

Curriculum Vitae

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Soyeon Ahn (안소연)

Education

- Feb 2014 – 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 2010 – Feb 2014 **B. S.**
Department of Life Science
Sogang University, Seoul, Republic of Korea

Professional Experience

- Jan 2017 – Feb 2017 **Research Internship Program**
International Research Center for Medical Sciences (IRCMS)
Kumamoto University, Kumamoto, Japan

Achievements & Awards

- 2018, **Young Scientist Program (YSP) Fellowship Winner**, 24th IUBMB Congress & 15th FAOBMB Congress
(Selected as one of 46 international young researchers to attend the program preceding IUBMB congress)
- 2017, **Excellence Poster Award**, KVSMO 2017 & 15th Japan-Korea Joint Symposium of Vascular Biology

Publications

Ahn S, Choe K, Lee S, Kim K, Song E, Seo H, Kim I, Kim P, "Intravital longitudinal wide-area imaging of dynamic bone marrow engraftment and multilineage differentiation through nuclear-cytoplasmic labeling", *PLoS ONE*, 12(11):e0187660, 2017.

Ogura S, Kurata K, Hattori Y, Takase H, Ishiguro-Oonuma T, Hwang Y, **Ahn S**, Park I, Ikeda W, Kusuhara S, Fukushima Y, Nara H, Sakai H, Fujiwara T, Matsushita J, Ema M, Hirashima M, Minami T, Shibuya M, Takakura N, Kim P, Miyata T, Ogura Y, Uemura A, "Sustained inflammation after pericyte depletion induces irreversible blood-retina barrier breakdown", *JCI Insight*, 2(3), e90905, 2017.

Ahn Y*, Park S*, Choi J, Park B, Rhee K, Kang E, **Ahn S**, Lee C, Lee J, Inn K, Cho M, Park S, Park K, Park H, Lee J, Park J, Kwon N, Shim H, Han B, Kim P, Lee J, Jeon Y, Huh J, Jin M, Kim S, "Secreted Tryptophanyl-tRNA Synthetase as a Primary Defense System against Infection", *Nature Microbiology*, 2:16191, 2016. (* co-first authors)

Choe K*, Jang JY*, Park I*, Kim Y, **Ahn S**, Park DY, Hong YK, Alitalo K, Koh GY, Kim P, "Intravital imaging of intestinal lacteals unveils lipid drainage through contractility", **The Journal of Clinical Investigation**, 125(11), 4042-52, 2015. (* co-first authors).

Song E, Seo H, Choe K, Hwang Y, Ahn J, **Ahn S**, Kim P, "Optical clearing based cellular-level 3D visualization of intact lymph node cortex", **Biomedical Optics Express**, 6(10), 4154, 2015.

Song E, Ahn Y, Ahn J, **Ahn S**, Kim C, Choi S, Boutilier R.M, Lee Y, Kim P*, Lee H*, "Optical clearing assisted confocal microscopy of ex vivo transgenic mouse skin," **Optics & Laser Technology**, 73:69-76, 2015. (*co-corresponding author)

Presentations

[International]

Ahn S, Choe K, Koh B, Song E, Seo H, Kim I and Kim P, "In Vivo Longitudinal Imaging of Transplanted Bone Marrow Cell to Visualize Engraftment and Multi-lineage Differentiation", **24th IUBMB Congress & 15th FAOBMB Congress '2018**, PO03-041, Seoul, Korea, Jun. 2018. (Poster)

Ahn S, Choe K, Koh B, Song E, Seo H, Kim I and Kim P, "In vivo longitudinal nuclear-cytoplasmic visualization of dynamic bone marrow engraftment and multi-lineage differentiation", **Young Scientist Program (YSP) of 24th IUBMB Congress & 15th FAOBMB Congress '2018**, #027, Seoul, Korea, Jun. 2018. (Oral & Poster)

Ahn S, Choe K, Lee S, Kim K, Song E, Seo H, Kim I and Kim P, "Longitudinal In Vivo Nuclear-Cytoplasmic Visualization of Transplanted Bone Marrow Cells in Calvarial Bone Marrow for Dynamic Cellular Monitoring", **2017 EMBO Symposia - Seeing is Believing - Imaging the Processes of Life**, #46, Heidelberg, Germany, Oct. 2017. (Flash Talk (24/153) & Poster)

Ahn S, Choe K, Koh B, Song E, Seo H, Kim I and Kim P, "Intravital Visualization of Dynamic Cellular Behaviors of Transplanted Bone Marrow Cells", **KVSMO and 15th Japan-Korea Joint Symposium of Vascular Biology '2017**, P-14, Muju, Korea, Aug. 2017. (Poster)

Ahn S, Song E, Choe K, Hwang Y, and Kim P, "3D cellular-level visualization of intact lymph node based on CLARITY tissue clearing technique", **The 10th Asia-Pacific Laser Symposium '2016**, P-64, Jeju, Korea, May. 2016. (Poster)

[Domestic]

Ahn S, Choe K, Koh B, Song E, Seo H, Kim I and Kim P, "Intravital Longitudinal Subcellular-level Visualization of Dynamic Bone Marrow Cell Engraftment through Nuclear-Cytoplasmic Labeling", **Annual Biophotonics Conference (ABC) '2017**, #16, Incheon, Korea, Oct. 2017. (Poster)

Ahn S, Choe K, Lee S, Kim K, Song E, Seo H, Kim I and Kim P, "In Vivo Nuclear-Cytoplasmic Visualization of Transplanted Bone Marrow Cells in Calvarial Bone Marrow", **Optical Society of Korea (OSK) Summer Meeting '2017**, Busan, Korea, July. 2017. (Oral)

Ahn S, Choe K, Lee S, Kim K, Song E, Seo H, Kim I and Kim P, "In Vivo Nuclear-Cytoplasmic Visualization of Transplanted Bone Marrow Cells in Calvarial Bone Marrow", **Annual Biophotonics Conference (ABC) '2016**, Daejeon, Korea, Nov. 2016. (Poster)

Ahn S, Song E, Choe K, Hwang Y, and Kim P, "3D Cellular-level Reconstruction of Intact Lymph Node based on CLARITY Tissue Clearing Technique", **VSMO-IBS-KAIST Joint Symposium on Vascular Biology '2016**, P-12, Daejeon, Korea, May. 2016. (Poster)

Ahn S, Song E, Choe K, Hwang Y, and Kim P, "3D Cellular-level Visualization of Vascular Networks in Intact Lymph Node based on CLARITY Tissue Clearing Technique", **The 2016 Spring Conference of the Korean Association of Immunologists**, P-121, Seoul, Korea, Apr. 2016. (Poster)

Ahn S, Song E, Choe K, and Kim P, "Cellular-level 3D visualization of intact lymph node based on CLARITY tissue clearing technique", **Annual Biophotonics Conference (ABC) '2015**, #22, Seoul, Korea, Oct. 2015. (Poster)

Ahn S, Song E, and Kim P, "Cellular-level 3D reconstruction of intact lymph node based on CLARITY tissue clearing technique", **Vascular Science and Medicine Organization (VSMO) Annual Symposium '2015**, P10, Busan, Korea, Oct. 2015. (Poster)

Ahn S, Song E, and Kim P, "Visualization of cellular-level 3D reconstruction of intact lymph node based on CLARITY tissue clearing technique", **Optical Society of Korea (OSK) Summer Meeting '2015**, T2B-VI6, Gyeongju, Korea, July. 2015. (Oral)

Ahn S, Choe K, Lee S, Kim I, and Kim P, "Longitudinal intravital imaging of transplanted bone marrow cell engraftment and differentiation," **Optical Society of Korea (OSK) Summer Meeting '2014**, MP-VI10, Jeju, Korea, Aug. 2014. (Poster)