

bv(updated: Jan. 2024)

Curriculum Vitae

Given Name: **Lizhong**

Family name: **Du**

Sex: Male

Place of birth: Hangzhou , Zhejiang, China

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Department of Pediatrics
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Education and Degrees:

March 1978-December 1982: Bachelor Degree, Zhejiang Medical University

Sept 1985-July 1990: Doctoral Degree (PhD) , Zhejiang Medical University

Post-graduate training:

January 1983-1985: Resident Pediatric department and neonatal intensive care unit (NICU) of the Children's Hospital, Zhejiang Medical University

Nov 1985-Feb 1986: Trainee NICU of University of Virginia medical Center and Boston Children's Hospital, USA

Academic Appointment

Oct 1997-present: Professor of Pediatrics, Zhejiang University School of Medicine

Professional experiences:

Sept 1991-June 2002: Vice-director, Division of Neonatology and NICU, the Children's Hospital, Zhejiang University School of Medicine

June 2002- present: Director, Division of Neonatology and NICU, Children's Hospital, Zhejiang University School of Medicine

Jan 1996-June 2009: Vice- President, Children's Hospital, Zhejiang University School of Medicine

June 2009 – June 2017: President, Children's Hospital, Zhejiang University School of Medicine

Visiting Scholar:

Nov 1985-Feb 1986: Visiting scholar, NICU, University of Virginia(Nov 1985-Jan 1986) and Boston Children's (Jan-Feb 1986)

June 1991-Sept 1991: Visiting scholar, NICU of West Virginia University Medical Center (USA)

June 1994-June 1995: Visiting scholar, NICU of University of Picardie, Amiens, France

National Committees

Oct 1997-2003: member - Executive committee of Chinese Pediatric Society Section in Neonatology

Oct 2003- June 2007: Vice chairman of Chinese Pediatric Society Section in Neonatology

June 2005- present: Vice Chairman of Pediatric Society of Zhejiang Province

June 2007- March 2019: Chairman of Chinese Pediatric Society Section in Neonatology

Membership – National and International

Chinese Pediatric Society – Section in Neonatology (1997-present)

Societies for Pediatric Research (SPR) (USA) (2008-present)

Journal Editorial Member

2017-present: Editorial Member of *The Journal of Pediatrics*

Research interests:

Research has focused on the management of neonatal respiratory failure and pulmonary hypertension of the newborn, neonatal jaundice and other critical problems of the newborn. Research funding includes 8 Natural Science Foundation of China (NSFC) grants.

***Publications:** (* corresponding author, English language only)

1. Chen Zhimin, Mao Jianhua, Du Lizhong. Association of cytokine responses with disease severity in infants with respiratory syncytial virus infection. *Acta Paediatr.*

- 2002; 91(9):914-22 (supervisor)
2. *Du Lizhong, Shi Liping, Sun Meiyue. Inhaled nitric oxide in preterm and term neonates with hypoxemic respiratory failure and persistent pulmonary hypertension. *Acta Pharmacol Sin.* 2002; 23suppl:69-73 (corresponding author)
 3. Shang S, Fu J, Dong G, *Du L, Yu X. Establishment and analysis of specific DNA patterns in 16S-23S rRNA gene spacer regions for differentiating different bacteria. *Chin Med J (Engl)*. 2003 Jan; 116(1):129-33.
 4. Tang LF, *Du LZ, Chen ZM, Zou CC. Extracellular matrix remodeling in children with airway foreign-body aspiration. *Pediatr Pulmonol.* 2004 Aug; 38(2):140-5. (corresponding author)
 5. Tang LF, Du L, Zou CC, Gu WZ. Levels of matrix metalloproteinase-9 and its inhibitor in guinea pig asthma model following ovalbumin challenge. *Fetal Pediatr Pathol.* 2005 Mar-April; 24(2):81-87 (corresponding author)
 6. An Chen, *Lizhong Du, Yaping Xu, Liqing Chen and Yidong Wu. The Effect of Blue Light Exposure on the Expression of Circadian Genes: *Bmal1* and *Cryptochrome 1* in Peripheral Blood Mononuclear Cells of Jaundiced Neonates. *Pediatr Res.* 2005; 58:1180-84 (corresponding author)
 7. Shang S, Chen G, Wu yi, Du L. Rapid diagnosis of bacterial sepsis with PCR amplification and microarray hybridization in 16S rRNA gene. *Pediatr Res.* 2005 Jul; 58(1):143-8. Epub 2005; Jun 27.
 8. Lu Meiping, *Du Lizhong, Gu Weizhong. Nitric oxide inhalation inhibits inducible nitric oxide synthase but not nitrotyrosine formation and cell apoptosis in rat lungs with meconium-induced injury. *Acta Pharmacol Sin.* 2005 Sep; 26(9):1123-9 (corresponding author)
 9. Tang LF, *Du Lizhong, Chen ZM, Zou CC Levels of matrix metalloproteinase-9 and its inhibitor in bronchoalveolar lavage cells of asthmatic children. *Fetal Pediatr Pathol.* 2006 Jan-Feb; 256(1):1-7. (corresponding author)
 10. Ge Sun, *Du Lizhong. Cord blood bilirubin level in relation to bilirubin UDP-glucuronosyltransferase gene missense allele in Chinese neonates. *Acta Paediatrica* 2007, 96,1622–1625 (corresponding author)
 11. Xiu min Wang, Li Liang and *Lizhong Du. The effects of intrauterine undernutrition on pancreas ghrelin and insulin expression in neonate rats. *Journal of Endocrinology* 2007; 194, 121-129 (corresponding author)
 12. Wu YD, Chen LH, Wu XJ, Shang SQ, Lou JT, *Du LZ, Zhao ZY. Gram stain-specific-probe-based real-time PCR for diagnosis and discrimination of bacterial neonatal sepsis. *J Clin Microbiol.* 2008 Aug; 46(8):2613-9. Epub 2008 Jun 11
 13. Xiaolu Ma, *Lizhong Du. The clinical outcomes of late preterm infants: a multi-center survey of Zhejiang, China. *J Perinat Med.* 2009; Jul 10 (corresponding author)
 14. Xiling Wu, *Lizhong Du, Xuefeng Xu, Increased Nitrosogluthione Reductase Activity in Hypoxic Pulmonary Hypertension in Mice. *Journal of Pharmacological Sciences* 2010; April 22, (corresponding author)
 15. Xue-Feng Xua, Xiao-Lu Maa, Zheng Chen, Li-Ping Shi and Li Zhong Du. Clinical characteristics of nosocomial infections in neonatal intensive care unit in eastern China. *J Perinat Med.* 2010, 38(4) (corresponding author)

16. XUE-FENG XU, WEI-ZHONG GU, XI-LING WU, RU-YI LI, & *LI-ZHONG DU. Fetal Pulmonary Vascular Remodeling in a Rat Model Induced by Hypoxia and Indomethacin. *The Journal of Maternal-Fetal & Neonatal Medicine*, 2011 Jan;24(1):172-82 (corresponding author)
17. Xu, Xue-Feng; Ma, Xiao-Lu; Shen, Zheng; Wu, Xi-Ling; Cheng, Fen; *Du, Li-Zhong. Epigenetic regulation of the endothelial nitric oxide synthase gene in persistent pulmonary hypertension of the newborn rat. *Journal of Hypertension*, 2010, November 28(11)2227–2235 (corresponding author)
18. He Y, Jiang GP, Zhao L, Qian JJ, Yang XZ, Li XY, Du LZ, Shu Q. Ultrasonographic characteristics of urolithiasis in children exposed to melamine-tainted powdered formula. *World J Pediatr*. 2009 May;5(2):118-21. Epub 2009 Jul 9.
19. Dan Xu & Shuxian Li & Zhimin Chen & *Lizhong Du. Detection of *Mycoplasma pneumoniae* in different respiratory specimens. *Eur J Pediatr*. Epub Nov 2010 (corresponding author)
20. MA Xiao-lu, XU Xue-feng, CHEN Chao, YAN Chao-ying, LIU Ya-ming, LIU Ling, XIONG Hong, SUN Hui-qing, LAI Jian-pu, YI Bin, SHI Jing-yun, DU Li-zhong*. Epidemiology of respiratory distress and the illness severity in late preterm or term infants: a prospective multi-center study. *Chin Med J* 2010;123(20):2776-2780 (corresponding author)
21. XU Xue-feng and DU Li-zhong. Epigenetics in neonatal diseases. *Chin Med J* 2010;123(20):2948-2954 (corresponding author)
22. Xue-Feng Xu, Fen Cheng and Li-Zhong Du*. Epigenetic regulation of pulmonary arterial hypertension. *Hypertension Research* 2011.34, 981-986 (corresponding author)
23. Xu Yan-ping Xu, Jia-jun Zhu, Fen Cheng, Ke-wen Jiang, Wei-zhong Gu, Zheng Shen, Yi-dong Wu, Li Liang, and Li-zhong Du*. Ghrelin ameliorates hypoxia-induced pulmonary hypertension via phospho-GSK3 β / β -catenin signaling in neonatal rats. *J Mol Endocrinol* 2011 47 33-43 (corresponding author)
24. Xue-Feng Xu, Wei-Zhong Gu, Xi-Ling Wu, Ru-Yi Li, & Li-Zhong Du*. Fetal Pulmonary Vascular Remodeling in a Rat Model Induced by Hypoxia and Indomethacin. *The Journal of Maternal-Fetal & Neonatal Medicine*, 2011 Jan;24(1):172-82 (corresponding author)
25. Zhu J, Xu Y, Zhang G, Wu M, *Du L. Total serum bilirubin level in umbilical cord blood and respiratory distress syndrome in very low birth weight infants. *J Perinat Med*. 2011 Nov 16;40(1):91-5. (corresponding author)
26. Zhu J, Xu Y, Zhang G, Bao Y, Wu M, *Du L. Total serum bilirubin levels during the first 2 days of life and subsequent neonatal morbidity in very low birth weight infants: a retrospective review. *Eur J Pediatr*. 2012 Apr;171(4):669-74 (corresponding author)
27. Xu Y, Ke H, Liang L, Wang X, Pei J, *Du L. PEG-rhGH therapy for small for gestational age rats and effects on their metabolic parameters. *Horm Res Paediatr*. 2011;76(1):35-43 (corresponding author)
28. Dan Xu & Shuxian Li & Zhimin Chen & *Lizhong Du. Detection of *Mycoplasma pneumoniae* in different respiratory specimens. *Eur J Pediatr*. 2011 Jul;170(7):851-8 (corresponding author)
29. Wu, Xiling; *Du, Lizhong; Wang, Xiumin. Congenital Monoblastic Leukemia Presenting

- as Jaundice, Pleural Effusion, and Ascites: Case Report and Literature Review. *Fetal and Pediatric Pathology*,2011; 30(1):27-31(5) (corresponding author)
30. Jiang L, Wu YD, Xu XF, *DU LZ. Polymorphism analysis of the ABCA3 gene: association with neonatal respiratory distress syndrome in preterm infants. *Chin Med J (Engl)*. 2012 May;125(9):1594-8(corresponding author)
 31. Xue-Feng Xu, Ying Lv, Wei-Zhong Gu, Li-Li Tang, Jia-Kai Wei, Li-Yan Zhang and Li-Zhong Du*. Epigenetics of hypoxic pulmonary arterial hypertension following intrauterine growth retardation rat: epigenetics in PAH following IUGR. *Respiratory Research* 2013,14:20 (doi:10.1186/1465-9921-14-20) (corresponding author)
 32. *Lizhong Du, Xiaolu MA. International Perspectives: Hyperbilirubinemia and Kernicterus in Neonates in China. *Neoreviews* 2012; 13:e141-e144(corresponding author)
 33. Yu Y, *Du L, Yuan T, Zheng J, Chen A, Chen L, Shi L. Risk factors and clinical analysis for invasive fungal infection in neonatal intensive care unit patients. *Am J Perinatol*; 2013, 30(7):589-94. *(corresponding author)
 34. Ying Lv , Li-Li Tang , Jia-Kai Wei , Xue-Feng Xu , Weizhong Gu , Lin-Chen Fu , Li-Yan Zhang , *Li-Zhong Du.Decreased Kv1.5 expression in intrauterine growth retardation rats with exaggerated pulmonary hypertension. *American Journal of Physiology - Lung Cellular and Molecular Physiology*. 2013; 305(11):L856-865 *(corresponding author)
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 37. Li-Li Tang, Li-Yan Zhang, Lin-Jiang Lao, Qiong-Yao Hu, Wei-Zhong Gu, Lin-Chen Fu, Li-Zhong Du*. Epigenetics of Notch1 regulation in pulmonary microvascular rarefaction following extrauterine growth restriction. *Respiratory Research*. 2015,16:66;1-10*(corresponding author)
 38. Hui-Jia Lin, Li-Zhong Du* , Xiao-Lu Ma, Li-Ping Shi, Jia-Hua Pan, et al. Mortality and Morbidity of Extremely Low Birth Weight Infants in the Mainland of China: A Multi-center Study. *Chinese Medical Journal*, 2015;128(20):2743-2750*(corresponding author)
 39. Angelo A. Lamola*,Vinod K. Bhutani, Lizhong Du, Martin Castillo Cuadrado, Lihua Chen, Zheng Shen,Ronald J. Wong,David K. Stevenson. Neonatal bilirubin binding capacity discerns risk of neurological dysfunction. *Pediatric Research*,2015;
 40. Chen-Hong Wang, Li-Zhong Du, Xiao-Lu Ma,et al. Analysis of In-hospital Neonatal Death in the Tertiary Neonatal Intensive Care Unit in China: A Multicenter Retrospective Study. *Chinese Medical Journal* ;November 2016*(corresponding author)
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MiR-126a-5p is involved in the hypoxia-induced endothelial-to-mesenchymal transition of neonatal pulmonary hypertension. *Hypertens Res*. 2017 Jun;40(6):552-561*(corresponding author)
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- premature infants: a meta-analysis with trial sequential analysis. *BMC Pulmonary Medicine* (2017) 17:207*(corresponding author)
43. Yu Wang, Lingling Yan, Ziming Zhang, Eric Prado, Linchen Fu, Xuefeng Xu and Lizhong Du*. Epigenetic Regulation and its therapeutic potential in pulmonary hypertension. *Front Pharmacol* 2018, 20 Mar 1-29. *(corresponding author)
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 45. Huijia Lin, Shanshan Mao, Liping Shi, Jinfa Tou & *Lizhong Du. Clinical characteristic comparison of low birth weight and very low birth weight preterm infants with neonatal necrotizing enterocolitis: a single tertiary center experience from eastern China. *Pediatr Surg Int* (2018) 34:1201-1207*(corresponding author)
 46. Xu XF, Xu SS, Fu LC, Hu QY, Lv Y, *Du LZ. Epigenetic changes in peripheral leucocytes as biomarkers in intrauterine growth retardation rat. *Biomed Rep.* 2016 Nov;5(5):548-552. Epub 2016 Oct 11*(corresponding author)
 47. Q. He, X. Liu, Y. Zhong, S.S. Xu, Z.M. Zhang, L.L. Tangb, L.Y. Zhang, L.Z. Du*. Arginine bioavailability and endothelin-1 system in the regulation of vascular function of umbilical vein endothelial cells from intrauterine growth restricted newborns. *Nutrition, Metabolism & Cardiovascular Diseases* 2018,(28)1285-1295*(corresponding author)
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 50. Lv Y, Fu L, Zhang Z, Gu W, Luo X, Zhong Y, Xu S, Wang Y, Yan L, Li M, Du L*. Increased Expression of MicroRNA-206 Inhibits Potassium Voltage-Gated Channel Subfamily A Member 5 in Pulmonary Arterial Smooth Muscle Cells and Is Related to Exaggerated Pulmonary Artery Hypertension Following Intrauterine Growth Retardation in Rats. *J Am Heart Assoc.* 2019 Jan 22;8(2):e010456. doi: 10.1161/JAHA.118.010456*(corresponding author)
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53. Yu Wang, S Dai, C Cheng, L Yan, E Prado, J Hu, Q He, Y Lv, L Du*. Notch3 signaling activation in smooth muscle cells promotes extrauterine growth restriction-induced pulmonary hypertension. *Nutrition, Metabolism & Cardiovascular Diseases* Nutrition, Metabolism & Cardiovascular Diseases. 2019, 29, 6, 639-651 *(corresponding author)
54. Xinyu Cheng, Yu Wang, Lizhong Du*. Epigenetic Modulation in the Initiation and Progression of Pulmonary Hypertension. *Hypertension* 2019 ; 74 (4), 733-739*(corresponding author)
55. Zeqin Zhang, Johanne Tremblay, John Raelson, Tamar Sofer, Lizhong Du, Qiang Fang, Maria Argos, Francois-Christophe Marois-Blanchet, Yu Wang, Lingling Yan, John Chalmers, Mark Woodward, Stephen Harrap, Pavel Hamet, Hongyu Luo, Jiangping Wu. EPHA4 Regulates Vascular Smooth Muscle Cell Contractility and Is a Sex-Specific Hypertension Risk Gene in Individuals With Type 2 Diabetes *J Hypertens*.2019 37 (4), 775-789
56. Yingfang Yu, Lizhong Du*, An Chen, Lihua Chen. Study of Gilbert's Syndrome-Associated UGT1A1 Polymorphism in Jaundiced Neonates of ABO Incompatibility Hemolysis Disease. *Am J Perinatol*, 2019 May 14[Online ahead of print]*(corresponding author)
57. Xiao-Lu Ma, Zheng Chen, Jia-Jun Zhu, Xiao-Xia Shen, Ming-Yuan Wu, Li-Ping Shi, Li-Zhong Du, Jun-Fen Fu, Qiang Shu. Management Strategies of Neonatal Jaundice During the Coronavirus Disease 2019 Outbreak. *World J Pediatr*, 2020 Feb 28[Online ahead of print]
58. Lizhong Du, Xiaomei Tong, Chao Chen, Xirong Gao, Alessandra Gagnatelli, Jingyang Li, Debora Santoro, Sara Nicolardi and Laura Fabbri* for the Peyona Chinese Study Group. Caffeine citrate for apnea of prematurity: a prospective, open label, single-arm study in Chinese neonates. *Frontiers in Pediatrics*, 2020, March, Volume 8, doi.org/10.3389/fped.2020.00076
59. Zhu J, Bao Y, Du L, Huang H, Lv Q, Jiang Y, Dai Y, Chen Z, Shi J, Shi Y, Yang C, Mei H, Jiang H, Sun Y, Sun X. Less invasive surfactant administration versus endotracheal surfactant instillation followed by limited peak pressure ventilation in preterm infants with respiratory distress syndrome in China: study protocol for a randomized controlled trial. *Trials*. 2020 Jun 11;21(1):516. doi: 10.1186/s13063-020-04390-3*(corresponding author)
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61. Lin S, Du L. The therapeutic potential of BRD4 in cardiovascular disease. *Hypertens Res*. 2020 May 14. doi: 10.1038/s41440-020-0459-4. *(corresponding author)
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- Neonatal Network Data Collection System. *Front Pediatr*3.4182021 (corresponding author)
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67. Yun Cao,MD, PhD; Siyuan Jiang, MD, PhD; Jianhua Sun, MD; Mingyan Hei, MD, PhD; LaishuanWang,MD, PhD; Huayan Zhang, MD; Xiaolu Ma, MD; HuiWu,MD, PhD., Xiaoying Li, MD, PhD; Huiqing Sun, MD, PhD;Wei Zhou, MD, PhD; Yuan Shi, MD, PhD; YanchenWang, MSC; Xinyue Gu, MSC; Tongling Yang, RN; Yulan Lu, PhD; Lizhong Du, MD, PhD; Chao Chen, MD, PhD; Shoo K. Lee, PhD;Wenhao Zhou, MD, PhD; for the Chinese Neonatal Network. Assessment of Neonatal Intensive Care Unit Practices, Morbidity, and Mortality Among Very Preterm Infants in China. *JAMA Network Open*. 2021;4(8):e2118904. doi:10.1001/jamanetworkopen.2021.18904
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69. Yinying Bao, Jiajun Zhu, Lixin Ma, Hong Zhang, Ling Sun, Chuncai Xu, Jingyuan Wu, Yuanyuan He, and Lizhong Du. An End-Tidal Carbon Monoxide Nomogram for Term and Late Preterm Chinese Newborns. *The Journal of Pediatrics* 2022;:-1-6(corresponding author)
70. Xiaofei Luo, Chengcheng Hang*, Ziming Zhang, Kaixing Le, Yuhan Ying, Ying Lv, Lingling Yan, Yajie Huang, Lixia Ye, Xuefeng Xu, Ying Zhong, Lizhong Du*. PVECs-derived Exosomal microRNAs Regulate PSMCs via FoxM1 Signaling in IUGR-induced Pulmonary Hypertension. *J Am Heart Assoc*. 2022 Dec. doi:/suppl/10.116/JAHA.122.027177 (corresponding author)
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