

Biomaterials, Growth Factors, and Lasers: Next Generation Regenerative Periodontology in 2020

The field of Periodontology is moving at an unprecedented fast pace with new technologies and biomaterials being brought to market faster than ever. This lecture aims to introduce evidence-based technologies from the author of Quintessence's #1 most sold textbook in 2019 titled: "Next Generation Biomaterials for bone and periodontal regeneration". An overview of new Biomaterials will be presented including novel osteoinductive synthetic bone grafts, Tetranite, Emdogain to the development of Osteogain, as well as updates in Platelet Rich Fibrin therapy. Lastly, novel indications and widespread uses of the Fotona laser will be presented as they relate to both periodontal regeneration and facial esthetics.

Learning objectives:

- Better understand the widespread use of lasers in regenerative Periodontology
- Understand the regenerative properties of Emdogain and an introduction to Osteogain
- Updates in platelet rich fibrin and its use in combination with lasers
- Lasers and PRF in facial esthetics - where are we in 2020

Dr. Richard Miron is currently lead educator and researcher at Advanced PRF Education and an Adjunct Visiting Faculty in the department of Periodontology in Bern, Switzerland where he completed his PhD studies since 2009. He has currently published over 150 peer-reviewed articles and lectures internationally on many topics relating to growth factors, bone biomaterials and guided bone regeneration. He has recently been awarded many recent international prizes in dentistry and is widely considered as one of the top contributors to implant dentistry having won the ITI Andre Schroeder Prize, the IADR Young Investigator of the Year in the field of Implant Dentistry, and the American Academy of Implant Dentistry Young Investigator grant award. He has written 2 best-selling textbooks widely distributed in regenerative dentistry including his most recent in 2019 titled: "Next Generation Biomaterials for Bone and Periodontal Regeneration" and a 2nd in 2017 titled: "Platelet Rich Fibrin in Regenerative Dentistry: From Biological Background to Clinical Indications".