

# ORAL AND CRANIOFACIAL SCIENCES INTERDISCIPLINARY PH.D.

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The Ph.D. program at UMKC is interdisciplinary. This program is described in more detail in the Oral and Craniofacial Sciences Interdisciplinary Ph.D. Program (<http://catalog.umkc.edu/colleges-schools/graduate-studies/oral-craniofacial-sciences/>) within the Graduate Studies section of this catalog.

Students interested in studies at the doctoral level in the discipline of oral and craniofacial sciences should apply to the Interdisciplinary Ph.D. program in the School of Graduate Studies.

Detailed information on the general and discipline-specific admission requirements for the Ph.D. can be found in the School of Graduate Studies section of this catalog.

## Faculty

### Oral and Craniofacial Sciences Department Chair:

Mark L. Johnson, Ph.D.

### Director of Oral and Craniofacial Sciences Graduate Programs:

Mary P. Walker, D.D.S., Ph.D.

### Faculty:

Mark Johnson, Ph.D.; Mary Walker, D.D.S., Ph.D.; Erin Bumann, D.D.S., Ph.D., M.S.; Timothy Cox, Ph.D.; Sarah Dallas, Ph.D.; Stephan Lohfeld, Ph.D.; Yong Wang, Ph.D.; Melanie Simmer-Beck, Ph.D.

## Courses

OR-BIO 5699 Dissertation Research Credits: 1-12

Ph.D. dissertation research.

OR-BIO 5702 Biomechanics of Mineralized Tissue Credits: 3

The physical principles underlying mineralized tissue biomechanics will be presented at multiple hierarchies. Details of bone, tooth and joint (with a special emphasis on the TMJ) anatomy and function will be outlined as related to mechanical loading.