



Genesis, Odontogenesis and Stem Cells

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Abstract:

The tooth provides an excellent system for deciphering the molecular mechanisms of organogenesis, and has thus been of longstanding interest to developmental and stem cell biologists studying embryonic morphogenesis and adult tissue renewal. In recent years, analyses of molecular signaling networks, together with new insights into cellular heterogeneity, have greatly improved our knowledge of the dynamic epithelial-mesenchymal interactions that take place during tooth development and homeostasis. I review recent progress in the field of mammalian tooth morphogenesis and also discuss the mechanisms regulating stem cell-based dental tissue homeostasis, regeneration and repair. These exciting findings help to lay a foundation that will ultimately enable the application of fundamental research discoveries toward therapies to improve oral health.

Biography:

Pavel Niderman is the founder of California Center of Dental Aesthetic and Implantology and

VitaGree Holistic Dental products. He was the former faculty at School of Dentistry, University of San Francisco. He has graduated from Moscow Medical Dental



School and New York University. He is the former Director of San Francisco Dental Society and Proctor Academy of Cosmetic Dentistry. He is a Fellow of International Academy of Dental Implantology. Through Holistic Dental Center, Dr. Niderman offers general and cosmetic dental services with an emphasis on holistic dentistry. He is the member of American and California Dental Association, American Academy of Cosmetic Dentistry, Holistic Dental Association and International Academy of Biological Dentistry and Medicine. He teaches groups of oral surgeons, periodontists and general dentists around the world to perform surgeries on bone and soft tissue grafting, sinus augmentation, implantology, dental materials, biological dentistry and dental aesthetics..

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