

## Research Center for Quantitative Renal Imaging

### Indiana University-Purdue University Indianapolis

**Mission:** The overall mission of the *Research Center for Quantitative Renal Imaging* is to provide a focused research environment and resource for the development, implementation, and dissemination of innovative, quantitative imaging methods designed to assess the status of and mechanisms associated with acute and chronic kidney disease and evaluate efficacy of therapeutic interventions.

**Nature of the Center:** IUPUI has several established research programs focused on understanding the fundamental mechanisms associated with kidney diseases along with established groups of investigators dedicated to the development of advanced imaging methods and quantitative analyses. This Research Center provides a formal mechanism to link these independently successful research efforts into a focused effort dedicated toward the development and implementation of quantitative renal imaging methods.

The **goals** of the *IUPUI Research Center for Quantitative Renal Imaging* are to:

- Identify, develop, and implement innovative imaging methods that provide quantitative imaging biomarkers for assessing and inter-relating renal structure, function, hemodynamics and underlying tissue micro-environmental factors contributing to kidney disease.
- Establish an environment that facilitates and encourages interdisciplinary collaborations among investigators and offers research support to investigators focused on developing and utilizing innovative quantitative imaging methods in support of kidney disease research.
- Provide a resource to inform the greater research and healthcare communities of advances in quantitative renal imaging and its potential for enhanced patient management and care.
- Offer an imaging research resource to companies engaged in product development associated with the diagnosis and treatment of kidney diseases.

**Further Information:** For further information regarding the *IUPUI Research Center for Quantitative Renal Imaging* and its funding programs please visit <http://www.renalimaging.iupui.edu/> or contact the Center at [renalimg@iupui.edu](mailto:renalimg@iupui.edu).

**Acknowledgments:** The *IUPUI Research Center for Quantitative Renal Imaging* is supported by contributions from the IUPUI Signature Center Initiative, the Department of Radiology & Imaging Sciences; the Division of Nephrology, the IUPUI School of Science, the IUPUI School of Engineering & Technology, and the Indiana Clinical and Translational Sciences Institute (CTSI).