

Did you know UTSD is home to the John M. Powers, PhD, Houston Center for Biomaterials and Biomimetics?

HCBB is a foundation for School of Dentistry faculty, students, residents and national and international collaborators as they create, study, and transfer new biomaterials, techniques and information for the benefit of dental education, research and patient care. HCBB investigators and clinicians are also widely known for presenting their findings at national and international meetings and forums — increasing visibility and recognition of the center and UTHealth School of Dentistry.

- **Rade Paravina, Director**
- **Office:** SOD-5350
- **Phone:** 713-486-4477
- **Email:** Rade.Paravina@uth.tmc.edu

Read below to learn more. If you have questions contact Lenora Trujillo, Lenora.G.Trujillo@uth.tmc.edu, in School of Dentistry Office of Research for guidance.

READ BELOW TO LEARN MORE ↓↓

The center's goals are to advance the restoration and maintenance of patients' smiles and function, with specialized research in:

- Oral Biomaterials: including mechanical and physical properties.
- Clinical Technology: including CAD/CAM, chairside technologies, and transfer of biomedical technologies to clinical practice.
- Tissue Engineering: using modern tissue-compatible biomaterials and bioprinting to create implantable living cell constructs for oral soft and hard tissues.
- Sustaining Oral Health: including dental disease susceptibility, prevention and control; minimally invasive care; fluoride-releasing materials; and re-mineralizing agents.
- Maxillofacial Prosthodontics: rehabilitation of patients who have lost parts of their faces or mouths to cancer, trauma, birth defects or deformities.
- Color and Appearance: HCBB is a leader in performing research on optical properties of teeth, gingiva and skin and corresponding dental materials; and developing new clinical and teaching products and instruments.

Assistance and mentoring in laboratory and clinical research related to:

- Oral Biomaterials: including mechanical and physical properties.
- Clinical Technology: including CAD/CAM, chairside technologies, and transfer of biomedical technologies to clinical practice.
- Tissue Engineering: using modern tissue-compatible biomaterials and bioprinting to create implantable living cell constructs for oral soft and hard tissues.
- Sustaining Oral Health: including dental disease susceptibility, prevention and control; minimally invasive care; fluoride-releasing materials; and re-mineralizing agents.
- Maxillofacial Prosthodontics: rehabilitation of patients who have lost parts of their faces or mouths to cancer, trauma, birth defects or deformities.
- Color and Appearance: HCBB is a leader in performing research on optical properties of teeth, gingiva and skin and corresponding dental materials; and developing new clinical and teaching products and instruments.

Assistance is available to School of Dentistry:

- Faculty – supporting scholarship of research, promotion and/or tenure-related activities

- Students – summer research, meetings and similar
- Residents – MS and other research projects
- National and international collaborators, Adjunct HCBB members and non-members – to complement research efforts of SOD faculty and students

Depending on the needs and type of collaboration, this assistance might include the following:

- Mentoring
- Developing of research protocol
- Writing proposals
- Education
- Training
- Performing and/or helping with data collection/measurements
- Data processing
- Descriptive and analytical statistics
- Mentoring and assistance with scientific writing such as preparation of presentations, abstracts and manuscripts
- Any other available support in accordance with research nature and goals