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### *Do we know all about the oral cavity*

A new Within the oral mucosal cavity, the buccal region offers an attractive route of administration for systemic drug delivery. The mucosa has a rich blood supply and it is relatively permeable. It is therefore better suited to the development of sustained-delivery systems. For these reasons, the buccal mucosa may have potential for delivering some of the growing number of drugs, particularly those of low molecular weight, high potency, and/or long biological half-life. Development of safe and effective penetration enhancers will further expand the utility of this route. Local delivery is a relatively poorly studied area; in general, it is governed by many of the same considerations that apply to systemic delivery.

Also, research involving the use of saliva sampling as noninvasive qualitative and quantitative techniques has become increasingly important. Being readily accessible and collectible, saliva may show many advantages over 'classical' biological fluids such as blood and urine. The use of saliva as a specimen matrix for drugs of abuse screening has been cited in the literature for many years. Unlike venipuncture, saliva collection (by brushing the teeth and rubbing the gums) is painless, non-invasive, inexpensive, simple and rapid.

The aim of this presentation is explore these potentials of the oral cavity, to review buccal drug delivery by with an emphasis on bioadhesive delivery systems, and to discuss the use of saliva in drug analysis and in therapeutic and toxicologic monitoring.

### **Biography**

Iyad Abou-Rabii had received his Doctor of Dental Surgery in 1991 and his post graduate Diploma in Oral and Maxillofacial Surgery in 1993. He obtained his Master of Research in Biology and Medicine from Joseph Fourier University in France in 1998 and his PhD in Dental Pharmacology from Auvergne University (France) in 2004. He had joined The University of Warwick in 2011 as the Academic Course Director of the MSc in Implant Dentistry. He is a fellow of The Academy for Dental Facial Esthetics (IADFE) and the President elect of the PTT group in the International Association of Dental Research (IADR).

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