

# **Curriculum Vitae**

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## **Jinhyo Ahn (안진효)**

### **Education**

- Feb 2012 – Present      **M.S./Ph.D. candidate (Advisor Prof. Pilhan Kim)**  
Graduate School of Nanoscience and Technology  
Korea Advanced Institute of Science and Technology (KAIST), Daejeon,  
Republic of Korea
- Mar 2006 – Feb 2012      **B. S.**  
Department of Nanomedical engineering  
Pusan National University, Busan, Republic of Korea

### **Awards**

2014, Best poster award in International 5th THz-Bio Workshop Spring Annual Meeting

### **Publications**

- Park I, Choe K, Seo H, Hwang Y, Song E, **Ahn J**, Jo Y and Kim P, "Intravital imaging of pulmonary endothelial surface layer in murine sepsis model," *Biomedical Optics Express*, 9(5): 2383, 2018.
- Hwang K, Seo Y, **Ahn J**, Kim P and Jeong K, "Frequency selection rule for high definition and high frame rate Lissajous scanning," *Scientific Reports*, 7: 14075, 2017.
- Hwang Y, Yoon H, Cheo K, **Ahn J**, Jung JH, Park J and Kim P, "In vivo cellular-level real-time pharmacokinetic imaging of free-form and liposomal indocyanin green in liver," *Biomedical Optics Express*, 8(10): 4706, 2017.
- Song E, Seo H, Choe K, Hwang Y, **Ahn J**, Ahn S and Kim, P, "Optical clearing based cellular-level 3D visualization of intact lymph node cortex," *Biomedical Optics Express*, 6(10): 4154, 2015.
- Ahn J**, Choe K, Wang T, Hwang Y, Song E, Kim KH and Kim P, "In vivo longitudinal cellular imaging of small intestine by side-view endomicroscopy," *Biomedical Optics Express*, 6(10): 3963, 2015.
- Song E, Ahn Y, **Ahn J**, Ahn S, Kim C, Choi S, Boutilier RM, Lee Y, Kim P and Lee H, "Optical clearing assisted confocal microscopy of ex vivo transgenic mouse skin," *Optics & Laser Technology*, 73: 69, 2015.
- Wang T, Li Q, Xiao P, **Ahn J**, Kim YE, Park Y, Kim M, Song M, Chung E, Chung WK, Ahn G, Kim S, Kim P, Myung S and Kim KH, "Gradient index lens based combined two-photon microscopy and optical coherence tomography," *Optics Express*, 22(11): 12962, 2014.
- Hwang Y, **Ahn J**, Mun J, Bae S, Jeong YU, Vinokurov NA and Kim P, "In vivo analysis of THz wave irradiation induced acute inflammatory response in skin by laser-scanning confocal microscopy," *Optics Express*, 22(10): 11465, 2014.

## **Presentations**

**Ahn J**, Choe K, Song E, Hwang Y, Seo H, Park I and Kim P, "In-vivo skin visualization by two-photon microscopy and needle-type side-view confocal endomicroscopy," **Annual Biophotonics Conference '2017**, Tissue Biophotonics-57, Incheon, Korea, Oct. 2017.

**Ahn J**, Choe K, Song E and Kim P, "Intravital cellular-level visualization of active agents delivery in deep skin layer by two-photon fluorescence microscopy," **24<sup>th</sup> Conference of the International Federation of Societies of Cosmetic Chemists (IFSCC) '2017**, FP-0328, Seoul, Korea, Oct. 2017.

**Ahn J**, Choe K, Song E, Hwang Y, Seo H, Park I and Kim P, "In vivo skin tissue visualization by two-photon microscopy and needle-type side-view confocal endomicroscopy," **Optical Society of Korea (OSK) Summer Annual Meeting '2017**, MP-VI-5, Busan, Korea, Jul. 2017.

**Ahn J**, Kong E, Choe K, Song E, Hwang Y, Park I and Kim P, "In vivo deep tissue visualization by needle-type side-view confocal endomicroscopy," **Conference on Lasers and Electro-Optics (CLEO) '2017**, ATu1B.3, San Jose, USA, May. 2017.

**Ahn J**, Choe K, Song E, Hwang Y, Seo H, Park I and Kim P, "In vivo skin tissue visualization by two-photon microscopy and needle-type confocal side-view endomicroscopy," **Optical Society of Korea (OSK) Winter Annual Meeting '2017**, FP-VI-7, Gangwon, Korea, Feb. 2017.

**Ahn J**, Choe K, Song E, Hwang Y, Seo H, Park I and Kim P, "In-vivo cellular visualization of skin by two-photon microscopy and needle-type confocal side-view endomicroscopy," **Annual Biophotonics Conference '2016**, Thu-P-60, Daejeon, Korea, Nov. 2016.

**Ahn J**, Choe K, Song E, Hwang Y, Seo H, Park I and Kim P, "In-vivo cellular visualization of skin by two-photon microscopy and needle-type confocal side-view endomicroscopy," **The Korean Society of Medical Biological & Engineering Spring Annual Meeting '2016**, P1-034, Busan, Korea, May. 2016.

**Ahn J**, Choe K, Song E, Hwang Y, Seo H, Park I and Kim P, "In-vivo cellular visualization of skin by two-photon microscopy and confocal needle-type endomicroscopy," **The 10<sup>th</sup> Asia-Pacific Laser Symposium (APLS) '2016**, Thu-P-60, Jeju, Korea, May. 2016.

**Ahn J**, Choe K, Song E, Hwang Y, Seo H, Park I and Kim P, "In-vivo cellular-level visualization of skin by two-photon microscopy and confocal side-view endomicroscopy," **The 26<sup>th</sup> Annual Meeting of the Korean Society for Investigative Dermatology '2016**, HP-II-5, Seoul, Korea, Mar. 2016.

**Ahn J**, Choe K, Hwang Y, Song E, Seo H and Kim P, "Needle-type side-view endomicroscopy for longitudinal in-vivo deep tissue visualization," **Optical Society of Korea (OSK) Winter Annual Meeting '2016**, WP-VI11, Daejeon, Korea, Jan. 2016.

**Ahn J**, Choe K, Hwang Y, Song E, Seo H and Kim P, "In-vivo longitudinal deep visualization of tumorigenesis by needle-type side-view endomicroscopy," **Annual Biophotonics Conference (ABC) '2015**, Cellular Biophotonics-10, Seoul, Korea, Oct. 2015.

**Ahn J**, Choe K, Wang T, Hwang Y, Kim KH and Kim P, "Side-view confocal endomicroscopy for in vivo longitudinal cellular imaging of small intestine," **Conference on Lasers and Electro-Optics Pacific Rim (CLEO-PR) '2015**, 25H3-2, Busan, Korea, Aug. 2015.

**Ahn J**, Choe K, Hwang Y, Wang T, Kim KH and Kim P, "Side-view confocal endomicroscopy for in vivo longitudinal cellular imaging of small intestine," **Optical Society of Korea (OSK) Summer Annual Meeting '2015**, MP-VI7, Gyeongju, Korea, Jul. 2015.

**Ahn J**, Choe K, Hwang Y, Wang T, Kim KH and Kim P, "In-vivo longitudinal cellular imaging of small intestine by side-view confocal endomicroscopy," **Conference on Lasers and Electro-Optics (CLEO) '2015**, AT4J.4, San Jose, USA, May. 2015.

**Ahn J**, Choe K, Wang T, Hwang Y, Kim KH and Kim P, "Side-view type confocal endomicroscopy for in vivo longitudinal cellular imaging of small intestine," **6th International THz-Bio Workshop '2015**, Seoul, Korea, Apr. 2015.

**Ahn J**, Choe K, Wang T, Hwang Y, Kim KH and Kim P, "Side-view confocal endomicroscopy for in vivo longitudinal cellular imaging of small intestine," **SPIE 2015 Nano-Bio Sensing Imaging & Spectroscopy**, T-PT-VIII, Jeju, Korea, Feb. 2015.

**Ahn J**, Choe K, Hwang Y and Kim P, "GRIN lens endomicroscope for in vivo cellular imaging of viscera gastrointestinal organs," **World Molecular Imaging Congress (WMIC) '2014**, Seoul, Korea, Sep. 2014.

**Ahn J**, Choe K, Hwang Y and Kim P, "Long term cellular level visualization of small intestine by GRIN lens endoscope," **Optical Society of Korea (OSK) Summer Annual Meeting '2014**, Jeju, Korea, Aug. 2014.

**Ahn J**, Wang T, Choe K, Hwang Y, Kim KH and Kim P, "GRIN lens endoscope for cellular imaging of internal organs," **International 5th THz-Bio Workshop Spring Annual Meeting '2014**, P-15, Seoul, Korea, Apr. 2014.

**Ahn J**, Wang T, Choe K, Hwang Y, Kim KH and Kim P, "GRIN lens endoscope for cellular imaging of internal organs," **The Korean Society of Medical Biological & Engineering Autumn Annual Meeting '2013**, P-015, Incheon, Korea, Nov. 2013.

**Ahn J**, Wang T, Choe K, Hwang Y, Kim KH and Kim P, "GRIN Lens endoscope for cellular imaging of internal organs," **Optical Society of Korea (OSK) Summer Annual Meeting '2013**, F1E-VI5, Yeosu, Korea, July 2013.