

- a bioartificial renal tubule assist device : In vitro transport and metabolic characteristics, *Kidney. Int.*, **55**, 6, pp.2502-2514 (1999)
- 55) Humes, H. D., Buffington, D. A., MacKay, S. M., Funke, A. J. and Weitzel, W. F. : Replacement of renal function in uremic animals with a tissue-engineered kidney, *Nat. Biotechnol.*, **17**, 5, pp.451-455 (1999)
- 56) Humes, H. D., Weitzel, W. F. and Fissell, W. H. : Renal cell therapy in the treatment of patients with acute and chronic renal failure, *Blood. Purif.*, **22**, 1, pp.60-72 (2004)
- 57) Sandrin, M. S., Vaughan, H. A., Dabkowski, P. L. and McKenzie, L. F. : Anti-pig IgM antibodies in human serum react predominantly with Gal(alpha 1-3)Gal epitopes, *Proc. Natl. Acad. Sci. USA.*, **90**, 23, pp.11391-11395 (1993)
- 58) Phelps, C. J., Koike, C., Vaught, T. D., Boone, J., Wells, K. D., Chen, S. H., Ball, S., Specht, S. M., Polejaeva, I. A., Monahan, J. A., Jobst, P. M., Sharma, S. B., Lamborn, A. E., Garst, A. S., Moore, M., Demetris, A. J., Rudert, W. A., Bottino, R., Bertera, S., Trucco, M., Starzl, T. E., Dai, Y. and Ayares, D. L. : Production of alpha 1,3-galactosyltransferase-deficient pigs, *Science*, **299**, 5605, pp.411-414 (2003)
- 59) Kolber-Simonds, D., Lai, L., Watt, S. R., Denaro, M., Arn, S., Augenstein, M. L., Betthausen, J., Carter, D. B., Greenstein, J. L., Hao, Y., Im, G. S., Liu, Z., Mell, G. D., Murphy, C. N., Park, K. W., Rieke, A., Ryan, D. J., Sachs, D. H., Forsberg, E. J., Prather, R. S. and Hawley, R. J. : Production of alpha-1,3-galactosyltransferase null pigs by means of nuclear transfer with fibroblasts bearing loss of heterozygosity mutations, *Proc. Natl. Acad. Sci. USA.*, **101**, 19, pp.7335-7340 (2004)
- 60) Yamada, K., Yazawa, K., Shimizu, A., Iwanaga, T., Hisashi, Y., Nuhn, M., O'Malley, P., Nobori, S., Vagefi, P. A., Patience, C., Fishman, J., Cooper, D. K. C., Hawley, R. J., Greenstein, J., Schuurman, H-J., Awwad, M., Sykes, M. and Sachs, D. H. : Marked prolongation of porcine renal xenograft survival in baboons through the use of alpha 1,3-galactosyltransferase gene-knockout donors and the cotransplantation of vascularized thymic tissue, *Nat. Med.*, **11**, 1, pp.32-34 (2005)