

# Je-In Youn, Ph.D

## Position:

Assistant professor  
Department of Biomedical Sciences,  
Wide River Institute of Immunology,  
Seoul National University College of Medicine

## Education:

- 2006 – 2011 Ph.D., Cancer Biology program, University of South Florida, Florida, USA.
- 2003 – 2005 M.S., Department of Molecular and Life Science, POSTECH, Pohang, Korea.
- 1996 – 2003 B.S., Department of Life Science, POSTECH, Pohang, Korea

## Professional Background:

- 2014.3 – present Assistant professor, Department of Biomedical Sciences, Wide River Institute of Immunology, Seoul National University College of Medicine.
2013. 4. – 2014. 2. Associate Staff Scientist, Wistar Institute, Philadelphia, Pennsylvania, USA
2011. 2. – 2013. 4. Postdoctoral Fellow, Department of Immunology, H. Lee Moffitt Cancer Center and Research Institute, Tampa, Florida, USA
2005. 8. – 2006. 7. Researcher, Department of Molecular and Life Science, POSTECH, Pohang, Korea

## **Publications:**

1. Lee BR, Kwon BE, Hong EH, Shim A, Song JH, Kim HM, Chang SY, Kim YJ, Kweon MN, **Youn JI**, Ko HJ. Interleukin-10 attenuates tumour growth by inhibiting interleukin-6/signal transducer and activator of transcription 3 signalling in myeloid-derived suppressor cells. **Cancer Lett.** 2016 Oct 10;381(1):156-64.
2. Condamine T, Dominguez GA, **Youn JI**, Kossenkov AV, Mony S, Alicea-Torres K, Tcyganov E, Hashimoto A, Nefedova Y, Lin C, Partlova S, Garfall A, Vogl DT, Xu X, Knight SC, Malietzis G, Lee GH, Eruslanov E, Albelda SM, Wang X, Mehta JL, Bewtra M, Rustgi A, Hockstein N, Witt R, Masters G, Nam B, Smirnov D, Sepulveda MA, Gabilovich DI. Lectin-type oxidized LDL receptor-1 distinguishes population of human polymorphonuclear myeloid-derived suppressor cells in cancer patients. **Sci Immunol.** 2016 Aug;1(2). pii: aaf8943.
3. Yang M, **Youn JI**, Kim SJ, Park JY. Epigenetic modulation of Chlorella (*Chlorella vulgaris*) on exposure to polycyclic aromatic hydrocarbons. **Environ Toxicol Pharmacol.** 2015 Nov;40(3):758-63
4. Condamine T, Ramachandran I, **Youn JI**, Gabilovich DI. Regulation of tumor metastasis by myeloid-derived suppressor cells. **Annu Rev Med.** 2015 Jan 14;66:97-110.
5. Sahakian E, Powers JJ, Chen J, Deng SL, Cheng F, Distler A, Woods DM, Rock-Klotz J, A L AS, **Youn JI**, Woan KV, Villagra A, Gabilovich D, Sotomayor EM, Pinilla-Ibarz J. Histone deacetylase 11: A novel epigenetic regulator of myeloid derived suppressor cell expansion and function. **Mol Immunol.** 2015 Feb;63(2):579-85..
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8. Chen X, Eksioğlu EA, Zhou J, Zhang L, Djeu J, Fortenbery N, Epling-Burnette P, Bijnen SV, Dolstra H, Cannon J, **Youn JI**, Donatelli SS, Qin D, Witte TD, Tao J, Wang H, Cheng P, Gabilovich DI, List A, Wei S. Microenvironment Induced Myelodysplasia mediated by Myeloid-Derived Suppressor Cells. **J. Clin Invest.** 2013 Nov 1;123(11):4595-611.

9. Nagaraj S, **Youn JI**, Gabrilovich DI. Reciprocal relationship between myeloid-derived suppressor cells and T cells. **J. Immunol.** 2013 Jul;191(1):17-23.
10. **Youn JI**, Gabrilovich DI. New roles of Rb1 in expansion of MDSCs in cancer. **Cell Cycle.** 2013 Apr 11;12(9).
11. **Youn JI**, Kumar V, Collazo M, Nefedova Y, Condamine T, Cheng C, Villagra A, Antonia S, McCaffrey JC, Sarnaik A, Sotomayor E, Gabrilovich DI. Epigenetic silencing of retinoblastoma gene regulates pathologic differentiation of myeloid cells in cancer. **Nature Immunology.** 2013 Mar;14(3):211-20. This paper was reviewed in a "News and Views" article in the same issue of Nature Immunology (p197-9) and was also featured in Cancer Discovery (2013 Mar p248).
12. Nagaraj S, Nelson A, **Youn JI**, Cheng P, Quiceno D, Gabrilovich DI. Antigen-specific CD4(+) T cells regulate function of myeloid-derived suppressor cells in cancer via retrograde MHC class II signaling. **Cancer Res.** 2012 Feb 15;72(4):928-38.
13. **Youn JI**, Collazo M, Shalova IN, Biswas SK, Gabrilovich DI. Characterization of the nature of granulocytic myeloid-derived suppressor cells in tumor-bearing mice. **J. Leukoc Biol.** 2012 Jan;91(1):167-81.
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15. Cao M, Xu Y, **Youn JI**, Cabrera R, Zhang X, Gabrilovich D, Nelson DR, Liu C. Kinase inhibitor Sorafenib modulates immunosuppressive cell populations in a murine liver cancer model. **Lab Invest.** 2011 Apr;91(4):598-608.
16. **Youn JI**, Gabrilovich DI. The biology of myeloid-derived suppressor cells: the blessing and the curse of morphological and functional heterogeneity. **Eur. J. Immunol.** 2010 Nov;40(11):2969-75.
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20. Nagaraj S, Collazo M, Corzo CA, **Youn JI**, Ortiz M, Quiceno D, Gabrilovich DI. Regulatory myeloid suppressor cells in health and disease. **Cancer Res.** 2009 Oct 1;69(19):7503-6. Meeting report.
  21. Seo SH, Jin HT, Park SH, **Youn JI**, Sung YC. Optimal induction of HPV DNA vaccine-induced CD8+ T cell responses and therapeutic antitumor effect by antigen engineering and electroporation. **Vaccine.** 2009 Sep 25;27(42):5906-12.
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  23. **Youn JI\***, Park SH\*, Jin HT, Lee CG, Seo SH, Song MY, Lee CW, Sung YC. Enhanced delivery efficiency of recombinant adenovirus into tumor and mesenchymal stem cells by a novel PTD. **Cancer Gene Ther.** 2008 Nov;15(11):703-12. \*Contributed equally to this work.
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  26. Kim DJ, **Youn JI**, Seo SH, Jin HT, Sung YC. Differential regulation of antigen-specific CD8+ T cell responses by IL-12p40 in a dose-dependent manner. **J. Immunol.** 2008 Jun;180(11):7167-74.
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  29. Jin HT, **Youn JI**, Kim HJ, Lee JB, Ha SJ, Koh JS, Sung YC. 2005. Enhancement of interleukin-12 gene-based tumor immunotherapy by the reduced secretion of p40 subunit and the combination with farnesyltransferase inhibitor. **Human Gene Ther.** 2005 Mar;16(3):328-38.