

Department of Orthodontis

Welcome to the Department of Orthodontcs. This department is dedicated to advancing the science of orthodontcs and dentofacial orthopedics through research, teaching and clinical practices. The mission of our department is to educate both pre-doctoral dental students and graduate students to be proicient at treating the broad scope of occlusal and dentofacial malocclusions. We also wish to serve the surrounding community as an educational resource and as a provider of quality orthodontc treatment. The pre-doctoral dental students can receive various ethical and laboratory instructions as well as opportunities to gain clinical experience. The graduate program consists of intensive ethical, clinical, and research components. Special emphasis is placed on diagnosis and treatment planning, growth and development, biomechanics, and occlusion, utilizing scientic research to help develop critical thinking and writing skills while making a significant contribution to the scientic literature. We hope you will ind this information useful.

Staff

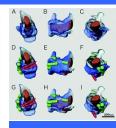
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Professor	Hiroshi KAMIOKA
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Senior Assistant Professor	Takashi IZAWA
Senior Assistant Professor	Satoru HAYANO
Assistant Professor	Hiroki UEDA
Assistant Professor	Masahiro NAKAMURA
Assistant Professor	Mitsuhiro HOSHIJIMA
Assistant Professor	Kana KONO
Assistant Professor	Mana HASHIMOTO

Research

Our research interests are as follows:

- •Mechanical response in articially controlled osteocyte network
- Virtual bone refecting microstructure of real bone
- Visualization of osteocyte mechanotransduction in living bone
- •The new paradigm to search the bioscientic mechanism of malocclusion
- •New approach to the mechanism of the pain caused by orthodontc tooth movement
- •The possible role of autophagy in craniofacial development
- •Investgaton of periodontal tssue regeneraton using human periodontal ligament SP cells
- Investgaton of identicaton and puriicaton of human deciduous tooth-derived stem cells





3D reconstructon of a canaliculus containing an osteocyte process

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Educaton

The graduate program consists of intensive ethical, clinical, and research components. Special emphasis is placed on diagnosis and treatment planning, growth and development, biomechanics, and occlusion. We utlize scientic research to help develop critical thinking and writing skills while making a significant contribution to the scientic literature. The program is designed to provide the broad knowledge and basic skills of orthodontcs and dentofacial deformity, mainly concerning the diagnostic procedure and treatment techniques. It also ofers a wide variety of experience with all ranges of orthodontic patents, including patents with complex problems which require orthognathic surgery, and patents with facial clefs and other craniofacial abnormalities. The program can be combined with a PhD programme of Okayama University, Graduate School of Medicine, Dentstry, and Pharmaceutcal Sciences. The combined postgraduate – PhD programme is of four years duration and grants a PhD degree upon fulfillment of the necessary requirements (mainly a doctoral thesis).

Contact