

CARPuD publication list

Bronchoalveolar sublineage specification of pluripotent stem cells: effect of dexamethasone plus cAMP-elevating agents and keratinocyte growth factor

Tissue Engineering Part A. 2014 Oct 15. [Epub ahead of print]

Katsirntaki, K., Mauritz, C., Olmer, R., Schmeckeber, S., Skodda, M., Puppe, V., Eggenschwiler, R., Duerr, J., Schubert, S. C., Schmiedl, A., Ochs, M., Cantz, T., Salwig, I., Szibor, M., Braun, T., Rathert, C., Martens, A., Mall, M. A., and Martin, U.

PMID: 25316003

CFTR: cystic fibrosis and beyond

Eur Respir J. 2014 Oct;44(4):1042-54. doi: 10.1183/09031936.00228013. Epub 2014 Jun 12.

Mall MA, Hartl D. PMID: 24925916

Pulmonary transplantation of macrophage progenitors as effective and long-lasting therapy for hereditary pulmonary alveolar proteinosis

Sci Transl Med. 2014 Aug 20;6(250):250ra113. doi: 10.1126/scitranslmed.3009750.

Happle C, Lachmann N, Škuljec J, Wetzke M, Ackermann M, Brenning S, Mucci A, Jirmo AC, Groos S, Mirenska A, Hennig C, Rodt T, Bankstahl JP, Schwerk N, Moritz T, Hansen G. PMID: 25143363

MicroRNA-199a-5p inhibition enhances the liver repopulation ability of human embryonic stem cell-derived hepatic cells

J Hepatol. 2014 Aug 15. pii: S0168-8278(14)00556-X. doi: 10.1016/j.jhep.2014.08.016. [Epub ahead of print]

Möbus S, Yang D, Yuan Q, Lüdtko TH, Balakrishnan A, Sgodda M, Rani B, Kispert A, Araúzo-Bravo MJ, Vogel A, Manns MP, Ott M, Cantz T, Sharma AD. PMID: 25135862

Gene correction of human induced pluripotent stem cells repairs the cellular phenotype in pulmonary alveolar proteinosis

Am J Respir Crit Care Med 189, no. 2:167. PMID: 24279725

Lachmann, N.*, Happle, C.*, Ackermann, M., Luttge, D., Wetzke, M., Merkert, S., Hetzel, M., Kensah, G., Jara-Avaca, M., Mucci, A., Skuljec, J., Dittrich, A.M., Pfaff, N., Brenning, S., Schambach, A., Steinemann, D., Gohring, G., Cantz, T., Martin, U., Schwerk, N., Hansen, G.#, and Moritz, T#. 2014* #Authors contributed equally.

Efficient designer nuclease-based homologous recombination enables direct PCR screening for footprint less targeted human pluripotent stem cell clones

Stem Cell Reports 2, no. 1:107

Merkert, S., Wunderlich, S., Bednarski, C., Beier, J., Haase, A., Dreyer, A.-K., Schwanke, K., Meyer, J., Göhring, G., Cathomen, T., and Martin, U. 2014.

PMID: 24678453

Sustained knockdown of a disease-causing gene in patient-specific induced pluripotent stem cells using lentiviral vector-based gene therapy.

Stem Cells Transl Med. 2013 Sep;2(9):641-54.

Eggenschwiler R, Loya K, Wu G, Sharma AD, Sgodda M, Zychlinski D, Herr C, Steinemann D, Teckman J, Bals R, Ott M, Schambach A, Schöler HR, Cantz T.

Keratinocyte growth factor and dexamethasone plus elevated cAMP levels synergistically support pluripotent stem cell differentiation into alveolar epithelial type II cells.

Tissue Eng Part A. 2013 Apr;19(7-8):938-51.

Schmeckeber, S.*, Mauritz, C.*, Katsirntaki, K., Sgodda, M., Puppe, V., Duerr, J., Schubert, S., Schmiedl, A., Lin, Q., Palecek, J., Draeger, G., Ochs, M., Zenke, M., Cantz, T., Mall, M., and Martin, U. 2012. Tissue engineering. Part A. *Authors contributed equally.

Improved Hepatic Differentiation Strategies for Human Induced Pluripotent Stem Cells.

Sgodda, M., Möbus, S., Hoepfner, J., Sharma, A.D., Schambach, A., Greber, B., Ott, M., and Cantz, T. (2012). *Curr Mol Med*, in press.

Improved generation of patient-specific induced pluripotent stem cells using a chemically-defined and Matrigel-based approach.

Gross, B., Sgodda, M., Rasche, M., Schambach, A., Göhring, G., Schlegelberger, B., Greber, B., Linden, T., Reinhardt, D., Cantz, T., et al. (2012). *Curr Mol Med*, in press.

Engineered MSCs from Patient-Specific iPS Cells.

Adv Biochem Eng Biotechnol. 2013;130:1-17

Eberle, I., Moslem, M., Henschler, R., and Cantz, T. 2013.

miRNA screening reveals a new miRNA family stimulating iPS cell generation via regulation of Meox2.

Pfaff, N., Fiedler, J., Holzmann, A., Schambach, A., Moritz, T., Cantz, T., and Thum, T. 2011. *EMBO reports* 12:1153.

Hepatic differentiation of murine disease-specific induced pluripotent stem cells allows disease modelling in vitro.

Eggenchwiler, R., Loya, K., Sgodda, M., Andre, F., and Cantz, T. 2011. *Stem Cells Int* 2011:924782.

Generation of healthy mice from gene-corrected disease-specific induced pluripotent stem cells.

Wu, G., Liu, N., Rittelmeyer, I., Sharma, A.D., Sgodda, M., Zaehres, H., Bleidissel, M., Greber, B., Gentile, L., Han, D.W., Rudolph, C., Steinemann, D., Schambach, A., Ott, M., Scholer, H.R., and Cantz, T. 2011. *PLoS Biol* 9, no. 7:e1001099.

Optimal reprogramming factor stoichiometry increases colony numbers and affects molecular characteristics of murine induced pluripotent stem cells.

Tiemann, U., Sgodda, M., Warlich, E., Ballmaier, M., Scholer, H.R., Schambach, A., and Cantz, T. 2011. *Cytometry A* 79, no. 6:426.

Use of a new-generation reverse tetracycline transactivator system for quantitative control of conditional gene expression in the murine lung.

Duerr, J., Gruner, M., Schubert, S.C., Haberkorn, U., Bujard, H., and Mall, M.A. 2011. *Am J Respir Cell Mol Biol* 44, no. 2:244.

Generation and genetic modification of induced pluripotent stem cells.

Schambach, A., Cantz, T., Baum, C., and Cathomen, T. 2010. *Expert Opin Biol Ther* 10, no. 7:1089.

Embryonic stem cells: Differentiation into respiratory cell derivatives. In *Organogenesis and Cancer*.

Mauritz, C., and Martin, U. 2010. S.R. Singh, P.K. Mishra and S.X. Hou, editors. Transworld Research Network, Kerala, India, pp. 17-38.

Induced pluripotent stem cells: characteristics and perspectives.

Cantz, T., and Martin, U. 2010. *Adv Biochem Eng Biotechnol* 123:107.