

Year: 2023

Name of Principal Investigator: Spyridon Papageorgiou
Zurich

Type of Awards: Elite

Affiliated Institution: University of

About of the PI

- **Introduction & Education:**

Completed his orthodontic specialty training / doctorate in Bonn, Germany, completed a MSc in Medical Research Methodology in Thessaloniki, Greece, and a Certificate of Advanced Studies in Orthognathic Surgery.

- **Career Trajectory:**

Has received multiple awards from various societies (American Association of Orthodontist, British Orthodontic Society, European Orthodontic Society) and many consensus-workshops (European Association for Osseointegration, European Federation of Periodontology, Italian Society of Orthodontics).

- **Research Contributions, Impact & Recognition:**

Main contributions include evidence-based recommendations about the efficacy / adverse effects of several therapeutic protocols and identifying sources of bias in clinical research.

- **Personal Insights:**

Highly values balance between work and personal quality of life. Balance is attained professionally through interdisciplinarity with other dental specialties and personally through travels, music, and sport.

- **Future Directions:**

To enrich the evidence-base of clinical orthodontic protocols regarding their efficacy/adverse effects, as well as biological implications to local or systemic health.



Brief Summary of the Project:

In the present study, saliva samples of patients treated either with Invisalign® or 3D-printed aligners and resin attachments will be analyzed with Liquid Chromatography-Ionization-tandem Mass Spectrometry to determine the presence / quantity of BPA, HEMA, TEGDMA, UDMA, bis-GMA and DCGMA at various timepoints before and after appliance / attachment insertion. Additionally, an untargeted analytical approach using liquid chromatography–untargeted High-Resolution Mass Spectrometry with data-dependent acquisition to identify any other released monomers or byproducts without the use of standard reference molecules.