

## Jinwook Choi, Ph.D.

### Personal information

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**Date of Birth:** 1980.11.12

### Education and employment

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05. 2022 – present. Assistant Professor  
Gwangju Institute of Science and Technology (GIST), Gwangju, Korea
04. 2016 – 04.2022 Postdoctoral Research Fellow  
Wellcome-MRC Cambridge Stem cell Institute  
University of Cambridge, Cambridge, UK
09. 2012 – 03. 2016 Postdoctoral Research Fellow  
Seoul National University, Seoul, Korea
03. 2004 – 08. 2012 Ph.D. in Immunology (Supervisor: Dr. Rho-Hyun Seong)  
School of Biological Science, Seoul National University, Seoul, Korea
03. 2000 – 02. 2004 B.S. in Biological Science and Chemistry  
(**Double major with Summa cum laude**)  
School of Biological Science and Department of Chemistry  
Seoul National University, Seoul, Korea

### Scientific publication

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1. **Jeon H. Y\*., Choi J\*.,** Kraaier L., Eisenbarth D., Kim Y. H., Yi K., Kim J. W., Shim H. S., Lee J.-H<sup>†</sup>, and Lim D.-S<sup>†</sup>, **2022**, Activation of YAP/TAZ signalling reprograms airway secretory cell fate via mTORC1-dependent amino acid metabolism, **Embo Journal**. \*co-first authours, <sup>†</sup>co-correspondence.
2. Meng Bo, Abdullahi Adam, **Choi J**, Sato Kei, Gupta K. Ravindra, **2022**, Altered TMPRSS2 usage by SARS-CoV-2 Omicron impacts tropism and fusogenicity, **Nature**.
3. **Choi J\*.,** Jang Y. J\*., Dabrowska C., lich E., Evans V. K., Hall H., Janes S. M., Simons D. B., Koo B. -K., Kim J<sup>†</sup>, and Lee J.-H<sup>†</sup>, **2021**, Release of Notch activity coordinated by IL-1 $\beta$  signalling confers differentiation plasticity of airway progenitors via Fosl2 during alveolar regeneration, **Nature Cell Biology**. \*co-first authours, <sup>†</sup>co-correspondence.  
- *Highlighted in the "News & Views" in Nature Cell Biology, "An inflammatory switch for stem cell plasticity"*
4. **Choi J.**, Park J.-E., Tsagkogeorga G., Yanagita M., Koo B.-K., Han N., and Lee J.-H., **2020**, Inflammatory Signals induce AT2 Cell-Derived Damage-Associated Transient Progenitors that Mediate Alveolar Regeneration, **Cell Stem Cell**.  
- *Highlighted in the "News & Views" in Nature Cell Biology, "Transitional stem cell state in the lung"*
5. Lee J.-H., Tammela T, Hofree M, **Choi J**, Marjanovic N, Han S, Canner D, Paschini M, Bhang D, Jacks T, Regev A and Kim C., **2017**, Anatomically and functionally distinct lung mesenchymal populations marked by Lgr5 and Lgr6, **Cell**
6. **Choi J.,** Kim Y.K., Park K., Nah J., Yoon S.S., Kim D.W., Kim V.N. and Seong R.H., **2016**, MicroRNA-139-5p regulates proliferation of hematopoietic progenitors and is repressed during BCR-ABL-mediated leukemogenesis, **Blood**.
7. **Choi J**, Lich E and Lee JH., **2016**, Organogenesis of adult lung in a dish: differentiation, disease and therapy, **Developmental biology**.

8. Oh S, Oh J, Lee C, Oh S, Jeon S, **Choi J**, Hwang S, Lee Y, Lee H and Seong R.H., **2016**, Expression of Twist2 is controlled by T-cell receptor signaling and determines the survival and death of thymocytes, **Cell death and differ.**
9. **Choi J**, Jeon S., Choi S., Park K. and Seong R.H., **2015**, The SWI/SNF chromatin remodeling complex regulates germinal center formation by repressing Blimp-1 expression, **Proc Natl Acad Sci U S A. (Recommended in F1000Prime)**.
10. Kim S., Park K., **Choi J**, Jang E., Park D.J., Seong R.H. and Youn J., **2014**, Foxp3+ regulatory T cells ensure B lymphopoiesis by inhibiting the granulopoietic activity of effector T cells in mouse bone marrow, **Eur J Immunol.**
11. **Choi J**, Ko M., Jeon S., Jeon Y., Park K., Lee C., Lee H., Seong R.H., **2012**, The SWI/SNF-like BAF complex is essential for early B cell development, **J Immunol.**
12. Jung I., Sohn D.H., **Choi J**, Kim J.M., Jeon S., Seol J.H., Seong R.H., **2011**, SRG3/mBAF155 stabilizes the SWI/SNF-like BAF complex by blocking CHFR mediated ubiquitination and degradation of its major components, **Biochem Biophys Res Commun.**
13. Lee K.Y., Choi Y.I., Kim J., **Choi J**, Sohn D.H., Lee C., Jeon S.H., Seong R.H., **2007**, Down-Regulation of the SWI/SNF Chromatin Remodeling Activity by TCR Signaling Is Required for Proper Thymocyte Maturation, **J Immunol.**
14. Jang J., Choi Y.I., **Choi J**, Lee K.Y., Chung H., Jeon S.H., and Seong R.H., **2006**, Notch1 confers thymocytes a resistance to GC-induced apoptosis through Deltex1 by blocking the recruitment of p300 to the SRG3 promoter. **Cell death and differ.**

## Oral and/or Poster presentation at Meeting or Symposium

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### Oral presentation (Invited or Selected Speaker)

- 2022 Center for Genome Engineering, Institute of Basic Science (IBS), Korea (Invited)
- 2022 KAIST, Department of Biological Science, Daejeon, Korea (Invited)
- 2021 British Society of Immunology Congress, Edinburgh, UK (Selected)
- 2021 Kennedy Institute of Rheumatology, University of Oxford, UK (Invited)
- 2021 Wellcome-MRC Cambridge Stem Cell Institute, University of Cambridge, UK (Invited)
- 2021 KAIST, Department of Biological Science, Daejeon, Korea (Invited)
- 2021 POSTECH, Department of Life Science, Korea (Invited)
- 2021 3<sup>rd</sup> SY-Stem Symposium, IMBA, Vienna, Austria (Invited)
- 2021 Developmental biology workshop: Inflammaging and Regeneration; Pain or Partnership? UK (Selected)
- 2021 Sungkyunkwan University, School of Medicine, Suwon, Korea (Invited)
- 2020 EMBL Barcelona Postdoc Seminar Series, EMBL, Barcelona, Spain (Selected)
- 2020 3<sup>rd</sup> Crick Cancer Research Symposium, The Francis Crick Institute, London, UK (Selected)
- 2020 KIAS, Graduate School of Medical Science and Engineering, Daejeon, Korea (Invited)
- 2018 Cambridge International Stem Cell Symposium, Cambridge, UK (Selected)
- 2017 Invitation seminar for future young scientist, KIST, Seoul, Korea (Invited)
- 2010 15<sup>th</sup> East-Asia Joint Symposium on Biomedical Research, Taipei, Taiwan (Invited)
- 2007 2<sup>nd</sup> RCAI International Summer Program, Yokohama, Japan (Selected)

### Poster presentation

- 2019 Cambridge Stem Cell Institute (CSCI) Annual Retreat, Cambridge, UK
- 2018 Gordon Research Conference (Tissue Niches and Resident Stem Cells in Adult Epithelia), NH, USA
- 2018 Cambridge International Stem Cell Symposium, Cambridge, UK
- 2018 Cambridge Stem Cell Institute (CSCI) Annual Retreat, Cambridge, UK
- 2017 Gordon Research Conference (Lung Development, Injury and Repair), NH, USA
- 2014 International Conference of the Korean Society for Molecular and Cellular Biology, Seoul, Korea
- 2008 Cold-Spring Harbor Meeting (Gene expression and signaling in the immune system), New York, USA
- 2008 International Congress on Cell Biology, Seoul, Korea

2005 International Conference of the Korean Society for Molecular and Cellular Biology, Seoul, Korea

### **Teaching Experiences and Professional activities**

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- 2016 – present **Main Instructor** at the Cambioscience Workshop  
(<https://www.cambioscience.com/courses/>) for the establishment and  
application of Lung Organoids in mouse and human, Cambridge, UK
- 2004 – 2007 **Teaching Assistant** for three semesters of General Biology Laboratory and  
one semester of Advanced Biology Laboratory at Seoul National University, Korea

### **Awards and Fellowship**

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- Post-Doctoral Fellowship. National Research Foundation of Korea (2017. 09- 2018. 08).
- Marie Skłodowska-Curie Actions Seal of Excellence (2017. 06)
- Seoul Science Fellowship (2005.02-2007.02)
- The Brain Korea 21 Advanced Training Program for Biological Sciences, Seoul, South Korea, (2004-2007)
- Annual Symposium of Institute of Molecular Biology and Genetics (2005yr, 2010yr), Seoul, Korea (Best Poster Awards)

### **Special Training and Education**

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- 2007 RCAI (Riken Research Center for Allergy and Immunology) International Summer  
Program and research activities as an intern student under Dr. Tomohiro Kurosaki
- 2006 BD Biosciences Fluorescence activated cell sorting training course