

KOREA-US Frontiers in Health and Life Sciences

2025. 11. 6^(Thu) - 7^(Fri)
Four Seasons Hotel, Grandballroom(3F)



Curriculum Vitae

Name	First Name	Hyun Koo	Last Name	Kim
Country	Korea			
Affiliation	Korea University Guro Hospital			



Educational Background

- Korea University, College of Medicine, Department of Thoracic and Cardiovascular Surgery, 2004 (Ph. D.)
- Korea University, College of Medicine, Department of Thoracic and Cardiovascular Surgery, 2000 (M.S.)
- Korea University, College of Medicine, 1996 (M.D.)

Professional Career

- Chair, Korea University, College of medicine, Department of Thoracic and Cardiovascular Surgery: 2016-current
- Adjunct Professor, School of Biomedical Engineering, College of Health Science, Korea University: 2016-current
- Professor, Korea University, College of Medicine, Department of Thoracic and Cardiovascular Surgery: 2015-Current
- Associate Professor, Korea University, College of Medicine, Department of Thoracic and Cardiovascular Surgery: 2010-2015
- Assistant Professor, Korea University, College of Medicine, Department of Thoracic and Cardiovascular Surgery: 2007-2010
- Clinical Assistant Professor, Korea University, College of Medicine, Department of Thoracic and Cardiovascular Surgery: 2005-2007

Research Field

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- Molecular image-guided surgery for thoracic oncology
- Minimally invasive video-assisted thoracoscopic surgery and robotic surgery
- Local chemotherapy for thoracic oncology
- Early detection of thoracic cancer with liquid biopsy

Papers, Books, etc. presented or published by your name

1. Pulmonary surfactant-based pirfenidone-loaded nanovesicles for inhalation therapy of idiopathic pulmonary fibrosis. Chang Geun Kim, Mincheol Jang, Chanhee Oh, Ok Hwa Jeon , Byeong Hyeon Choi , Kyungsu Kim, Ji-Ho Park , Hyun Koo Kim . ACS Appl Mater Interfaces. 2025 Aug 6;17(31):44178-44187.
2. Tumor-Embedded Nerve Surgery Using Dual-Channel Intraoperative Imaging Probes. Eun Bi Jun , Kyungsu Kim, Jun Hee Lee, Seung Hun Park, Satoshi Kashiwagi , Kai Bao, Hyun Koo Kim , Hak Soo Choi. ACS Appl Mater Interfaces. 2025 Aug 6;17(31):44178-44187
3. Novel locally nebulized indocyanine green for simultaneous identification of tumor margin and intersegmental plane . Jeon, Ok Hwa , Kim, Kyungsua, Kim, Chang Geuna,Choi, Byeong Hyeona, Lee, Jun Heea, Kim, Beop-Min, Kim, Hyun Koo. Int J Surg. 2024 Aug 1;110(8):4708-4715
4. Precise and safe pulmonary segmentectomy enabled by visualizing cancer margins with dual-channel near-infrared fluorescence. Ok Hwa Jeon, Kai Bao, Kyungsu Kim, Haoran Wang, Shinya Yokomizo, G. Kate Park, Byeong Hyeon Cho, Jiyun Rho, Chungyeul Kim, Hak Soo Choi, Hyun Koo Kim. Int J Surg. 2024 May 1;110(5):2625-2635.
5. Detection of metastatic lymph node and sentinel lymph node mapping using mannose receptor targeting in in vivo mouse footpad tumor models and rabbit uterine cancer models. Jeong, Sohyeon; Jeon, Ok Hwa; Hong, Jin Hwa; Kim, Kyungsu, Kim, Beop-Min; Park, Ji Yong; Kim, Kweon; Cho, Hyun-Woong; Kim, Hyun Koo. Int J Surg. 2024 May 1;110(5):2692-2700
6. Single test-based diagnosis of multiple cancer types using Exosome-SERS-AI for early stage cancers. Hyunku Shin , Byeong Hyeon Choi , On Shim , Jihee Kim , Yong Park , Sukki Cho , Hyun Koo Kim. Nat Commun. 2023 Mar 24;14(1):1644