

## Department of Anesthesiology

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### Christians Lab



[Uwe Christians MD, PhD](#)

Primary Appointment: Professor, Anesthesiology  
 Secondary Appointment: Professor, Pathology  
 Professor (apl.) für Experimentelle und Klinische Pharmakologie und Toxikologie, Medizinische Hochschule Hannover, Hannover, Germany

#### Education

- MD (highest honors, "summa cum laude"), Medizinische Hochschule Hannover, Hannover, Germany
- PhD ("Habilitation"), Experimentelle und Klinische Pharmakologie und Toxikologie, Medizinische Hochschule Hannover, Hannover, Germany
- Post-Doctoral Fellowships:
  - Biopharmaceutical Sciences (Dr. L.Z. Benet), University of California, San Francisco
  - Cardiothoracic Surgery and Transplant Immunology (Dr. R.E. Morris), Stanford University Medical School
- Residencies and Board Certifications:
  - Facharzt für Pharmakologie and Toxikologie, Medizinische Hochschule Hannover, Hannover, Germany
  - Facharzt für Klinische Pharmakologie, Medizinische Hochschule Hannover, Hannover, Germany
  - American Board of Clinical Pharmacology

#### Contact Information

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#### Research Interests

My research interests include pharmacokinetic and pharmacodynamic therapeutic drug monitoring, clinical biochemistry, biochemical toxicology, and drug metabolism.

#### Research Description

My research has focused on the interactions between energy metabolism, mitochondrial metabolism and the mTOR pathway. This includes the toxicodynamic interactions between calcineurin and mTOR pathway inhibitors, ageing, metabolic diseases, oxidative stress, ischemia/reperfusion injury and drug-coated coronary stents and balloons.

#### Publications

[Click here for Dr. Uwe Christians' publications on NCBI](#)

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**Anesthesiology (SOM)**  
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