



Katharina Schimmel

Postdoctoral Research Fellow, Cardiovascular Institute

Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Runner-up in the Young Investigator Award Session, Dutch German Cardiology Meeting 2018, Amsterdam (03/2018)
- New Investigator Travel Award for the talk on cardiac regeneration in the Session "Next Best Thing", AHA Basic Cardiovascular Sciences 2019 Scientific Sessions, Boston (07/2019)
- Work on cardiac fibrosis ranked position #1 for ingenuity, Scientific advisory board of the FIBROTARGETS consortium, Annual Meeting 2016, Rome (08/2016)
- Best Poster Session Basic Science, ESC (European Society of Cardiology) Congress 2017, Barcelona (08/2017)
- Vevo Travel Award 2019 in Cardiology Track, FUJIFILM VisualSonics Inc (10/2019)
- Stanford Cardiovascular Institute Travel Award, AHA Scientific Sessions 2018, Chicago (11/2018)
- Achievement scholarships, Karl-Franzens-University Graz (2007 and 2008)

PROFESSIONAL EDUCATION

- Certificate, Stanford Graduate School of Business , Stanford Ignite Entrepreneurship Program (2020)
- Master of Science, Universitat Graz (2012)
- Doctor of Philosophy, Hanover School of Medicine (2017)

PATENTS

- Thomas Thum, Katharina Schimmel, Quoc-Tuan Do, Philippe Bernard. "United States Patent US16/481,569 Natural compounds and fibrosis", MEDIZINISCHE HOCHSCHULE HANNOVER, Jan 29, 2018

Publications

PUBLICATIONS

- **High-Frequency Ultrasound Echocardiography to Assess Zebrafish Cardiac Function** *Journal of Visualized Experiments*
Evangelisti, A., Schimmel, K., Joshi, S., Shah, K., Fisch, S., Alexander, K. M., Liao, R., Morgado, I.
2020
- **Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction.** *Circulation*
Schimmel, K., Jung, M., Foinquinos, A., San José, G., Beaumont, J., Bock, K., Grote-Levi, L., Xiao, K., Bär, C., Pfanne, A., Just, A., Zimmer, K., Ngoy, et al
2020
- **Long Noncoding RNA-Enriched Vesicles Secreted by Hypoxic Cardiomyocytes Drive Cardiac Fibrosis** *MOLECULAR THERAPY-NUCLEIC ACIDS*
Kenneweg, F., Bang, C., Xiao, K., Boulanger, C. M., Loyer, X., Mazlan, S., Schroen, B., Hermans-Beijnsberger, S., Foinquinos, A., Hirt, M. N., Eschenhagen, T., Funcke, S., Stojanovic, et al

2019; 18: 363–74

- **Gene Signatures to Distinguish Amyloid Cardiomyopathy Risk in Multiple Myeloma Patients**
Jha, A., Morgado, I., Lee, D. J., Alexander, K., Tsai, C., Schimmel, K., Ward, J., Witteles, R., Liedtke, M., Liao, R., Dangwal, S.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Prenatal Exposure of Cigarette Smoke Impacts Cardiac Regeneration**
Schimmel, K., Morgado, I., Tsai, C., Evangelisti, A., Fisch, S., Ngoy, S., Lee, D., Dangwal, S., Alexander, K., Ward, J. E., Liao, R.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Blood-based microRNA profiling in patients with cardiac amyloidosis** *PLOS ONE*
Derda, A. A., Pfanne, A., Baer, C., Schimmel, K., Kennel, P. J., Xiao, K., Schulze, P., Bauersachs, J., Thum, T.
2018; 13 (10): e0204235
- **A large shRNA library approach identifies lncRNA Ntep as an essential regulator of cell proliferation.** *Cell death and differentiation*
Beermann, J., Kirste, D., Iwanov, K., Lu, D., Kleemiß, F., Kumarswamy, R., Schimmel, K., Bär, C., Thum, T.
2018; 25 (2): 307–18
- **Leukocyte telomere length correlates with hypertrophic cardiomyopathy severity.** *Scientific reports*
Chatterjee, S., de Gonzalo-Calvo, D., Derda, A. A., Schimmel, K., Sonnenschein, K., Bavendiek, U., Bauersachs, J., Bär, C., Thum, T.
2018; 8 (1): 11227
- **Mitochondrial energy metabolism is required for lifespan extension by the spastic paraplegia-associated protein spartin** *MICROBIAL CELL*
Ring, J., Rockenfeller, P., Abraham, C., Tadic, J., Poglitsch, M., Schimmel, K., Westermayer, J., Schauer, S., Achleitner, B., Schimpel, C., Moitzi, B., Rechberger, G. N., Sigrist, et al
2017; 4 (12): 411–22
- **Noncoding RNAs in Heart Failure** *HEART FAILURE*
Dangwal, S., Schimmel, K., Foinquinos, A., Xiao, K., Thum, T., Bauersachs, J., Butler, J., Sandner, P.
2017; 243: 423–45
- **MicroRNA-Based Therapy of GATA2-Deficient Vascular Disease.** *Circulation*
Hartmann, D., Fiedler, J., Sonnenschein, K., Just, A., Pfanne, A., Zimmer, K., Remke, J., Foinquinos, A., Butzlaff, M., Schimmel, K., Maegdefessel, L., Hilfiker-Kleiner, D., Lachmann, et al
2016; 134 (24): 1973–90
- **Nucleocytosolic Depletion of the Energy Metabolite Acetyl-Coenzyme A Stimulates Autophagy and Prolongs Lifespan** *CELL METABOLISM*
Eisenberg, T., Schroeder, S., Andryushkova, A., Pendl, T., Kuettner, V., Bhukel, A., Marino, G., Pietrocola, F., Harger, A., Zimmermann, A., Moustafa, T., Sprenger, A., Jany, et al
2014; 19 (3): 431–44