

Curriculum vitae

Name Liqun Yang Ph.D.,M.D.

Sex Male

DOB 21 July, 1972

Address vice-President and Professor

Department of Anesthesiology

Renji Hospital, Shanghai Jiaotong University School
of Medicine

No.1630 Dongfang road

Shanghai 200127, PRC

Tel: +8621-65309635

E-mail: lqyang72721@126.com Academic Title



Academic Title

- 2023-: vice Secretary in General, Chinese Society of Anesthesiology (CSA)
- 2013-: Membership, International Society of Anesthetic Pharmacology (ISAP)
- 2019- vice Chairman, Shanghai Society of Anesthesiology (SSA)
- 2012- 2018 Young Committee Member, Chinese Society of Anesthesiology (CSA)
- 2006-: Membership, American Society of Anesthesiologists (ASA)
- 2017-: Editorial board member, Anesthesiology (Chinese Version)
- 2016-: Editorial board member, Journal of Clinical anesthesiology (CHN)
- 2020-: Editorial board member, Chinese Journal of Anesthesiology
- 2017-: Peer reviewer, Scientific Reports (Nature publish group)

EDUCATION

Doctor of Medicine ((2007.09-2010.06)) in Anesthesia and Intensive Care, the Second Military Medical University, Shanghai, China

Master of Medicine (1998.09-2001.07) in Surgery, the Second Military Medical University, Shanghai, China

MMBS (1990.09-1995.7) in Anesthesiology, the Second Military Medical University, Shanghai, China

CLINICAL EXPERIENCE

Professor and vice President (2015-)

in Department of Anesthesiology, Renji Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, China

Associate Professor and vice President (2014-2015)

in Department of Anesthesiology, Renji Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, China

Assistant Dean and Supervisor of Master students (2010-2014)

in Department of Anesthesia and Intensive Care, Eastern Hepatobiliary Surgery Hospital, the Second Military Medical University, Shanghai, China

Associate Professor, Head of ICU and Research (2009-2014)

in ICU ward, Department of Anesthesia and Intensive Care, Eastern Hepatobiliary Surgery Hospital, the Second Military Medical University, Shanghai, China

Attending Anesthesiologist (2001-2008)

in Department of Anesthesia and Intensive Care, Eastern Hepatobiliary Surgery Hospital, the Second Military Medical University, Shanghai, China

Clinical Associate (2005-2006)

in Department of Anesthesiology, Hong Kong University Hong Kong, China

Resident (1995-2001)

in Department of Anesthesia and Intensive Care, Eastern Hepatobiliary Surgery Hospital, the Second Military Medical University, Shanghai, China

AWARDS IN CLINICAL & RESEARCH WORK

- *Shanghai Outstanding Academic Leaders of Health System (2017)* , award for research of Pulmonary Complications After Airway Management with Laryngeal Masks or Endotracheal Intubation in Geriatric Patients
- *Shanghai Outstanding Doctor's Thesis (2011)*, award for: Research of remifentanyl preconditioning attenuating hepatic IR injury.

- **The 1st Grade Scientific Thesis Research Award of Chinese Young Society of Anesthesiology (2010)**, award for: Remifentanyl preconditioning attenuate hepatic IR injury.

RESEARCH FOUNDATIONS

- **STCSM:20410760500 (2020-2023)**: The mechanism of propofol reduces postoperative chronic pain mediated by medulla GABA_A receptor (RBM 350,000).
- **Shanghai Shenkang Hospital Development Center: SHDC2020CR2055B (2020-2022)**: a randomized controlled trial to evaluate the impact of dexmedetomidine on early allograft dysfunction following liver transplantation (RBM 2,400,000).
- **National Key R&D Program of China: 2018YFC201803 (2018-2022)**: Constructing the prevention and control technology and comprehensive intervention system of risky events in the elderly (RBM 400,000).
- **NSFC: NO.81771185 (2018-2021)**: The activation of GPER-1 receptors in medullary on-cell facilitates postoperative pain chronification via suppressing opioid analgesia (RBM 540,000).
- **Shanghai Municipal Health Commission: 2017BR042 (2017-2020)**: Outstanding Academic Leaders' Program of Health and Family Planning Commission of Shanghai (RBM 450,000).
- **Shanghai Jiao Tong University School of Medicine: 20172012 (2017-2020)**: Investigative Doctor Program of Shanghai Jiao Tong University School of Medicine (RBM 1,000,000)
- **NSFC: NO.81471846 (2014-2018)**: Beta-Arrestin negative regulate TLR4 and opioid pathways for attenuate liver IR injury from National Natural Science Foundation of China (RBM 720,000)
- **NSFC: NO.81272066 (2013-2016)**: TLR4 mediate Opioid preconditioning's anti-inflammatory and hepatic protection. *from* National Natural Science Foundation of China (RBM 700,000).

- **NSFC: NO.30600584 (2006-2009):** A correlation investigation on polymorphisms of CYP3A or MDR1 gene between FK506 metabolism characteristic among chinese liver transplantation patients. *from* National Natural Science Foundation of China(RBM 230,000).
- **Shanghai Rising-Star Extra-Program (No.12QH1402800, 2012-2014):** TLR pathway and Hepatic protect by opioid preconditioning. *from* Shanghai Science and Technology Commission of Shanghai Municipality, (RBM 200,000).
- **Shanghai Rising-Star Program (No.08QA14007, 2008-2010):** New opioid preconditioning attenuate hepatic ischemia reperfusion injury. *from* Shanghai Science and Technology Commission of Shanghai Municipality, (RBM 150,000).
- **Shanghai Outstanding Young Doctor Program (2005-2008):** *from* Shanghai Health Bureau, (RBM 200,000).

PUBLICATIONS

Book

- **Modern Anesthesia Machine** 2015.06 ISBN: 9787510096624
(Chinese)

Clinical guidelines

- **Expert Consensus on Anesthesia Management for Pediatric Liver Transplantation** 2021.04

Original scientific papers

- **First and corresponding author**

1. **Yang LQ**, Zhu L, Shi X, Miao CH, Yuan HB, Liu ZQ, Gu WD, Liu F, Hu XX, Shi DP, Duan HW, Wang CY, Weng H, Huang ZL, Li LZ, He ZZ, Li J, Hu YP, Lin L, Pan ST, Xu SH, Tang D, Sessler DI, Liu J, Irwin MG, Yu WF; POLMA-EP investigators. Postoperative pulmonary complications in

- older patients undergoing elective surgery with a supraglottic airway device or tracheal intubation. *Anaesthesia*. 2023 Aug;78(8):953-962. doi: 10.1111/anae.16030. Epub 2023 Jun 4. PMID: 37270923.
2. Yin SQ, Gao P, Yu LD, Zhu L, Yu WF, Chen Y, **Yang LQ**. Engineering 2D Silicene-Based Mesoporous Nanomedicine for In Vivo Near-Infrared-Triggered Analgesia. *Adv Sci (Weinh)*. 2022 Sep; 9(25): e2202735.
 3. Zhou YY, Lin XQ, Yin SQ, Zhu L, Yang YT, Li YX, Wang BS, Jiao YF, Yu WF, Gao P, Yang LQ. Emerging Trends and Hot Spots in Hepatic Glycolipid Metabolism Research From 2002 to 2021: A Bibliometric Analysis. *Front Nutr*. 2022 Jul 12; 9: 933211.
 4. Li YX, Zhou YY, Wang LY, Lin XQ, Mao MH, Yin SQ, Zhu L, Jiao YF, Yu WF, Gao P and **Yang LQ**. Emerging trends and hotspots in the links between the gut microbiota and MAFLD from 2002 to 2021: A bibliometric analysis. *Front Endocrinol*. 2022 Oct 13: 990953.
 5. Xu J, Gao P, Wu Y, Yin S, Zhu L, Xu S, Tang D, Cheung C, Jiao Y, Yu W, Li Y, **Yang L**. G protein-coupled estrogen receptor in the rostral ventromedial medulla contributes to the chronification of postoperative pain. *CNS Neurosci Ther*. 2021 Nov;27(11):1313-1326..
 6. Zhu L, Zhou Y, Zhang Z, Yin S, Lv D, Wu Y, Wang B, Mao M, Jiao Y, Yu W, Gao P, **Yang L**. Remifentanyl preconditioning promotes liver regeneration via upregulation of β -arrestin 2/ERK/cyclin D1 pathway. *Biochem Biophys Res Commun*. 2021 Jun 11;557:69-76.
 7. Ni, C, Masters J, Zhu L, Yu W, Jiao Y, Yang Y, Cui C, Yin S, **Yang L**, Qi B, Ma D. Study design of the DAS-OLT trial: a randomized controlled trial to evaluate the impact of dexmedetomidine on early allograft dysfunction following liver transplantation. *TRIALS* 2020 JUN 26;21(1): 582.
 8. Zhu L, Shi X, Yin S, Yin J, Zhu Z, Gao X, Jiao Y, Yu W, **Yang L**. Correction to: Effectiveness and pulmonary complications of perioperative laryngeal mask airway used in elderly patients (POLMA-EP trial): study protocol for a

- randomized controlled trial (vol 20, 260, 2019). *TRIALS* 2020 MAR 30;21(1): 297.
9. Li Y, Huang D, Su D, Chen J, **Yang L**. Postoperative cognitive dysfunction after robot-assisted radical cystectomy (RARC) with cerebral oxygen monitoring an observational prospective cohort pilot study. *BMC ANESTHESIOLOGY* 2019 NOV 6;19(1): 202.
 10. Zhu L, Shi X, Yin S, Yin J, Zhu Z, Gao X, Jiao Y, Yu W, **Yang L**. Effectiveness and pulmonary complications of perioperative laryngeal mask airway used in elderly patients (POLMA-EP trial): study protocol for a randomized controlled trial. *TRIALS* 2019 MAY 8;20: 260.
 11. Gao X, Zhu P, Yu L, **Yang L**, Chen Y. Ultrasound/Acidity-Triggered and Nanoparticle-Enabled Analgesia. *ADVANCED HEALTHCARE MATERIALS* 2019 MAY;8(9): 1801350.
 12. Yang Y, Chen C, Cui C, Jiao Y, Li P, Zhu L, Yu W, Xia Q, Wen D, **Yang L**. Indispensable role of beta-arrestin2 in the protection of remifentanil preconditioning against hepatic ischemic reperfusion injury. *SCIENTIFIC REPORTS* 2019 FEB 14;9: 2087.
 13. Cui C, Yu F, Yin S, Yang Y, Jiao Y, Cheung C, Wang X, Qi B, Liu Y, Li P, Yu W, Xiao J, **Yang L**. Remifentanil Preconditioning Attenuates Hepatic Ischemia-Reperfusion Injury in Rats via Neuronal Activation in Dorsal Vagal Complex. *MEDIATORS OF INFLAMMATION* 2018;2018: 3260256.
 14. Liu Y, **Yang L**, Yin J, Su D, Pan Z, Li P, Wang X. MicroRNA-15b deteriorates hypoxia/reoxygenation-induced cardiomyocyte apoptosis by downregulating Bcl-2 and MAPK3. *JOURNAL OF INVESTIGATIVE MEDICINE* 2018 JAN;66(1): 39-45.
 15. Xing S, Wen D, Zhu L, Wang J, Li Z, **Yang L**, Gao Y: Magnet guidance reduces misplacement of subclavian vein catheter in internal jugular vein. *Intensive Care Med* 2017,1-2
 16. Zhao Y, Huang L, Xu H, Wu G, Zhu M, Tian J, Wang H, Wang X, Yu W, **Yang L**, Su D: Neuroinflammation Induced by Surgery Does Not Impair the

- Reference Memory of Young Adult Mice. *Mediators Inflamm* 2016; 2016: 3271579
17. Sun K, Xu L, Jing Y, Han Z, Chen X, Cai C, Zhao P, Zhao X, **Yang L**, Wei L: Autophagy-deficient Kupffer cells promote tumorigenesis by enhancing mtROS-NF-kappaB-IL1alpha/beta-dependent inflammation and fibrosis during the preneoplastic stage of hepatocarcinogenesis. *Cancer Lett* 2016; 388: 198-207
 18. Liu Y, Li P, Cheng X, Yu W, **Yang L**, Zhu H: Plasma MicroRNA-21 Predicts Postoperative Pulmonary Complications in Patients Undergoing Pneumoresection. *Mediators Inflamm* 2016; 2016: 3591934
 19. Li S, Yu F, Zhu H, Yang Y, **Yang L**, Lian J: The median effective concentration (EC50) of propofol with different doses of fentanyl during colonoscopy in elderly patients. *BMC Anesthesiol* 2016; 16: 24
 20. Bian X, Zhou R, Yang Y, Li P, Hang Y, Hu Y, **Yang L**, Wen D: Divergent Effect of Dezocine, Morphine and Sufentanil on Intestinal Motor Function in Rats. *Int J Med Sci* 2015; 12: 848-52
 21. Tong Y, Tang Z, Yang T, Yang Y, **Yang L**, Shen W, Chen W: Ulinastatin preconditioning attenuates inflammatory reaction of hepatic ischemia reperfusion injury in rats via high mobility group box 1(HMGB1) inhibition. *Int J Med Sci* 2014; 11: 337-43
 22. Liu Y, **Yang L**, Tao K, Vizcaychipi MP, Lloyd DM, Sun X, Irwin MG, Ma D, Yu W: Protective effects of hydrogen enriched saline on liver ischemia reperfusion injury by reducing oxidative stress and HMGB1 release. *BMC Gastroenterol* 2014; 14: 12
 23. **Yang LQ**, Tao KM, Liu YT, Cheung CW, Irwin MG, Wong GT, Lv H, Song JG, Wu FX, Yu WF: Remifentanil preconditioning reduces hepatic ischemia-reperfusion injury in rats via inducible nitric oxide synthase expression. *Anesthesiology* 2011; 114: 1036-47
 24. Ren HM, **Yang LQ**, Liu ZQ, Chen CY, Cheung CW, Tao KM, Song JG, Chen WR, Yu WF: In vivo and ex vivo effects of propofol on myocardial

- performance in rats with obstructive jaundice. *BMC Gastroenterol* 2011; 11: 144
25. Lv X, **Yang L**, Tao K, Liu Y, Yang T, Chen G, Yu W, Lv H, Wu F: Isoflurane preconditioning at clinically relevant doses induce protective effects of heme oxygenase-1 on hepatic ischemia reperfusion in rats. *BMC Gastroenterol* 2011; 11: 31
26. **Yang LQ**, Tao KM, Cheung CW, et al. The effect of isoflurane or propofol anaesthesia on liver injury after partial hepatectomy in cirrhotic patients. *Anaesthesia* 2010,65:1094-1100
27. **Yang LQ**, Song JC, Irwin MG, Song JG, Sun YM, Yu WF: A clinical prospective comparison of anesthetics sensitivity and hemodynamic effect among patients with or without obstructive jaundice. *Acta Anaesthesiol Scand* 2010; 54: 871-7

Lecture at scientific meetings

1. 2016.09. Peadatric Liver transplation anesthesia, A single center experience sharing, Annual Meeting of Chinese Society of Anesthesiology (CSA)
2. 2015.10. Liver transplantation, Anesthesia and perioperative management, Annual Meeting of Hong Kong society of Anesthesiology (HKSA)
3. 2014.11. Clincial Liver pretection and anesthesia considation, Annual Meeting of Korea Society of Anestheisology (KSA)
4. 2009.10. Obstructive jaundice and anesthesia, our recent work. Invite by annual meeting of Hong Kong society of Anesthesiology.(HKSA)
5. 2010.09. Remifentanil preconditioning attenuate hepatic ischemia reperfusion, In annual meeting of Chinese Young Society of Anesthesiology

Teaching Experience

2014- present *Anesthesia in General* for medical students of School of Medcine,
Shanghai Jiaotong University

2014- present *Clinical Monitor during Anesthesia* for medical students of School of
Medicine, Shanghai Jiaotong University

Clinical Instruction

2014- present Training of residents from the residency programme

2014- present Training of intern students of Department of Anesthesiology, Bengbu
Medical School, Anhui, China

2014- present Training of intern students of Department of Anesthesiology, Xuzhou
Medical School, Jiangsu, China