

Curriculum Vitae

Yuh-Chin Tony Huang, M.D.

Position

Professor of Medicine
Division of Pulmonary, Allergy and Critical Care Medicine
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Education Background

College of Medicine: National Taiwan University, Taipei, Taiwan
Doctor of Medicine, 7/1/1976-6/30/1983

Graduate School: Department of Environmental Health Sciences
Bloomberg School of Public Health
Johns Hopkins University, Baltimore, Maryland
Master of Health Science, 7/1/1983-6/30/1984

Research Fellowship: Division of Environmental Physiology
Bloomberg School of Public Health
Johns Hopkins University, Baltimore, Maryland, 7/1/1984-6/30/1985

Internship: Department of Internal Medicine
Maryland General Hospital, Baltimore, Maryland, 7/1/1985-6/30/1986

Residency: Department of Internal Medicine
Maryland General Hospital, Baltimore, Maryland, 7/1/1986-6/30/1988

Fellowship: Division of Pulmonary and Critical Care Medicine
Duke University Medical Center, Durham, North Carolina, 7/1/1988-6/30/1991

Professional Experience

Associate in Medicine, Division of Pulmonary and Critical Care Medicine
Duke University Medical Center, Durham, North Carolina, 7/1/1991-2/28/1993

Medical Director, Bronchoscopy, Pulmonary Function and Exercise Laboratories
Durham VA Medical Center, Durham, North Carolina, 7/1/1996-6/30/1999

Assistant Professor, Division of Pulmonary and Critical Care Medicine
Duke University Medical Center, Durham, North Carolina, 3/1/1993-7/31/1999

Adjunct Assistant Professor, Division of Pulmonary and Critical Care Medicine
Duke University Medical Center, Durham, North Carolina, 8/1/1999-4/30/2001

Clinical Assistant Professor, Division of Pulmonary and Critical Care Medicine
University of North Carolina Memorial Hospital, Chapel Hill, North Carolina,
7/1/1999-6/30/2001

Research Medical Officer, Clinical Research Branch, Human Studies Division
US Environmental Protection Agency, Chapel Hill, North Carolina,
8/1/1999-7/30/2006

Associate Consulting Professor, Division of Pulmonary and Critical Care Medicine
Duke University Medical Center, Durham, North Carolina, 5/1/2001-7/30/2006

Clinical Associate Professor, Division of Pulmonary and Critical Care Medicine
University of North Carolina Memorial Hospital, Chapel Hill, North Carolina,
7/1/2001-6/30/2007

Adjunct Associate Professor, Curriculum in Toxicology

University of North Carolina, Chapel Hill, North Carolina, 1/1/2005-7/30/2006

Staff Physician, Section of Pulmonary and Critical Care Medicine

Durham VA Medical Center, Durham, North Carolina, 7/1/1991-6/30/2017

Visiting Scientist, Clinical Research Branch, Human Studies Division

US Environmental Protection Agency, Chapel Hill, North Carolina,

7/30/2006-present

Intensivist, Critical Care Unit

Duke Regional Hospital, Durham, North Carolina, 7/31/2006-present

Professor of Medicine (tenured), Division of Pulmonary, Allergy and Critical Care
Medicine

Duke University Medical Center, Durham, North Carolina, 10/1/2007-present

Publications

1. Weinmann GG, **YC Huang** and W Mitzner. Effect of high-frequency ventilation on lung mechanics at high transpulmonary pressure. J Appl Physiol 63: 1544-1550, 1987.
2. **Huang YC**, GG Weinmann and W Mitzner. Effect of tidal volume and frequency on the temporal fall in the lung compliance. J Appl Physiol 65:2040-2045, 1988.
3. Chang L, FJ Miller, J Ultman, **Y Huang**, BL Stockstill, E Grose, JA Graham, JJ Ospital and JD Crapo. Alveolar epithelial cell injuries by subchronic exposure to low concentrations of ozone correlate with cumulative exposure. Toxicol Appl Pharmacol 109:219-234, 1991.
4. **Huang YC** and NR MacIntyre. Real-time gas analysis improves the measurements of single breath diffusing capacity ($DL_{CO}(SB)$). Am Rev Respir Dis 146(4): 946-950, 1992.
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6. Dodam JR, RE Moon, MC Olson, AJ Exposito, TA Fawcett, **YC Huang**, DR Theil, E Camporesi and CR Swanson. Effects of clenbuterol hydrochloride on pulmonary gas exchange and hemodynamics in anesthetized horses. Am J Vet Res 54(5): 776-782, 1993.
7. Fisher PW, **YCT Huang**, TP Kennedy and CA Piantadosi. PO_2 dependent injury and hydroxyl radical production during pulmonary ischemia-reperfusion. Am J Physiol (Lung Cell Mol Physiol) 265: L279-L285, 1993.
8. Stockwell JA, **YCT Huang**, Y-F Su and CA Piantadosi. Bactericidal antibiotics increase tumor necrosis factor- α (TNF) and cardiac output in rats after cecal ligation and puncture. Cir Shock 42(2): 68-75, 1994.
9. **Huang YC**, TA Fawcett, RE Moon, PJ Fracica, SP Caminiti, FJ Miller, SL Young and

- CA Piantadosi. Natural surfactant and hyperoxic lung injury in primates. I. Physiology and Biochemistry. J Appl Physiol 76(3): 991-1001, 1994.
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 11. **Huang YC**, MJ Helms and NR MacIntyre. Normal values for single exhalation diffusing capacity and pulmonary capillary blood flow in sitting, supine positions and during mild exercise. Chest 105: 501-508, 1994.
 12. **Huang YC**, PJ Fracica and CA Piantadosi. Tumor necrosis factor- α -induced lung injury and its modulation by a synthetic polynucleotide: A physiologic-morphometric analysis. Exp Lung Res 20: 539-557, 1994.
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 14. Nozik ES, **YCT Huang** and CA Piantadosi. L-arginine causes pulmonary hypertension and edema in the isolated rabbit lung during hyperoxia. Respir Physiol 100: 63-74, 1995.
 15. **Huang YC**, AC Sane, SG Simonson, TA Fawcett, RE Moon, PJ Fracica, MG Menache, CA Piantadosi and SL Young. Artificial surfactant attenuates hyperoxic lung injury in primates. I. Physiology and Biochemistry. J Appl Physiol 78(5): 1816-1822, 1995.
 16. Piantadosi CA, PJ Fracica, FG Duhaylongsod, **YCT Huang**, KE Welty-Wolf, JD Crapo and SL Young. Artificial surfactant attenuates hyperoxic lung injury in primates. II. Morphometric Analyses. J Appl Physiol 78(5): 1823-1831, 1995.
 17. Welty-Wolf KE, SG Simonson, **YCT Huang**, PJ Fracica, JW Patterson and CA Piantadosi. Ultrastructural changes in skeletal muscle mitochondria in gram-negative sepsis. Shock 5(5): 378-384, 1996.
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 21. Simonson SG, **YCT Huang**, PJ Fracica, KE Welty-Wolf, RE Moon, SL Young and CA Piantadosi. Changes in the lung after prolonged positive pressure ventilation in

- normal baboons. J Crit Care 12: 72-82, 1997.
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- Physiol) 275: L96-L102, 1998.
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 51. **Huang YCT**, ZW Li, SD Harder and JM Soukup. Apoptotic and inflammatory effects induced by different particles in human alveolar macrophages. Inhal Toxicol 16:863-878, 2004.
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 53. Lee DL, HT Chiang, SL Lin, HW Chang and **YCT Huang**. Heliox improves hemodynamics in mechanically ventilated COPD patients with pulsus paradoxicus. Crit Care Med 33(5):968-973, 2005.
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60. Arredouani M, A Palecanda, H Koziel, **YC Huang**, A Imrich, TH Sulahian, YY Ning, Z Yang, T Pikkarainen, M Sankala, S Vargas, M Takeya, K Tryggvason and L Kobzik. MARCO is the major binding receptor for unopsonized particles and bacteria on human alveolar macrophages. J Immunol 175(9):6058-6064, 2005.
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64. **Huang YC** and AJ Ghio. Vascular effects of ambient pollutant particles and metals. Current Vasc Pharmacol 4:199-203, 2006.
65. **Huang YCT**, SR O'Brien, J Vredenburg, RJ Folz, NR MacIntyre. Intra-breath analysis of carbon monoxide uptake during exercise in patients at risk for lung injury. Resp Med 100:1226-1233, 2006.
66. **Huang YCT**, MA Bassett, D Levin, T Montilla and AJ Ghio. Acute phase reaction in healthy volunteers after bronchoscopy with lavage. Chest 129:1565-1569, 2006.
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69. Karoly ED, ZW Li, LA Dailey, X Hyseni, JM. Samet and **YCT Huang**. Up-regulation of tissue factor in human pulmonary artery endothelial cells after ultrafine particle exposure. Environ Health Perspect 115: 535-540, 2007.
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252-257, 2007.

71. Samet JM, D Graff, J Berntsen, AJ Ghio, **YC Huang** and RB Devlin. A comparison of studies on the effects of controlled exposure to fine, coarse and ultrafine ambient particulate matter from a single location. Inhal Toxicol 19 Suppl 1:29-32, 2007
72. **Huang YC**. Lung compliance measurement in mice. Am J Physiol (Lung Cell Mol Physiol) 294:L815, 2008.
73. MacIntyre NR and **YC Huang**. Acute exacerbations and respiratory failure in COPD. Proc Am Thorac Soc, 5:530-535, 2008.
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75. **Huang YCT**, Z Li, X Hyseni, M Schmitt, RB Devlin, ED Karoly and JM Soukup. Identification of gene biomarkers for respiratory syncytial virus infection in a bronchial epithelial cell line. Genomic Med 2:113-125, 2008.
76. **Huang YC**, Z Li, JD Carter, JM Soukup, DA Schwartz and IV Yang. Fine ambient particles induce oxidative stress and metal binding genes in human alveolar macrophages. Am J Respir Cell Mol Biol 41:544-552, 2009.
77. Samet JM, A Rappold, D Graff, WE Cascio, JH Berntsen, **YCT Huang**, M Herbst, M Bassett, T Montilla, MJ Hazucha, PA Bromberg and RB Devlin. Acute health effects of exposure to ultrafine particulate matter concentrated from ambient air. Am J Respir Crit Care Med 179:1034-1042, 2009.
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- Devlin. Comparison of gene expression profiles induced by coarse, fine, and ultrafine particulate matter. J Toxicol Environ Health A 74:296-312, 2011.
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 85. **Huang YCT**, RD Brook. The Clean Air Act: science, policy and politics (editorial). Chest, 140:1-2, 2011.
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 87. Johnson DB, MA Powers, SY Wu and **YCT Huang**. Follow-up recommendations in chest CT reports for incidental pulmonary nodules. Chest 141:280-281, 2012.
 88. **Huang YCT**, M Al-Hegelan. Adverse effects of outdoor air pollution. Clin Pulm Med, 19(1):14-20, 2012.
 89. Tsuang W and **YCT Huang**. Asthma induced by exposure to spray polyurethane foam in a residential home. J Occup Environ Med, 54(3):272-273, 2012.
 90. Hyseni X, JM Soukup and **YCT Huang**. Pollutant particles increase arginase II expression in human bronchial epithelial cells, J Toxicol Environ Health A 75:624-636, 2012.
 91. **Huang YC**, AG Rappold, DW Graff, AJ Ghio and RB Devlin. Synergistic effects of exposure to concentrated ambient air pollution particles and nitrogen dioxide in humans, Inhal Toxicol 24:790-797, 2012.
 92. Chien JY, SY Ruan, **YCT Huang**, CJ Yu and PC Yang. Asynchronous thoraco-abdominal motion contributes to decreased six-minute walk test in patients with chronic obstructive pulmonary disease. Resp Care 58:320-326, 2013.
 93. **Huang YCT**. The role of in vitro gene expression profiling in particulate matter health research. J Toxicol Environ Health B 16:381-394, 2013.
 94. Huang JJ, JM Soukup, AJ Ghio and **YCT Huang**. Host and environmental factors affect pulmonary responses measured in bronchoalveolar lavage. Inhal Toxicol 26:30-35, 2014.
 95. Yen H, **YC Huang**, LM Hurwitz, MJ Miller and WM Tsuang. A pulmonary arteriovenous malformation growing for 35 years comes to an end. Am J Respir Crit Care Med 189:356-357, 2014.
 96. Alexis NE, **YCT Huang**, AG Rappold, H Kehrl, RB Devlin, DB Peden. Asthmatics demonstrate airway inflammation following exposure to concentrated ambient particulate matter. Am J Respir Crit Care Med 190:235-237, 2014.
 97. Wang CY, TT Chao, FY Chang, YL Chen, YT Tsai, HI Lin, **YCT Huang**, CW Shiau, CJ

- Yu and KF Chen. CIP2A mediates erlotinib-induced apoptosis in non-small cell lung cancer cells without EGFR mutation. Lung Cancer 85:152-160, 2014.
98. **YCT Huang** and WM Tsuang. Health effects associated with faulty application of spray polyurethane foam in residential homes. Environ Res 134:295-300, 2014.
99. Chao TT, CY Wang, CC Lai, YL Chen, FY Chang, PT Chen, HI Lin, **YCT Huang**, CW Shiau, CJ Yu and KF Chen. TD-19, an erlotinib derivative, induces EGFR wild-type NSCLC apoptosis through CIP2A-mediated pathway. J Pharmacol Exp Ther 351:352-358, 2014.
100. **Huang YCT**. Outdoor air pollution: a global perspective. J Occup Environ Med 56 Suppl 10:S3-7, 2015.
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105. He M, B Driehuys, LG Que and **YCT Huang**. Using hyperpolarized ¹²⁹Xe MRI to quantify the pulmonary ventilation distribution. Acad Radiol, 23:1521-1531, 2016. PMID: 27617823
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110. Wang Z, M He, E Bier, B Soher, J Mammarrappallil, S Rajagopal, **YC Huang**, and B Driehuys. Hyperpolarized ¹²⁹Xe Gas Transfer MRI: The Transition from 1.5 to 3 Tesla. *Magnetic Resonance in Medicine*, in press, 2018.