Joseph Bond Philips, III, MD

Professor of Pediatrics

ACADEMIC APPOINTMENTS

Year	Rank/Title	Institution
1999- Present	Professor of Pediatrics	University of Alabama at Birmingham
1997- Present	Associate Professor of Physiology & Biophysics	University of Alabama at Birmingham
1987-Present	Associate Professor of Obstetrics & Gynecology	University of Alabama at Birmingham

EDUCATION

Institution	Degree	Year
Washington and Lee University	BS	1971
University of North Carolina	MD	1975

AWARDS/HONORS

2003	American Pediatric Society
2004	Founder's Award, Southern Society for Pediatric Research

MAJOR RESEARCH INTERESTS

Primary laboratory research interests concern the regulation of fetal and neonatal pulmonary vascular tone and remodeling during normal development and in the pathophysiology of major diseases of neonates, such as persistent pulmonary hypertension, bronchopulmonary dysplasia, and sepsis. Whole animal models are used to elucidate the mechanisms of Group B streptococcus and hypoxia-induced pulmonary hypertension and to test potential remedies. Tissue culture is used to explore the role of oxygen tension, pH, and peptide growth factors and other signaling molecules in pulmonary vascular smooth muscle cell growth and remodeling. Clinical research interests include persistent pulmonary hypertension of the newborn, bronchopulmonary dysplasia, sepsis, neonatal immunity, necrotizing enterocolitis, and controlled clinical trials.

Published manuscript:

Clyman, R.; Cassady, G.; Kirklin, J.K.; Collins, M.; and Philips J. B., III: The Role of Patent Ductus Arteriosus Ligation in Bronchopulmonary Dysplasia: Reexamining a Randomized Controlled Trial, In Press, J. Pediatr., 2009.

In Press:

El-Ferzli, G.T.; Philips, J.B.,III; Bulger, A.; and Ambalavanan, N.: A Pumpless Lung Assist Device Reduces Mechanical Ventilation-Induced Lung Injury in Juvenile Piglets, In Press, Pediatr Res., 2009.

Manuscripts submitted but not yet accepted:

1. James, M.L.; Ross, A.C.; Bulger, A.; Philips, J.B.,III; and Ambalavanan, N.: Vitamin A and Retinoic Acid Act Synergistically to Reduce Hyperoxic Lung Injury in Newborn Mice, (submitted) 2009.
2. Soltau, T.D.; Maddox, M.H.; Black, L.V.; Foster, C.; Sims, B.; and Philips, J.B.,III: Aortic Thrombus Leading to Neurolocal Complications in a Newborn, (submitted), 2009.
3. El-Ferzli, G.T.; Philips, J.B.,III; Bulger, A.; and Ambalavanan, N.: Evaluation of a Pumpless Lung Assist Device in Hypoxia-Induced Pulmonary Hypertension in Juvenile Piglets, (submitted), 2009.