



Panjamaporn Sangwung

Postdoctoral Research Fellow, Cardiovascular Medicine

Bio

HONORS AND AWARDS

- School of Medicine Dean's Postdoctoral Fellowship, Stanford University (2019-2020)
- Recknagel Symposium Award, Best Academic Record 2011-2012, Dept. of Physiology and Biophysics, Case Western Reserve University School of Medicine (2012)
- Young investigator travel award, The American Association for the Study of Liver Diseases (AASLD) (2011)
- Japanese Government (Monbukagakusho, MEXT) Scholarship, Kyorin University School of Medicine, Tokyo, Japan (2004 - 2006)
- Student Activity Fund, Thammasat University, Bangkok, Thailand (1999 - 2003)

PROFESSIONAL EDUCATION

- Master of Science, Mahidol University International Demonstration Sch (2006)
- Bachelor of Science, Thammasat University (2003)
- Doctor of Philosophy, Case Western Reserve University (2017)

Publications

PUBLICATIONS

- **Mitochondrial dysfunction, insulin resistance and potential genetic implications.** *Endocrinology*
Sangwung, P. n., Petersen, K. F., Shulman, G. I., Knowles, J. W.
2020
- **Proteostasis Regulators Restore Function of Epilepsy-Associated GABA(A) Receptors** *CELL CHEMICAL BIOLOGY*
Di, X., Wang, Y., Cotter, E., Wang, M., Whittsette, A. L., Han, D., Sangwung, P., Brown, R., Lynch, J. W., Keramidas, A., Mu, T.
2021; 28 (1): 46+
- **Alcohol-induced Hsp90 acetylation is a novel driver of liver sinusoidal endothelial dysfunction and alcohol-related liver disease.** *Journal of hepatology*
Yang, Y. n., Sangwung, P. n., Kondo, R. n., Jung, Y. n., McConnell, M. J., Jeong, J. n., Utsumi, T. n., Sessa, W. C., Iwakiri, Y. n.
2021
- **Myeloid Kruppel-like factor 2 is a critical regulator of metabolic inflammation** *NATURE COMMUNICATIONS*
Sweet, D. R., Vasudevan, N. T., Fan, L., Booth, C. E., Keerthy, K. S., Liao, X., Vinayachandran, V., Takami, Y., Tugal, D., Sharma, N., Chan, E., Zhang, L., Qing, et al
2020; 11 (1): 5872
- **Insulin Resistance and Mitochondrial Dysfunction Mediated by Nat1 Deficiency**
Sangwung, P., Fathzadeh, M., Knowles, J.
AMER DIABETES ASSOC.2020

- **FAM13A affects body fat distribution and adipocyte function.** *Nature communications*
Fathzadeh, M. n., Li, J. n., Rao, A. n., Cook, N. n., Chennamsetty, I. n., Seldin, M. n., Zhou, X. n., Sangwung, P. n., Gloude-mans, M. J., Keller, M. n., Attie, A. n., Yang, J. n., Wabitsch, et al
2020; 11 (1): 1465
- **Uremic Advanced Glycation End Products and Protein-Bound Solutes Induce Endothelial Dysfunction Through Suppression of Krüppel-Like Factor 2** *Uremic Advanced Glycation End Products and Protein-Bound Solutes Induce Endothelial Dysfunction Through Suppression of Krüppel-Like Factor 2*
Saum, K., Campos, B., Celdran-Bonafonte, D., Nayak, L., Sangwung, P., Thakar, C., Roy-Chaudhury, ., Owens, A.
2018; 7 (1)
- **Mitophagy is required for brown adipose tissue mitochondrial homeostasis during cold challenge.** *Scientific reports*
Lu, Y. n., Fujioka, H. n., Joshi, D. n., Li, Q. n., Sangwung, P. n., Hsieh, P. n., Zhu, J. n., Torio, J. n., Sweet, D. n., Wang, L. n., Chiu, S. Y., Croniger, C. n., Liao, et al
2018; 8 (1): 8251
- **KLF2 and KLF4 control endothelial identity and vascular integrity.** *JCI insight*
Sangwung, P., Zhou, G., Nayak, L., Chan, E. R., Kumar, S., Kang, D., Zhang, R., Liao, X., Lu, Y., Sugi, K., Fujioka, H., Shi, H., Lapping, et al
2017; 2 (4)
- **miR-483 Targeting of CTGF Suppresses Endothelial-to-Mesenchymal Transition Therapeutic Implications in Kawasaki Disease** *CIRCULATION RESEARCH*
He, M., Chen, Z., Martin, M., Zhang, J., Sangwung, P., Woo, B., Tremoulet, A. H., Shimizu, C., Jain, M. K., Burns, J. C., Shyy, J. Y.
2017; 120 (2): 354-?
- **A conserved KLF-autophagy pathway modulates nematode lifespan and mammalian age-associated vascular dysfunction.** *Nature communications*
Hsieh, P. N., Zhou, G. n., Yuan, Y. n., Zhang, R. n., Prosdocimo, D. A., Sangwung, P. n., Borton, A. H., Boriushkin, E. n., Hamik, A. n., Fujioka, H. n., Fealy, C. E., Kirwan, J. P., Peters, et al
2017; 8 (1): 914
- **Kruppel-like factor 4 regulates neutrophil activation** *Blood Advances*
Shen, Y., Hong, H., Sangwung, P., Lapping, S., Nayak, L., Zhang, L., Jain, M. K., Liao, X.
2017; 1: 662-668
- **Krüppel-Like Factor 4 Regulation of Cholesterol-25-Hydroxylase and Liver X Receptor Mitigates Atherosclerosis Susceptibility.** *Circulation*
Li, Z. n., Martin, M. n., Zhang, J. n., Huang, H. Y., Bai, L. n., Zhang, J. n., Kang, J. n., He, M. n., Li, J. n., Maurya, M. R., Gupta, S. n., Zhou, G. n., Sangwung, et al
2017; 136 (14): 1315–30
- **Short-term administration of Nicotinamide Mononucleotide preserves cardiac mitochondrial homeostasis and prevents heart failure.** *Journal of molecular and cellular cardiology*
Zhang, R. n., Shen, Y. n., Zhou, L. n., Sangwung, P. n., Fujioka, H. n., Zhang, L. n., Liao, X. n.
2017; 112: 64–73
- **Regulation of endothelial hemoglobin alpha expression by Kruppel-like factors.** *Vascular medicine (London, England)*
Sangwung, P. n., Zhou, G. n., Lu, Y. n., Liao, X. n., Wang, B. n., Mutchler, S. M., Miller, M. n., Chance, M. R., Straub, A. C., Jain, M. K.
2017; 22 (5): 363–69
- **Adipose KLF15 Controls Lipid Handling to Adapt to Nutrient Availability.** *Cell Rep.*
Matoba, K., Lu, Y., Zhang, R., Chen, E. R., Sangwung, P., Wang, B., Prosdocimo, D. A., Jain, M. K.
2017; 21 (11): 3129-3140
- **Kruppel-like factor 4 is critical for transcriptional control of cardiac mitochondria! homeostasis** *JOURNAL OF CLINICAL INVESTIGATION*
Liao, X., Zhang, R., Lu, Y., Prosdocimo, D. A., Sangwung, P., Zhang, L., Zhou, G., Anand, P., Lai, L., Leone, T. C., Fujioka, H., Ye, F., Rosca, et al
2015; 125 (9): 3461-3476
- **Circadian control of bile acid synthesis by a KLF15-Fgf15 axis** *NATURE COMMUNICATIONS*
Han, S. (., Zhang, R., Jain, R., Shi, H., Zhang, L., Zhou, G., Sangwung, P., Tugal, D., Atkins, G. B., Prosdocimo, D. A., Lu, Y., Han, X., Tso, et al
2015; 6
- **Regulation of an Inflammatory Disease Kruppel-Like Factors and Atherosclerosis** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Jain, M. K., Sangwung, P., Hamik, A.

2014; 34 (3): 499-508

- **Kruppel-like factor 15 is critical for vascular inflammation** *JOURNAL OF CLINICAL INVESTIGATION*
Lu, Y., Zhang, L., Liao, X., Sangwung, P., Prosdocimo, D. A., Zhou, G., Votruba, A. R., Brian, L., Han, Y. J., Gao, H., Wang, Y., Shimizu, K., Weinert-Stein, et al
2013; 123 (10): 4232-4241
- **Antigen-specific, antibody-coated, exosome-like nanovesicles deliver suppressor T-cell microRNA-150 to effector T cells to inhibit contact sensitivity** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Bryniarski, K., Ptak, W., Jayakumar, A., Puellmann, K., Caplan, M. J., Chairoungdua, A., Lu, J., Adams, B. D., Sikora, E., Nazimek, K., Marquez, S., Kleinstein, S. H., Sangwung, et al
2013; 132 (1): 170-U287
- **Proteomic Identification of S-Nitrosylated Golgi Proteins: New Insights into Endothelial Cell Regulation by eNOS-Derived NO** *PLOS ONE*
Sangwung, P., Greco, T. M., Wang, Y., Ischiropoulos, H., Sessa, W. C., Iwakiri, Y.
2012; 7 (2)
- **Reticulon 4B (Nogo-B) Is a Novel Regulator of Hepatic Fibrosis** *HEPATOLOGY*
Zhang, D., Utsumi, T., Huang, H., Gao, L., Sangwung, P., Chung, C., Shibao, K., Okamoto, K., Yamaguchi, K., Groszmann, R. J., Jozsef, L., Hao, Z., Sessa, et al
2011; 53 (4): 1306-1315
- **Pyrazolylthiazole as Delta F508-Cystic Fibrosis Transmembrane Conductance Regulator Correctors with Improved Hydrophilicity Compared to Bithiazoles** *JOURNAL OF MEDICINAL CHEMISTRY*
Ye, L., Knapp, J. M., Sangwung, P., Fettingner, J. C., Verkman, A. S., Kurth, M. J.
2010; 53 (9): 3772-3781