jaramillo DDS

Chair Jean-Marie Laurichesse Research Grant Award Committee

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