

Stanford



Charles Chang

Postdoctoral Research Fellow, Developmental Biology

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Baylor University (2018)
- Bachelor of Science, Baylor University (2013)

Publications

PUBLICATIONS

- **In vivo studies of glucagon secretion by human islets transplanted in mice** *NATURE METABOLISM*
Tellez, K., Hang, Y., Gu, X., Chang, C. A., Stein, R. W., Kim, S. K.
2020; 2 (6): 547-+
- **Molecular and genetic regulation of pig pancreatic islet cell development.** *Development (Cambridge, England)*
Kim, S., Whitener, R. L., Peiris, H., Gu, X., Chang, C. A., Lam, J. Y., Camunas-Soler, J., Park, I., Bevacqua, R. J., Tellez, K., Quake, S. R., Lakey, J. R., Bottino, et al
2020
- **Islet damage during isolation as assessed by miRNAs and the correlation of miRNA levels with posttransplantation outcome in islet autotransplantation** *AMERICAN JOURNAL OF TRANSPLANTATION*
Saravanan, P., Kanak, M. A., Chang, C. A., Darden, C., Yoshimatsu, G., Lawrence, M. C., Naziruddin, B.
2018; 18 (4): 982–89
- **Ex-vivo generation of drug-eluting islets improves transplant outcomes by inhibiting TLR4-Mediated NF kappa B upregulation** *BIOMATERIALS*
Chang, C. A., Akinbobuyi, B., Quintana, J. M., Yoshimatsu, G., Naziruddin, B., Kane, R. R.
2018; 159: 13–24
- **Improved Outcomes of Islet Autotransplantation after Total Pancreatectomy by Combined Blockade of IL-1# and TNF#.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Naziruddin, B., Kanak, M. A., Chang, C. A., Takita, M., Lawrence, M. C., Dennison, A. R., Onaca, N., Levy, M. F.
2018
- **Early TLR4 blockade attenuates sterile inflammation-mediated stress in islets during isolation and promotes successful transplant outcomes.** *Transplantation*
Chang, C. A., Murphy, K., Kane, R. R., Lawrence, M., Naziruddin, B.
2018
- **Pancreatic beta-Cell-Derived IP-10/CXCL10 Isletokine Mediates Early Loss of Graft Function in Islet Cell Transplantation** *DIABETES*
Yoshimatsu, G., Kunnathodi, F., Saravanan, P., Shahbazov, R., Chang, C., Darden, C. M., Zurawski, S., Boyuk, G., Kanak, M. A., Levy, M. F., Naziruddin, B., Lawrence, M. C.
2017; 66 (11): 2857–67
- **Current issues in allogeneic islet transplantation** *CURRENT OPINION IN ORGAN TRANSPLANTATION*

Chang, C. A., Lawrence, M. C., Naziruddin, B.

2017; 22 (5): 437–43

- **Synthesis and immunostimulatory activity of substituted TLR7 agonists** *BIOORGANIC & MEDICINAL CHEMISTRY LETTERS*
Akinbobuyi, B., Wang, L., Upchurch, K. C., Byrd, M. R., Chang, C. A., Quintana, J. M., Petersen, R. E., Seifert, Z. J., Boquin, J. R., Oh, S., Kane, R. R.
2016; 26 (17): 4246–49
- **MiR-375 and miR-200c as predictive biomarkers of islet isolation and transplantation in total pancreatectomy with islet autotransplantation** *JOURNAL OF HEPATO-BILIARY-PANCREATIC SCIENCES*
Yoshimatsu, G., Takita, M., Kanak, M. A., Haque, W. Z., Chang, C., Saravanan, P., Lawrence, M. C., Levy, M. F., Naziruddin, B.
2016; 23 (9): 585–94
- **A Novel Set of microRNA Biomarkers Can Predict Outcomes of Pancreatic Islet Isolation and Graft Function Following Autologous Islet Transplantation for the Refractory Chronic Pancreatitis**
Yoshimatsu, G., Takita, M., Saravanan, P. B., Chang, C., Darden, C. M., Kanak, M. A., Saracino, G., Lawrence, M. C., Kim, P., Levy, M. F., Naziruddin, B.
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- **Comparison of Outcomes From Patients With Prior Surgery in Total Pancreatectomy With Islet Autotransplantation For Refractory Chronic Pancreatitis: A Single-Institution Experience With 120 Consecutive Cases**
Yoshimatsu, G., Takita, M., Shahbazov, R., Chang, C., Saravanan, P. B., Kanak, M. A., Lawrence, M. C., Kim, P., Onaca, N., Naziruddin, B., Levy, M. F.
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- **Monitoring of beta cell replacement outcomes** *PANMINERVA MEDICA*
Chang, C. A., Haque, W. Z., Yoshimatsu, G., Balaji, P. S., Lawrence, M. C., Naziruddin, B.
2016; 58 (1): 59–71
- **Facile syntheses of functionalized toll-like receptor 7 agonists** *TETRAHEDRON LETTERS*
Akinbobuyi, B., Byrd, M. R., Chang, C. A., Nguyen, M., Seifert, Z. J., Flamar, A., Zurawski, G., Upchurch, K. C., Oh, S., Dempsey, S. H., Enke, T. J., Le, J., Winstead, et al
2015; 56 (2): 458–460