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Next Generation Biomaterials for Bone and Periodontal Regeneration

Course Description: Recently our ability to accurately describe biological events that take place during bone regeneration has drastically been improved by advancements made in the fields of cell and molecular biology. The present talk will discuss the future field of osteoinductive materials including the recent advancements made in synthetic osteoinductive bone grafts. Furthermore, the development of a liquid formulation of enamel matrix derivative (Osteogain) for bone and periodontal regeneration, as well as the bone-inducing properties of BMP9 will be discussed.

Objectives:

- Provide the biological background and scientific rationale for why platelet concentrates speed wound healing
- Introduce the low-speed centrifugation concept and the theory behind these advanced PRF formulations
- Provide clinical indications when, where and why to use A-PRF and i-PRF in regenerative dentistry
- Provide key areas for future uses of A-PRF and i-PRF for everyday dental practice

Biography

Richard Miron is currently 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 in 2016, the IADR Young Investigator of the Year in the field of Implant Dentistry in 2015, and the American Academy of Implant Dentistry (AAID) Young Investigator grant award in 2014. He and Dr. Joseph Choukroun have recently edited the first textbook on PRF titled: "Platelet Rich Fibrin in Regenerative Dentistry: From Biological Background to Clinical Indications

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