

CURRICULUM VITAE

NAME Jaeseok Yang, M.D., Ph.D.

NATIONALITY South Korea

CURRENT POSITION Professor,
Division of Nephrology, Department of Internal Medicine,
Yonsei University College of Medicine, Severance Hospital, Seoul, Republic of Korea
Department of Medicine, Yonsei University Graduate School, Seoul, Republic of Korea
Transplantation Research Institute, Yonsei University, Seoul, Republic of Korea

EDUCATION

M.D.: Seoul National University Medical College, 1991 - 1995
M.S. (Internal Medicine): Seoul National University Medical College, 1997 - 1999
Ph.D. (Immunology): Seoul National University Medical College, 2003 – 2006
Postdoctoral fellow (Transplantation immunology): University of Pennsylvania, 2004 – 2006
Visiting scholar, Tokyo Women's Medical University, 2010

CAREER

Resident: Department of Internal Medicine, Seoul National University Hospital, 1996 - 2000
Public health doctor : Korean FDA, 2000 - 2002
Fellowship : Division of Nephrology, SNUH, 2003 – 2004
Assistant Professor: Gachon University of Medicine and Science, 2007-2009
Professor : Transplantation center, Seoul National University Hospital, 2009- 2021.8
Professor : Division of Nephrology, Department of Internal Medicine, Yonsei University, 2021.8-

AWARD

Award of Dean, Seoul National University College of Medicine (1995)
Young Investigator Award, the American Society of Transplantation (2006)
New Key Opinion Leader Award, The Transplantation Society (2008)
Young Investigator Award, Korean Society of Nephrology (2008)
Academic Award, the Korean Society for Transplantation (2014)

MAIN RESEARCH INTERESTS

- Roles of immunosuppressive cells in transplantation and their application to clinic
 - Development of chimeric antigen receptor (CAR) regulatory T cells for suppressing allograft rejection
 - Immune regulation of warm and cold ischemia-reperfusion injury
- Mechanisms and control of anti-carbohydrate antibody-mediated rejection in transplantation
 - Control of anti-blood group antibody-mediated rejection in ABO-incompatible Transplantation
 - Control of xenograft rejection in xenotransplantation

PUBLICATION

- Lee SK, Han J, Piao H, Shin N, Jang JY, Yan J-J, Kim H, Chung J, Yang J. Anti-C4d chimeric antigen receptor regulatory T cells suppressed allograft rejection in ABO-incompatible heart transplantation. *Gene Dis* 2022;9(1):1-4
- Kim TH, Yang JJ, Jang JY, Lee GM, Lee SK, Kim BS, Chung JJ, Kim SH, Jung Y, Yang J. Tissue-Engineered Vascular Microphysiological Platform to Study Immune Modulation of Xenograft Rejection. *Science Adv* 2021;7(22):eabg2237.
- Koo TY, Lee JH, Min SI, Lee Y, Kim MS, Ha J, Kim SI, Ahn C, Kim YS, Kim J, Huh KH, Yang J. Presence of a survival benefit of HLA-incompatible living donor kidney transplantation compared to waiting or HLA-compatible deceased donor kidney transplantation with a long waiting time. *Kidney Int* 2021;100(1):205-214.
- Hong SK, Han DK, Lee SK, Kim J, Hwang ES, Kim H, Lee JI, Hong K, Han ES, Cho JH, Lee JM, Choi Y, Lee KW, Yi NJ, Yang J, Suh S. Short-Term Therapy with Anti-ICAM-1 Monoclonal Antibody Induced Long-Term Liver Allograft Survival in Non-Human Primates. *Am J Transplant* 2021;21(9):2978-2991.
- Hwang JH, Piao H, Jang JY, Lee SK, Han D, Lee GM, Go C, Kim Y, Oh KI, Kang JS, Yan JJ, Yang J. Suppressive effects of vitamin C-treated induced-regulatory T cells on heart allograft rejection under vitamin C-deficient or –sufficient conditions. *PLoS One* 2021;16(2):e0246967.
- Yan J-J, Ryu J-H, Piao H, Hwang JH, Han D, Lee S-K, Jang JY, Lee J, Koo TY, Yang J. Granulocyte-colony Stimulating Factor Attenuates Renal Ischemia-reperfusion Injury by Inducing Myeloid-derived Suppressor Cells. *J Am Soc Nephrol* 2020;31(4):731-746.
- Jeon HJ, Lee JG, Kim K, Jang JY, Han SW, Choi J, Ryu JH, Koo TY, Jeong JC, Lee JW, Ishida H, Park JB, Lee SH, Ahn C, Yang J. Peripheral blood transcriptome analysis and development of classification model for diagnosing antibody-mediated rejection vs accommodation in ABO-incompatible kidney transplant. *Am J Transplant* 2020;20(1):112-124.
- Fang T, Koo TY, Lee JG, Jang JY, Xu Y, Hwang JH, Park S, Yan JJ, Ryu JH, Ryu YM, Kim

- SY, Suh KS, Yang J. Anti-CD45RB Antibody Therapy Attenuates Renal Ischemia-Reperfusion Injury by Inducing Regulatory B Cells. *J Am Soc Nephrol* 2019;30:1870.
- Park S, Lee JG, Jang JY, Ryu JH, Kim DJ, Chang SJ, Kim H, Chung J, West L, Yang J. Induction of Accommodation by Anti-complement Component 5 Antibody-based Immunosuppression in ABO-incompatible Heart Transplantation. *Transplantation* 2019;103(9):e248-e255.
 - Yan J-J, Lee J-G, Jang JY, Koo TY, Ahn C, Yang J. IL-2/anti-IL-2 antibody complexes ameliorated lupus nephritis by expanding CD4+CD25+Foxp3+ regulatory T cells. *Kidney Int* 2017;91(3):603-615.
 - Koo TY, Lee J-G, Yang J-J, Jang JY, Ju KD, Han M, Oh KW, Ahn C, Yang J. The P2X7 receptor antagonist, oxidized adenosine triphosphate, ameliorates renal ischemia-reperfusion injury by expansion of regulatory T cells. *Kidney Int* 2017;92:415-431.
 - Lee HS, Lee J-G, Yeom HJ, Chung YS, Kang B, Hurh S, Cho B, Park H, Hwang JI, Park JB, Ahn C, Kim SJ, Yang J. The Introduction of Human heme oxygenase-1 and soluble tumor necrosis factor- α receptor type I with human IgG1 Fc in Porcine Islets Prolongs Islet Xenograft Survival in Humanized Mice. *Am J Transplant* 2016;16:44-57
 - Kim M-G, Koo TY, Yang JJ, Lee EW, Han KH, Jeong JC, Ro H, Kim BS, Jo SK, Oh KH, Surh CD, Ahn C, Yang J. IL-2/anti-IL-2 complex attenuates renal ischemia-reperfusion injury through expansion of regulatory T cells. *J Am Soc Nephrol* 2013;24(10):1529-1536.
 - Jung KC, Park CG, Jeon YK, Park HJ, Ban YL, Min HS, Kim EJ, Kim JH, Kang BH, Park SP, Bae Y, Yoon IH, Kim YH, Lee JI, Kim JS, Shin JS, Yang J, Kim SJ, Rostlund E, Muller WA, Park SH. In situ induction of dendritic cell-based T cell tolerance in humanized mice and nonhuman primates. *J Exp Med* 2011;208(12): 2477-2488
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