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| *Key qualifications*  *Contact information* | **Director of NIH-funded Lung Physiology Core for last 15 years**  **Exceptional productivity (average of 4.5 publications/year since 2000)**  **Specialist in lung permeability methods**  E-mail, [vogel@uic.edu](mailto:vogel@uic.edu); cellular, 219-742-8002 |
| *Education* | Cornell University, B.S. (Neurobiology & Behavior), 1967 – 71  University of Virginia, Ph.D. (Physiology), 1975 ‑ 80  Dissertation Sponsor: Nicholas Sperelakis |
| *Postgraduate*  *position* | Cornell University  Research Sponsor: Bruce Halpern, 1971 ‑ 75 |
| *Postdoctoral*  *positions* | University of Virginia  Trainee with Nicholas Sperelakis, 1980 ‑ 81  Northwestern University Medical School  Fellow with Toshio Narahashi, 1981 ‑ 85 |
| *Faculty*  *appointments* | University of Illinois College of Medicine:  Assistant Professor of Pharmacology, 1985 - 92  Coordinator of Research in Anesthesiology, 1992 ‑ 96  Adjunct Assistant Professor of Anesthesiology, 1992 ‑ 96  Research Assistant Professor of Pharmacology, 1996 - 2008  Research Associate Professor of Pharmacology, 2008 – 2016  Northwestern University Medical School:  Research Scientist, 2017 - |
| *Research*  *interests* | Lung physiology and pharmacology (isolated lung preparation, normal and transgenic mice); lung pathophysiology in sepsis and genetic determinants of lung microvessel permeability; electrophysiology of endothelial cells |
| *Medical school*  *teaching* | Medical Pharmacology: diuretic agents, antiarrhythmic agents, drug treatment of heart failure, antianginal agents, local anesthetic agents (nomination for Golden Apple Award, Outstanding Teaching, 1995) |
| *Graduate*  *teaching*  *Extramural*  *teaching* | Neuropharmacology course: calcium channels; Vascular Biology course: hypertension, vascular permeability, lung edema  Indiana University Northwest: Medical Pharmacology  Calumet College (Whiting, IN): Organic Chemistry, Human Biology, General Biology, Anatomy & Physiology  Valparaiso University: Advanced Physiology |
| *Society*  *memberships* | American Physiological Society  Biophysical Society  American Heart Association |
| *Awards* | 5 P01 HL077806-07  Malik (PD) 08/01/05-07/31/15  Mechanisms of PMN-Mediated Lung Inflammation and Injury    “Physiology and Imaging Core”, Core C Vogel (PI)  The Core provides centralized physiological and imaging support for each of the 4 projects in the PPG.  Role: PI  . “Homeostatic Regulation of Neutrophil ROS Production and Lung Injury”, Project 2 Ye (PI)  These studies aim to delineate the underlying mechanism for LPS priming of PMN oxidant production, and explore a novel negative regulatory mechanism for its therapeutic potential in controlling ALI.  Role: Co-I  5 P01 HL060678-12 Malik (PD) 03/01/01-02/29/16  Signaling of Endothelial Permeability and Lung Vascular Injury  “Imaging and Physiology Core”, Core D Minshall (PI)  The overall goals of Core D are to provide (i) fluorescence, confocal, and electron microscopy support, (ii) image analysis, and (iii) physiological support for lung perfusion experiments proposed in all projects. Centralization of the imaging and physiological support within a single core reflects the emphasis that P.l.s have placed on imaging and physiological studies in lung models.  Role: Co-I  “TRPC6 Regulation of Lung Endothelial Barrier Function”, Project 3 Mehta (PI)  A rise in intracellular calcium by activating cell contraction leads to formation of pores between endothelial cells through which blood proteins can gain access to interstitium and impair gas exchange in lungs thereby leading to acute lung injury (ALI). We believe proposed studies will provide novel insights into the role of a calcium channel TRPC6 in inducing ALI and will identify TRPC6 as a therapeutic target to prevent ALI.  Role: Co-I  1 P01 HL098050-01A1 Natarajan (PD) 06/01/11-5/31/16  Role of Sphingolipids in the Pathobiology of Lung Injury  “Protective Role of Intracellular S1P in Lung Injury”, Project 1 Natarajan (PI)  This project will evaluate sphingolipid metabolizing genes as ALI targets and address the role of intracellular S1P in protection against lung inflammation and injury.  Role: Co-I |

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### (b) Submitted Manuscripts