



## Celebrate the Unique Contributions of UC Irvine Leaders in Clinical Translational Researchers

### 2014 Interdisciplinary Team Science Award

*The Institute for Clinical and Translational Science is pleased to announce the 2014 Interdisciplinary Team Science Award Recipient. The ICTS Interdisciplinary Team Science Award has been established by the UCI ICTS to celebrate the importance of interdisciplinary teams to the translation of research discoveries into clinical applications and, eventually, clinical practice.*

#### The UC Irvine Pediatric Upper Airway Modeling and Imaging Team

The UC Irvine Pediatric Airway Team is a transdisciplinary collaboration between several departments at UC Irvine as well at UC Irvine and Children's Hospital of Orange County. The team integrates expertise of several teams at UC Irvine in optical coherence tomography (Chen), device design (Wong), computational fluid dynamics (Elghobashi), and clinical expertise (Ahuja) to develop a system to generate real-time 3-D volumetric images of the internal airway structure and estimate airflow dynamics in children. The team evolved from the common goal to develop a means to reliably identify, predict, and manage upper airway obstructive breathing in children. Together they have addressed the problem of designing and constructing a new minimally invasive imaging technology to obtain structural images of the upper airway. Recently, Drs. Wong, Chen, and Elghobashi hosted a workshop with 60 NIH investigators at UC Irvine where the focus was on functional modeling of the pediatric upper airway. The team has received a NIH multiple PI R01 grant, along with several other extra-mural sources of funding and technology has been successfully translated to clinical studies. The team exemplifies interdisciplinary teams and the impact on translation of research discoveries into clinical applications and, eventually, clinical practice

#### Pediatric Upper Airway Team

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