

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.  
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Christina Gallo-Ebert., Ph.D.		POSITION TITLE Team Leader	
eRA COMMONS USER NAME			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Lehigh University, Bethlehem, PA	B.S.	2002	Biology & Spanish
Drexel University College of Medicine, Philadelphia, PA	Ph.D.	2008	Molecular & Cellular Biology & Genetics

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

**A. PROFESSIONAL POSITIONS:**

- 2007-2010 Research Scientist, Division of Pharmacogenomics, Medical Diagnostic Laboratories, Hamilton, NJ 08690
- 2010-2013 Research Scientist, Target Biology, Venenum BioDesign L.L.C., Hamilton, NJ 08691
- 2013- Team Leader, IMD, The Institute for Metabolic Disorders, Hamilton, NJ 08690

**PROFESSIONAL AWARDS AND HONORS:**

- 2002- Member of the Genetic Society of America and American Society for Microbiology
- 2006-2008 Pre-doctoral Fellowship Award, American Heart Association
- 2014- Editorial board member for the Journal of Antibiotics Research

**B. PUBLICATIONS:**

- Germann, M., **Gallo, C.**, Donahue, T., Shirzadi, R., Stuke, J., Lang, S., Ruckenstuhl, C., Oliaro-Bosso, S., McDonough, V., Turnowsky, F., Balliano, G., and Nickels, Jr., J.T. (2005) Characterizing sterol defect suppressors uncovers a novel transcriptional signaling pathway regulating zymosterol biosynthesis *J. Biol. Chem.* 280 35904-35913.
- Nolt, J.K., Rice, L.M., **Gallo-Ebert, C.**, Bisher, M.E., and Nickels, Jr., J.T. (2011) PP2A<sup>Cdc55</sup> is required for multiple events during meiosis I. *Cell Cycle* 10 1420-1434.
- Gallo-Ebert, C.**, McCourt, P.C., Donigan, M., Villasmil, M.L., Pandya, D., Franco, J., Chadwick, S.G., Gyax, S.E., and Nickels, Jr., J.T. (2012) Arv1 lipid transporter function is conserved between pathogenic and nonpathogenic fungi. *Fungal Genetics and Biology*. 49 101-113.
- McCourt, P., **Gallo-Ebert, C.**, Gonhong, Y., Jiang, Y., and Joseph T. Nickels, Jr. (2013) PP2A<sup>Cdc55</sup> regulates G<sub>1</sub> cyclin stability. *Cell Cycle* 12 1201-1210.

5. **Gallo-Ebert, C.**, Donigan, M., Stroke, I.L., Swanson, R.N., Manners, M.T., Francisco, J., Toner, G., Gallagher, D., Huang, C-Y., Gygax, S.E., Webb, M., and Nickels, Jr., J.T. (2014) Novel antifungal drug discovery based on targeting pathways regulating the fungal-conserved Upc2 transcription factor. *Antimicrobial Agents and Chemotherapy*. 58 (1):258-66.
6. **Gallo-Ebert, C.**, Donigan, M., Liu, H-Y., Pascual, F., Manners, M., Pandya, D., Swanson, R., Gallagher, D., Chen, W., Carman, G.M., Nickels, Jr., J.T. (2013) The yeast anaerobic response element AR1<sub>b</sub> regulates aerobic antifungal drug-dependent sterol gene expression. *J. Biol. Chem.* 288 35466-35477.
7. Yang, M., Liu, W., Pellicane, C., Sahyoun, C., Joseph, B., **Gallo-Ebert, C.**, Donigan, M., Pandya, D., Giordano, C., Bata, A, and Nickels, Jr., J.T. (2014) Identification of miR-185 as a regulator of *de novo* cholesterol biosynthesis and low-density lipoprotein uptake. *J. Lipid Res.* 55(2):226-38.
8. Pallai, R., Bhaskar, A., Burnett-Bernodat, N., **Gallo-Ebert, C.**, Nickels, Jr., J. T., Rice, L. M. (2015) Leucine rich repeat-containing protein 59 mediates nuclear import of cancerous inhibitor of PP2A in prostate cancer cells. *Tumor Biol.* 36 6368-6390.
9. Pallai, R., Bhaskar, A., Burnett-Bernodat, N., **Gallo-Ebert, C.**, Michelle Pusey, Nickels, Jr., J. T., Rice, L. M. (2015) Cancerous inhibitor of protein phosphatase 2A (CIP2A) promotes premature chromosome segregation and aneuploidy in prostate cancer cells through association with shugoshin. *Tumor Biol.* 36 6067-6074.
10. Joseph, B., Liu, H-Y., Francisco, J., Pandya, D., Donigan, M., **Gallo-Ebert, C.**, Giordano, C., Bata, A., Nickels, Jr., J.T. (2015) Inhibition of AMP kinase by the protein phosphatase 2A heterotrimer, PP2A<sup>Ppp2r2d</sup>. *J. Biol. Chem.* 290 10588-10598.
11. Villasmil, M. L., Francisco, J., **Gallo-Ebert, C.**, Donigan, M., Liu, H-Y., Brower, M., and Nickels, J. T., Jr. (2016) Ceramide signals for initiation of yeast mating-specific cell cycle arrest. *Cell Cycle* 15 441-454.  
\*Article featured in *Cell Cycle "News and Views"*. Matmati N, Kitagaki, and Hannun, YA (2016) New role for ceramide in the pheromone response. *Cell Cycle* 15 617-618.
12. McCourt, P., Liu, Hsing-Yin., Parker, J.E., **Gallo-Ebert, C.**, Donigan, M., Bata, A., Giordano, C., Kelly, S.L., and Nickels, J.T., Jr. Proper sterol distribution is required for *Candida albicans* hyphal formation and virulence (2016) G3: Genes, Genomes, Genetics (*in press*).

## **Presentations:**

1. Swanson RN, Stroke IL, Manners MT, **Gallo-Ebert C**, Nickels J. Engineering Transcription Factors for Use in Ultra-High Throughput DNA Binding Assays. 7th Annual Protein Engineering Summit, Boston, MA. May 9-13, 2011.
2. Stroke IL, Manners MT, Swanson RN, Dimitrov D, **Gallo-Ebert C**, Nickels J. Targeting the Transcription Factor Upc2 for Antifungal Drug Discovery. Society for Biomolecular Sciences Annual Meeting, Orlando, Fla., March 26-31, 2011.
3. Beasley, J. R, Huang, C.-Y, **Gallo-Ebert, C**, Bata, A, Donigan, M, Giordano, C, Kanneganti, N, Malone, J, Sieber-McMaster, E, Nawoschik, S, O'Brien, L, Pham, Q, Severinova, E, Shi, D, Swanson, R, Tovar, K, Xu, X, Zalamea, P, Nickels, J, Stein, P, & Webb, M. W. Discovery and Optimization of GPBAR1 (TGR5) Agonists. Society for Laboratory Automation and Screening 2nd Annual Conference and Exhibition. Orlando, Florida January 12-16, 2013.
4. Francisco, J, **Gallo-Ebert, C**, Liu, HY, Batta, A, Giordano, C, Buiakova, O, and Nickels, JT. Arv1 Regulates the Onset of Nonalcoholic Fatty Liver Disease (NAFLD). RCLR Lipids and Metabolic Diseases Symposium. Rutgers, Nov. 5, 2015.
5. Hayward, M, **Gallo-Ebert, C**, Liu, HY, Jones, B, Francisco, J, Buiakova, O, Nickels, JT. Arv1 KO Mice Are Resistant To Diet-Induced Obesity And The Related Glucohomeostatic and Hepatic Impairments. Endocrine Society, ENDO 2016 (Boston, MA) April 1-4, 2016.

## **C. FUNDING**

### **Extramural**

Title: Sterol Gene Transcriptional Regulation

P.I.: Christina M. Gallo Funding Source: American Heart Association

Type: Pre-doctoral Fellowship Award Period: 7/1/06- 6/30/08

The goal of this project was to elucidate novel transcriptional mechanisms involved in sensing cellular sterol levels in order to test new sites for regulation of sterol in eukaryotes.