

James B Burritt

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Associate Professor, University of Wisconsin- Stout
Biology Department
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Education

- **Ph D Microbiology**
Montana State University
Bozeman, MT, 1995
- **MT (ASCP) Medical Technology**
Trinity Lutheran Hospital
1983
- **BS Microbiology**
Colorado State University
Fort Collins, CO, United States, 1982

Work Experience

Academic - Post-Secondary

- **University of Wisconsin-Stout**, Biochemistry and Molecular Biology
Concentration Director
July 2015 -
- **University of Wisconsin- Stout**
Associate Professor
August 2009 -
- , Montana State University
Assistant Professor
January 2003 - July 2009
- , Montana State University
Assistant Research Professor
1999 - 2003
- , Montana State University
Post-doctoral Res. Assoc
1995 - 1999

Intellectual Contributions

Journal Article

- Marringa, W. J., Krueger, M. J., Burritt, N. L., & Burritt, J. B. Honey Bee Hemocyte Profiling by Flow Cytometry. *PLoS ONE*, 9(10).
- Carlon, A., Burritt, J. B., & Grant, J. E. Characterization and protein profiles of bacteria grown from. *UW-Stout Journal of Student Research*, XII, 149-160.
- Krueger, M., & Burritt, J. B. The Telomere-Specific Effect of Inonotus obliquus Extract on in vitro Cultured HFF-1 Cells. *Wisconsin-Stout Journal of Student Research for 2013*.

- Burritt, J. B., & Carlon, A. Characterization and protein profiles of bacteria grown from honeybee (*Apis mellifera*) gut contents. *Wisconsin-Stout Journal of Student Research*.
- Prah, B., & Burritt, J. B. Contact-dependent Immune Response by Macrophages. *University of Wisconsin-Stout Journal of Student Research*.
- Ejlerskov, P., Ploug, D., Burritt, J. B., Paclet, M., Gorlach, A., van Deurs, B., & Vilhardt, F. Regulated trafficking of NADPH oxidase between the cell surface and a novel type of storage compartment. *Journal of Biological Chemistry*, 10, 4835-4852.
- Prah, B., Seehaver, T., & Burritt, J. B. Immune Mechanism in Lung Prevents Fungal Infection. *University of Wisconsin-Stout Journal of Student Research*.
- Ejlerskov, P., Ploug, D., Burritt, J. B., Paclet, M., Gorlach, A., van Deurs, B., & Vilhardt, F. Regulated trafficking of NADPH oxidase between the cell surface and a novel type of storage compartment. *Epub*.
- Cornish, E. J., Hurtgen, B. J., McInerney, K., Burritt, N. L., Taylor, R. M., Jarvis, J. N., Wang, S. Y., & Burritt, J. B. Reduced Nicotinamide Adenine Dinucleotide Phosphate Oxidase-Independent Resistance to *Aspergillus fumigatus* in Alveolar Macrophages. *J. Immunol*, 180, 6854-6867.
- Lord, C. I., Riesselman, M. H., Gripenrog, J. M., Burritt, J. B., Jesaitis, A. J., & Taylor, R. M. Single-step immunoaffinity purification and functional reconstitution of human phagocyte flavocytochrome b. *J. Immunol. Methods*, 329, 201-207.
- Willger, S. D., Wannaying, S., Kim, K., Burritt, J. B., Metzler, L. J., Barbuch, R., Bard, M., Lawrence, C. B., & Cramer, R. A. A sterol-regulatory element binding protein is required for morphogenesis, hypoxia adaptation, and virulence in *Aspergillus fumigatus*. *Epub*.
- Willger, S. D., Wannaying, S., Kim, K., Burritt, J. B., Metzler, L. J., Barbuch, R., Bard, M., Lawrence, C. B., & Cramer, R. A. A sterol-regulatory element binding protein is required for morphogenesis, hypoxia adaptation, and virulence in *Aspergillus fumigatus*. *PLoS Pathogens*(11).
- Taylor, R. M., Maaty, W. S., Lord, C. I., Hamilton, T., Burritt, J. B., Bothner, B., & Jesaitis, A. J. Cloning, sequence analysis and confirmation of derived gene sequences for three epitope-mapped monoclonal antibodies against human phagocyte flavocytochrome b. *Mol. Immunol.*, 44, 625-637.
- Stie, J., Jesaitis, A. V., Lord, C. I., Gripenrog, J. M., Taylor, R. M., Burritt, J. B., & Jesaitis, A. J. Localization of hCAP-18 on the surface of chemoattractant-stimulated human granulocytes: analysis using two novel hCAP-18-specific monoclonal antibodies. *J. Leukoc. Biol.*, 82, 161-172.
- Wilkinson, R. A., Evans, J. R., Jacobs, J. M., Slunaker, D., Pincus, S. H., Pinter, A., Parkos, C. A., Burritt, J. B., & Teintze, M. Peptides selected from a phage display library with an HIV-neutralizing antibody elicit antibodies to HIV gp120 in rabbits, but not to the same epitope. *AIDS Res. Hum. Retroviruses*, 23, 1416-1427.
- Taylor, R. M., Baniulis, D., Burritt, J. B., Gripenrog, J. M., Lord, C. I., Riesselman, M. H., Maaty, W. S., Bothner, B. P., Angel, T. E., Dratz, E. A., Linton, G. F., Malech, H. L., & Jesaitis, A. J. Analysis of human phagocyte flavocytochrome b(558) by mass spectrometry. *J Biol. Chem.*, 281, 37045-37056.
- Bonnett, C. R., Cornish, E. J., Harmsen, A. G., & Burritt, J. B. Early neutrophil recruitment and aggregation in the murine lung inhibit germination of *Aspergillus fumigatus* Conidia. *Infect. Immun.*, 74, 6528-6539.
- Baniulis, D., Nakano, Y., Nauseef, W. M., Banfi, B., Cheng, G., Lambeth, D. J., Burritt, J. B., Taylor, R. M., & Jesaitis, A. J. Evaluation of two anti-gp91phox antibodies as immunoprobes for Nox family proteins: mAb 54.1 recognizes recombinant full-length Nox2, Nox3 and the C-terminal domains of Nox1-4 and cross-reacts with GRP 58. *Biochim. Biophys. Acta*, 1752, 186-196.
- Baniulis, D., Burritt, J. B., Taylor, R. M., Dinauer, M. C., Heyworth, P. G., Parkos, C. A., Magnusson, K. E., & Jesaitis, A. J. Monoclonal antibody CL5 recognized the amino terminal domain of human phagocyte flavocytochrome b558 large subunit gp91phox. *Eur J Haematol*, 74, 337-347.
- Baniulis, D., Nauseef, W. M., Burritt, J. B., Taylor, R. M., Heyworth, P. G., Dinauer, M. C., Bumelis, A., Magnusson, K. E., & Jesaitis, A. J. Unusual polyclonal anti-gp91 peptide antibody interactions with X-linked chronic granulomatous disease-derived human neutrophils are not from compensatory expression of Nox proteins 1, 3, or 4. *Eur. J Haematol*, 74, 241-249.
- Taylor, R. M., Foubert, T. R., Burritt, J. B., Baniulis, D., McPhail, L. C., & Jesaitis, A. J. Anionic amphiphile and phospholipid-induced conformational changes in human neutrophil flavocytochrome b observed by fluorescence resonance energy transfer. *Biochim. Biophys. Acta*, 1663, 201-213.

- Taylor, R. M., Burritt, J. B., Baniulis, D., Foubert, T. R., Lord, C. I., Dinauer, M. C., Parkos, C. A., & Jesaitis, A. J. Site-specific inhibitors of NADPH oxidase activity and structural probes of flavocytochrome b: characterization of six monoclonal antibodies to the p22phox subunit. *J Immunol*(173), 7349-7357.

Presentations

Poster

- Doering, S., Lee, E. J., Burritt, J. B., & Grant, J. E. (2014). Potential Antimicrobial Effect of Phosphopeptides From Phosvitin. Research Day, Menomonie, WI.

Local

- Little, A. M., Burritt, J. B., & James, K. (2012). Research at UW-Stout. UW-Stout New Instructor Workshop, Menomonie, WI.

Grants, Contracts, and Sponsored Research

Grant

- Pickart, M., Hashmi, M. P., & Burritt, J. B. Health Sciences Education Collaborative Project: Marshfield Clinic, UW-River Falls, and UW-Stout. Sponsored by UW-Stout Curriculum Incubation Center Grant, \$8960.
- Hashmi, M. P., Parsons, A. M., Burritt, J. B., & Pickart, M. Curricular Incubation Center. Sponsored by UW-Stout, \$6831 (Not Funded).

Sponsored Research

- Burritt, J. B. Honey Bee Hemocyte Profiles Associated with Winter Hardiness. Sponsored by North American Pollinator Protection Campaign (Funded).
- Burritt, J. B. Mechanisms of Resistance to Invasive Pulmonary Aspergillosis by Alveolar Macrophages. Sponsored by Chronic Granulomatous Disease Trust, 1 yr (Funded).
- Burritt, J. B. Interactive Phagocyte Response in Aspergillosis Immunity. Sponsored by NIH, #1R03 AI057931-01 (Funded).
- Burritt, J. B. Immunotherapies to Zoonotic Disease. Sponsored by NIH, COBRE #1P20 RR020185-01 (Funded).
- Burritt, J. B. Conformational Changes of Neutrophil Flavocytochrome b by Epitope and Gene-fragment Expression Analysis. Sponsored by Scientist Development Grant (Funded).

Awards, Fellowships, Honors, and Scholarships

Honor

- 2009 President's Excellence in Teaching Award, Montana State University (2009)
- 2007 President's Excellence in Teaching Award, Montana State University (2007)
- College of Letters and Science Outstanding Teaching Award, (2005)

Award

- Faculty Collegiality Award, Dept of Microbiology, Montana State University (2009)
- Mortarboard Faculty Award in Teaching, Montana State University (2008)
- Faculty Collegiality Award, Dept of Microbiology at Montana State University, (2007)
- Mortarboard Faculty Award in Teaching, Montana State University (2005)

