Takuya Ueno, M.D., Ph.D., FAHA

My research addresses the importance of donor dendritic cells trafficking through CX3CRI pathway in graft rejection and tolerance. To achieve durable and reproducible tolerance and prevent the development of CAV, we have developed innovative monitoring tools (published in *J Clin Invest 2011, J Am Coll Cardiol 2012, Circ Res 2013, Circ Cardiovasc Imaging* 2013) to understand the CX3CRI pathway from the viewpoint of cell-cell crosstalk between T cells and antigen presenting cells.

Publications

Nanoparticle PET-CT Detects Rejection and Immunomodulation in Cardiac Allografts, Ueno T, et al. ***Circ Cardiovasc Imaging***, 2013

Endoscopic Time-Lapse Imaging of Immune Cells in Infarcted Mouse Hearts, Jung K, et al. ***Circ Res***, 2013

Intact B7-H3 signaling promotes allograft prolongation through preferential suppression of Th1 effector responses, Ueno T, et al. ***Eur J Immunol***, 2012

PET/MRI of Inflammation in Myocardial Infarction, Lee WW, et al. ***J Am Coll Cardiol***. 2012

Myeloperoxidase-rich Ly-6C$^+$ myeloid cells infiltrate allografts and contribute to an imaging signature of organ rejection in mice, Swirkski FK, et al. ***J Clin Invest***, 2011

Divergent Role of Donor Dendritic Cells in Rejection versus Tolerance of Allografts, Ueno T, et al. ***J Am Soc Nephrol***, 2009

The emerging role of T cell Ig mucin 1 in alloimmune responses in an experimental mouse transplant model, Ueno T, et al. ***J Clin Invest***. 2008

Appointments

Instructor, Harvard Medical School Associate Professor, Tokyo Medical University

Education

M.D. (1995, Kitasato University School of Medicine, JAPAN)

Ph.D. (2005, Kitasato University Graduate School of Medical Science, JAPAN)

Awards & Honors

Fellow of the American Heart Association (2012-)

AHA National Scientist Development Grant (2011-2015)

NKF Young Investigator Grant (2010-2011)

Editor (*Artificial Organs*, *Frontiers in Immunology*: *Frontiers in Alloimmunity and Transplantation*)

Reviewer (Circulation Research, Artificial Organs, Journal of Critical Care, Journal of Surgical Research, Nephrol Dial Transplant, Therapeutic Apheresis and Dialysis)

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