BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.
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NAME	POSITION TITLE
Ulrich Hopfer	Professor Emeritus Physiology and Biophysics
eRA COMMONS USER NAME (credential, e.g., agency login) uhopfer	

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	MM/YY	FIELD OF STUDY
University of Goettingen, Germany	M.D.	1966	Medicine
Johns Hopkins School of Medicine, MD	Ph.D.	1970	Biochemistry
Harvard Medical Sch & Mass General Hosp., MA	Postdoc	1970-71	Biochemistry (Medicine)
Duke University, NC		1985	Mathematical Modeling
Woods Hole Educ. Assoc., Woods Hole, MA		1988	Imaging
University of California at San Diego		2006	Systems Biology

Positions

1972-74 Junior faculty, Biochemistry, Swiss Federal Institute of Technology, Zurich, Switzerland
1974-83 Assistant/Associate Professor, Anatomy, Case Western Reserve University, Cleveland, Ohio
1980-81 Visiting scientist, Max-Planck-Institute for Biophysics, Frankfurt, Germany
1983-88 Professor, Developmental Genetics and Anatomy, CWRU
1986-10 Professor, Physiology and Biophysics, CWRU
1990-09 Director, Imaging Facility, Cystic Fibrosis Center, CWRU
2002-10 Professor of Medicine, CWRU
2010- Professor Emeritus

Honors:

1983 Hoffmann-LaRoche Prize, GI Section, American Physiological Society
1976-81 Research Career Development Award
1975-76 Andrew Mellon Faculty Fellow
1998 J Am Soc Nephrol 9: 143-150 reprint as classical paper: Murer H, Hopfer U, Kinne R, Sodium/proton antiport in brush-border-membrane vesicles isolated from rat small intestine and kidney (Reprinted from Biochem J, vol 154, pg 597-604, 1976)
2012 Symposium homoring Ulrich Hopfer MD, PhD. 3/2/2012 Department of Physiology&Biophysics, CWRU

Professional Societies:

Ohio Physiological Society (treasurer/secretary 1995-1998) (1987), Society of General Physiologists (1984-2008), American Physiological Society (1979-), American Society for Biochemistry and Molecular Biology (1977-2002), American Biophysical Society (1971-)

Consultant/Editor/Editorial Board member:

<u>current</u>
1978-12 NIH ad hoc, including chair of Special Study Sections (1 to 2/year)
1981- Editorial Board, American Journal of Physiology, Cell Physiology
<u>previous</u>
1994-02 Associate editor, News in Physiological Sciences
1991-98 Field editor, Pflügers Archiv, European Journal of Physiology
1981-99 Editorial Board, Biochemical Journal
1978-93 Editorial Board, Membrane Biochemistry

1979-86 Editorial Board, American Journal of Physiology, Gastrointestinal and Liver Physiology
1986-94 Editorial Board, Archives Biochemistry and Biophysics
1975-78, 94-96 American Heart Assoc., Northeast Ohio Affiliate, NEO-Indiana Scientific Advisory Board
1979-91 Cystic Fibrosis Foundation., study section, RDP site visits,

C. Selected Publications (out of 172)

Hopfer U. Sorting out noncanonical, paracrine functions of vitamin D. Editorial focus. Am J Physiol Cell Physiol. 2012 Sep;303(6):C592-4 PMID: 22785118

Li XC, **Hopfer U** and Zhuo JL Novel signaling mechanisms of intracellular angiotensin II-induced NHE3 expression and activation in mouse proximal tubule cells Am J Physiol Renal Physiol (F-00219-2012R2) in press PMID:23034941

Hopfer U. Unraveling the complex mechanosensory machine of solitary cilia. Editorial Focus. Am J Physiol Renal Physiol. 298: F1095, 2010 PMID 20147369

Resnick A and **Hopfer U** (2007) Force-response considerations in ciliary mechanosensation Biophys J. 2007 93(4):1380-90 PMID:17526573

Hopfer, U (2002) A Maxwell's demon type of membrane transport: Possibility for active transport by ABC type transporters? Journal of Theoretical Biology 214, 539-547 PMID:11851366

Gasser KW, DiDomenico J, **Hopfer U**. Secretagogues activate chloride transport pathways in pancreatic zymogen granules. Am J Physiol. 1988 Jan;254(1 Pt 1):G93-9.

Hopfer U, Groseclose R. The mechanism of Na+-dependent D-glucose transport. J Biol Chem. 1980 May 25;255(10):4453-62.

Murer H, **Hopfer U**, Kinne R. Sodium/proton antiport in brush-border-membrane vesicles isolated from rat small intestine and kidney. Biochem J. 1976 Mar 15;154(3):597-604

Murer H, **Hopfer U**. Demonstration of electrogenic Na+-dependent D-glucose transport in intestinal brush border membranes. Proc Natl Acad Sci U S A. 1974 Feb;71(2):484-8. PMID: 4521818

Hopfer U, Nelson K, Perrotto J, Isselbacher KJ Glucose transport in isolated brush border membrane from rat small intestine. J Biol Chem. 1973 Jan 10;248(1):25-32. No abstract available.

Hopfer U, Lehninger AL, Thompson TE. Protonic conductance across phospholipid bilayer membranes induced by uncoupling agents for oxidative phosphorylation. Proc Natl Acad Sci U S A. 1968 Feb;59(2):484-90.