



Anna Hnatiuk Hnatiuk

Instructor, Cardiovascular Institute

Bio

ACADEMIC APPOINTMENTS

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

HONORS AND AWARDS

- K99/R00, NCI-NIH (August 2023)
- SPARK Award, Stanford (June 2023)
- Career Development Award, PLN Heart Foundation (2022)
- MAVENS Early Career Program, Stanford Cardiovascular Institute, Stanford University (April 2022)
- Stanford CVI Travel Award, Stanford University (May 2022)
- BCVS AHA Top Postdoctoral Abstract in the 2022 Early Career Poster Competition., American Heart Association Council of Basic Cardiovascular Science (July 2022)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Association for Women in Science (AWIS) (2020 - present)
- Associate Member, American Association for Cancer Research (AACR) (2022 - present)
- Member, American Heart Association (AHA) (2019 - present)

Publications

PUBLICATIONS

- **Comparing the Efficacy of Myosin Inhibition Versus Thin Filament Calcium Desensitization for Treatment of Pediatric Restrictive Cardiomyopathy Using a Patient-Derived hiPSC Model.** *Circulation. Genomic and precision medicine*
Staudt, D. W., Serrano, R., Hnatiuk, A. P., Sanchez, I., Carhuamaca, X., Feyen, D. A., Mercola, M.
2025: e005464
- **Abstract 4370456: Multiparameter Assessment of TNNI3 Cardiomyopathy Variants for Precision Medicine**
Staudt, D., Tran, P., Floyd, B., Han, D., Jackson, W., Carhuamaca, X., Serrano, R., Hnatiuk, A., Cheng, P., Parikh, V., Ashley, E., Mercola, M.
LIPPINCOTT WILLIAMS & WILKINS.2025: A4370456
- **Protective Mechanisms Against Cardiac Toxicity of the EGFR Tyrosine Kinases Inhibitor Osimertinib**
Hnatiuk, A., Staudt, D., Vecci, B., Carhuamaca, X., Mercola, M.
LIPPINCOTT WILLIAMS & WILKINS.2025: A4370530
- **Empagliflozin Improves Cardiomyocyte Function in Phospholamban-R14del Cardiomyopathy by Regulating Calcium/Calmodulin-Stimulated Protein Kinase II Activity and Apoptosis.** *Journal of the American Heart Association*

Hnatiuk, A. P., Li, A. W., Vecchi, B. E., Staudt, D. W., Serrano, R., Gao, X., Tran, P. P., Mercola, M.
2025: e042432

- **Discovery of BRD9 Molecular Glue Degraders That Spare Cardiomyocytes.** *Journal of the American Chemical Society*
Byun, W. S., Zhuang, Z., Hnatiuk, A. P., Jin, C., Jiang, Z., Baek, K., Chao, E., Donovan, K. A., Fischer, E. S., Mercola, M., Gray, N. S.
2025
- **Function-First Assessment of TNNI3 Cardiomyopathy Variants To Predict Clinical Outcomes**
Staudt, D., Tran, P., Floyd, B., Dunn, K., Han, D., Carhuamaca, X., Hnatiuk, A., Serrano, R., Parikh, V., Ashley, E., Mercola, M.
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Osimertinib-Associated Cardiomyopathy In Patients With Non-Small Cell Lung Cancer: A Case Series** *JACC: CardioOncology*
Franquiz, M., Waliyany, S., Xu, A., Hnatiuk, A., Wu, S., Cheng, P., Wakelee, H., Neal, J., Witteles, R., Zhu, H.
2023: 839-841
- **A deep learning platform to assess drug proarrhythmia risk.** *Cell stem cell*
Serrano, R., Feyen, D. A., Bruyneel, A. A., Hnatiuk, A. P., Vu, M. M., Amatya, P. L., Perea-Gil, I., Prado, M., Seeger, T., Wu, J. C., Karakikes, I., Mercola, M.
2022
- **Metabolic Maturation Increases Susceptibility to Hypoxia-induced Damage in Human iPSC-derived Cardiomyocytes.** *Stem cells translational medicine*
Peters, M. C., Maas, R. G., van Adrichem, I., Doevendans, P. A., Mercola, M., Saric, T., Buikema, J. W., van Mil, A., Chamuleau, S. A., Sluijter, J. P., Hnatiuk, A. P., Neef, K.
2022
- **Designing Novel BCR-ABL Inhibitors for Chronic Myeloid Leukemia with Improved Cardiac Safety.** *Journal of medicinal chemistry*
Pandrala, M., Bruyneel, A. A., Hnatiuk, A. P., Mercola, M., Malhotra, S. V.
2022
- **Reengineering Ponatinib to Minimize Cardiovascular Toxicity** *CANCER RESEARCH*
Hnatiuk, A. P., Bruyneel, A. A. N., Tailor, D., Pandrala, M., Dheeraj, A., Li, W., Serrano, R., Feyen, D. A. M., Vu, M. M., Amatya, P., Gupta, S., Nakauchi, Y., Morgado, et al
2022; 82 (15): 2777-2791
- **Human iPSC modeling of heart disease for drug development.** *Cell chemical biology*
Hnatiuk, A. P., Briganti, F. n., Staudt, D. W., Mercola, M. n.
2021; 28 (3): 271–82
- **Stars in the Night Sky: iPSC-Cardiomyocytes Return the Patient Context to Drug Screening.** *Cell stem cell*
Hnatiuk, A., Mercola, M.
2019; 24 (4): 506–7
- **Stars in the Night Sky: iPSC-Cardiomyocytes Return the Patient Context to Drug Screening** *CELL STEM CELL*
Hnatiuk, A., Mercola, M.
2019; 24 (4): 506–7
- **High-dose intramyocardial HMGB1 induces long-term cardioprotection in sheep with myocardial infarction.** *Drug delivery and translational research*
Bauzá, M. D., Giménez, C. S., Locatelli, P. n., De Lorenzi, A. n., Hnatiuk, A. n., Capogrossi, M. C., Crottogini, A. n., Cuniberti, L. n., Olea, F. D.
2019; 9 (5): 935–44
- **Effect of poly (l-lactic acid) scaffolds seeded with aligned diaphragmatic myoblasts overexpressing connexin-43 on infarct size and ventricular function in sheep with acute coronary occlusion.** *Artificial cells, nanomedicine, and biotechnology*
Giménez, C. S., Olea, F. D., Locatelli, P. n., Dewey, R. A., Abraham, G. A., Montini Ballarin, F. n., Bauzá, M. D., Hnatiuk, A. n., De Lorenzi, A. n., Neira Sepúlveda, Á. n., Embon, M. n., Cuniberti, L. n., Crottogini, et al
2018; 46 (sup3): S717–S724
- **Allogeneic Mesenchymal Stromal Cells Overexpressing Mutant Human Hypoxia-Inducible Factor 1-a (HIF1-a) in an Ovine Model of Acute Myocardial Infarction.** *Journal of the American Heart Association*

- Hnatiuk, A. P., Ong, S., Olea, F. D., Locatelli, P., Riegler, J., Lee, W. H., Jen, C. H., De Lorenzi, A., Giménez, C. S., Laguens, R., Wu, J. C., Crottogini, A.
2016; 5 (7)
- **Mesenchymal stromal cells overexpressing vascular endothelial growth factor in ovine myocardial infarction.** *Gene therapy*
Locatelli, P., Olea, F. D., Hnatiuk, A., De Lorenzi, A., Cerdá, M., Giménez, C. S., Sepúlveda, D., Laguens, R., Crottogini, A.
2015; 22 (6): 449-57
 - **Vascular endothelial growth factor overexpression does not enhance adipose stromal cell-induced protection on muscle damage in critical limb ischemia.** *Arteriosclerosis, thrombosis, and vascular biology*
Olea, F. D., Locatelli, P., Hnatiuk, A., De Lorenzi, A., Valdivieso, L., Rocha, E., Ramírez, R., Laguens, R., Crottogini, A.
2015; 35 (1): 184-8
 - **Efficient plasmid-mediated gene transfection of ovine bone marrow mesenchymal stromal cells.** *Cytotherapy*
Locatelli, P., Olea, F. D., Hnatiuk, A., Sepúlveda, D., Pérez Sáez, J. M., Argüello, R., Crottogini, A.
2013; 15 (2): 163-70
 - **Reference values for echocardiographic parameters and indexes of left ventricular function in healthy, young adult sheep used in translational research: comparison with standardized values in humans.** *International journal of clinical and experimental medicine*
Locatelli, P., Olea, F. D., De Lorenzi, A., Salmo, F., Vera Janavel, G. L., Hnatiuk, A. P., Guevara, E., Crottogini, A. J.
2011; 4 (4): 258-64
 - **An ovine model of postinfarction dilated cardiomyopathy in animals with highly variable coronary anatomy.** *ILAR journal*
Locatelli, P., Olea, F. D., Mendiz, O., Salmo, F., Fazzi, L., Hnatiuk, A., Laguens, R., Crottogini, A.
2011; 52 (1): E16-21