

BIOGRAPHICAL SKETCH

NAME	TITLE
Lester Kobzik	Associate Professor

EDUCATION

INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
Tufts University	B.S.	1975	Biology
Tufts University	M.D.	1979	Medicine

Experience

1972-1976	Bioenvironmental Engineer, USAF, Pease AFB, NH
1982-1983	Fellow, Advisory Committee on Reactor Safeguards, US Nuclear Regulatory Commission, Washington, DC
1979-1980	Internship in Medicine, Boston V.A. Medical Center, Boston, MA
1980-1981	Emergency Room Physician, Hubbard Hospital, Webster, MA
1981-1983	Resident in Pathology, Brigham & Women's Hospital, Boston, MA
1983-1986	Research Fellow, Dept. of Pathology, Brigham & Women's, Boston, MA
1986-1987	Instructor, Dept. of Pathology, Brigham & Women's Hospital, Boston, MA
1986-1991	Clinical Investigator Award, NHLBI
1986-1989	Dalsemer Research Scholar, American Lung Association
1986-present	Director, Flow Cytometry Facility, Physiology, Harvard Schl of Public Health, Boston, MA
1987-1996	Assistant Professor, Dept. of Pathology, Brigham & Women's Hospital and Physiology Program, Harvard School of Public Health, Boston, MA
	Associate Professor of Pathology, Harvard Medical School, Boston, MA & Harvard School of Public Health, Boston, MA

Publications (Selected Publications)

- Kobzik, L., J. J. Godleski, and J. D. Brain. 1990. Selective down-regulation of alveolar macrophage oxidative response to opsonin-independent phagocytosis. *J. Immunol.* 144 (11):4312-9.
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- Huang, S., J. D. Paulauskis, and L. Kobzik. 1992. Rat KC cDNA cloning and mRNA expression in lung macrophages and fibroblasts. *Biochem. Biophys. Res. Commun.* 184 (2):922-9.
- Kobzik, L., D. S. Bredt, C. J. Lowenstein, J. Drazen, B. Gaston, D. Sugarbaker, and J. S. Stamler. 1993. Nitric oxide synthase in human and rat lung: immunocytochemical and histochemical localization. *Am. J. Respir. Cell Mol. Biol.* 9 (4):371-7.
- Kobzik, L., S. Huang, J. D. Paulauskis, and J. J. Godleski. 1993. Particle opsonization and lung macrophage cytokine response. In vitro and in vivo analysis. *J. Immunol.* 151 (5):2753-9.
- Kobzik, L., M. Reid, D. Bredt, and J. Stamler. 1994. Nitric oxide in skeletal muscle. *Nature.* 372:546-548.
- Farone, A., S. Huang, J. Paulauskis, and L. Kobzik. 1995. Airway neutrophilia and chemokine mRNA expression in SO₂-induced bronchitis. *Am. J. Respir. Cell Mol. Bio.* 12:345-350.
- Frevert, C., S. Huang, H. Danaee, J. Paulauskis, and L. Kobzik. 1995. Functional characterization of the rat chemokine KC and its importance in neutrophil recruitment in a rat model of pulmonary inflammation. *J. Immunol.* 154:335-344.
- Kobzik, L. 1995. Lung macrophage uptake of unopsonized environmental particulates: role of scavenger-like receptors. *J. Immunol.* 155:367-376.
- Kobzik, L., B. Stringer, J.-L. Balligand, M. Reid, and J. Stamler. 1995. Endothelial type nitric oxide synthase (ec-NOS) in skeletal muscle fibers: mitochondrial relationships. *Biochem. Biophys. Res. Commun.* 211:375-381.
- Stringer, B., A. Imrich, and L. Kobzik. 1995. Flow cytometric assay of lung macrophage uptake of environmental particulates. *Cytometry.* 20:23-32.
- Stringer, B., and L. Kobzik. 1995. Alveolar macrophage uptake of the environmental particulate titanium dioxide: role of surfactant components. *Am. J. Resp. Cell Mol. Biol.* 14:155-160.
- Farone, A., C. Frevert, M. Farone, M. Morin, B. Fields, J. Paulauskis, and L. Kobzik. 1996. Serotype-dependent induction of pulmonary neutrophilia and inflammatory cytokine gene expression by reovirus. *J. Virol.* 70:7079-7084.

- Franke-Ullmann, G., C. Pfortner, P. Walter, C. Steinmuller, M. L. Lohmann-Matthes, and L. Kobzik. 1996. Characterization of murine lung interstitial macrophages in comparison with alveolar macrophages in vitro. *J. Immunol.* 157 (7):3097-104.
- Stringer, B., A. Imrich, and L. Kobzik. 1996. Lung epithelial cell (A549) interaction with unopsonized environmental particulates: quantitation of particle-specific binding and IL-8 production. *Exp. Lung Res.* 22:495-508.
- Taylor, M., J. Paulauskis, and L. Kobzik. 1996. In vitro efficacy of morpholino-modified antisense oligomers directed against tumor necrosis factor-alpha mRNA. *J. Biol. Chem.* 271:17445-17452.
- Weiser, M. R., J. P. Williams, F. D. Moore, Jr., L. Kobzik, M. Ma, H. B. Hechtman, and M. C. Carroll. 1996. Reperfusion injury of ischemic skeletal muscle is mediated by natural antibody and complement. *Journal of Experimental Medicine.* 183 (5):2343-8.
- De Sanctis, G., S. Mehta, L. Kobzik, C. Yandava, A. Jiao, P. Huang, and J. Drazen. 1997. Contribution of Type I (neuronal) nitric oxide (NO) synthase to expired gas NO and bronchial responsiveness in mice. *Am. J. Phys.* 273:L883-L888.
- Goldsmith, D., C. Frevert, C. Sioutas, A. Imrich, and L. Kobzik. 1997. Alveolar macrophage interaction with air pollution particulates. *Environ. Health Perspect.* 105 (S5):1191-1195.
- Imrich, A., and L. Kobzik. 1997. Fluorescence-based measurement of NOS activity in activated rat macrophages using DCFH. *NO Journal.* 1:359-369.
- Kobzik, L. 1997. Methods to isolate and study lung macrophages. In *Lung Macrophages and Dendritic Cells in Health and Disease*. Vol. 102. M. Lipscomb, and S. Russell, editors. Marcel Dekker, Inc., New York. 111-129.
- Stringer, B., and L. Kobzik. 1997. Measurement of environmental particulate uptake by lung cells using flow cytometry. In *Protocols for Flow Cytometry*. Vol. 91. M. Jaroszeski, and R. Heller, editors. Humana Press, Totowa, NJ. 109-116.
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- Cooke, K. R., W. Krenger, G. Hill, T. R. Martin, L. Kobzik, J. Brewer, R. Simmons, J. M. Crawford, M. R. van den Brink, and J. L. Ferrara. 1998. Host reactive donor T cells are associated with lung injury after experimental allogeneic bone marrow transplantation. *Blood.* 92 (7):2571-80.
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- Ning, Y., A. Imrich, C. Goldsmith, K. Hamada, and L. Kobzik. 1998. Air particulate effects on inflammation-primed targets: in vitro and in vivo analysis. In *Measurement of toxic and related air pollutants*. Vol. I. EPA, Cary, NC. 73-84.
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- Ning, Y., C. Goldsmith, A. Imrich, K. Hamada, and L. Kobzik. 2000. Alveolar macrophage cytokine production in response to air particles in vitro: role of endotoxin. *J. Toxicol. Env. Health.* 59:165-180.