

Curriculum Vitae Michelle Momany

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Education

B.A.	Microbiology, The University of Texas at Austin	1985
Ph.D.	Microbiology, The University of Texas at Austin	1992

Research and Teaching Experience

Department Head	2008-
Professor	2008-
Associate Professor	2002-2008
Assistant Professor	1996-2002

Dept. of Plant Biology, University of Georgia
Polarity, cell wall and secretion in the model filamentous fungus Aspergillus nidulans and the fungal pathogen of humans Aspergillus fumigatus

Awards and Honors

Burroughs Wellcome New investigator in Pathogenic Mycology	1997-2001
Sandy Beaver Excellence in Teaching Award (Franklin College, UGA)	2005
Gordon Research Conference: Cellular and Molecular Fungal Biology	2006

Elected Vice co-chair for 2008, Co-chair for 2010
Fungal Genetics Policy Committee (2003-)
Aspergillus Genome Research Policy Committee (2003-)
AGRPC Chair (4/2004-)
AGRPC Meeting co-organizer (4/04-)
Gordon Research Conference Chair-elect: Cellular and Molecular Fungal Biology (Vice co-chair 2008, Co-chair 2010)

Publications (past 5 years only)

Research

- Momany, M.**, Pan, F. and R. Malmberg. 2008. Evolution and conserved domains of the septins. In *The Septins* (eds. P. Hall, H. Russell and J. Pringle), John Wiley and Sons Ltd., *in press*.
- Breakspear, A., Langford, K., **Momany, M.** and S. Assinder. 2007. CopA:GFP localizes to putative Golgi equivalents in *Aspergillus nidulans*. *FEMS Microbiology Letters*, 277: 90-7.
- Breakspear, A. and **M. Momany**. 2007. *Aspergillus nidulans* conidiation genes *dewA*, *fluG* and *stuA* are differentially regulated in early vegetative growth. *Eukaryotic Cell* 6: 1697-200.
- Pan, F., Malmberg, R. and **M. Momany**. 2007. Analysis of septins across kingdoms reveals orthology and new motifs. *BMC Evolutionary Biology* 7, 103.
- Toledo, M., Levery, S.B., Bennion, B., Guimaraes, L.L., Castle, S.L., Lindsey, R., **Momany, M.**, Park, C., Straus, A.H. and H.K. Takahashi. 2007. Sphingolipids of the mycopathogen *Aspergillus fumigatus*: characterization of glycosylinositol phosphorylceramide antigens with *manp*($\alpha 1 \rightarrow 2$)*Ins* and *glcN*($\alpha 1 \rightarrow 2$)*Ins* core motifs. 2007. *Journal of Lipid Research* 48: 1801-24.
- Breakspear, A. and **M. Momany**. 2007. Microarrays in *Aspergillus* species. In *The Aspergilli* (eds. S. Osmani and G. Goldman), pp 469-75, CRC Press, Boca Raton.
- Breakspear, A. and **M. Momany**. 2007. The First Fifty Microarray Studies in Filamentous Fungi. *Microbiology* 153: 7-15.

- Lindsey, R and **M. Momany**. 2006. Septin localization across kingdoms: three themes with variations. *Current Opinion in Microbiology* 9:1-7.
- Ha, Y., Covert, S. and **M. Momany**. 2006. Characterization of FsFKS1, the 1, 3- β -glucan synthase from the caspofungin-resistant fungus *Fusarium solani*. *Eukaryotic Cell* 5: 1036-1042.
- Hill, T.W., Loprete, D.M., **Momany, M.**, Ha, Y., Harsch, L.M., Livesay, J.A., Mirchandani, A., Murdock, J.J., Vaughan, M.J. and Watt, M.B. 2006. Isolation of cell wall mutants in *Aspergillus nidulans* by screening for hypersensitivity to Calcofluor White. *Mycologia* 98:399-409.
- Galagan JE, Calvo SE, Cuomo C, Ma LJ, Wortman JR, Batzoglou S, Lee SI, Basturkmen M, Spevak CC, Clutterbuck J, Kapitonov V, Jurka J, Sczocchio C, Farman M, Butler J, Purcell S, Harris S, Braus GH, Draht O, Busch S, D'Enfert C, Bouchier C, Goldman GH, Bell-Pedersen D, Griffiths-Jones S, Doonan JH, Yu J, Vienken K, Pain A, Freitag M, Selker EU, Archer DB, Penalva MA, Oakley BR, **Momany M**, Tanaka T, Kumagai T, Asai K, Machida M, Nierman WC, Denning DW, Caddick M, Hynes M, Paoletti M, Fischer R, Miller B, Dyer P, Sachs MS, Osmani SA, Birren BW. (50 authors total). 2005. Sequencing of *Aspergillus nidulans* and comparative analysis with *A. fumigatus* and *A. oryzae*. *Nature* 438: 1105-1115.
- Harris, S.D., Read, N.D., Roberson, R.W., Shaw, B., Seiler, S., Plamann, M. and **M. Momany**. 2005. Polarisome meets Spitzenkorper: Microscopy, Genetics, and Genomics Converge. *Eukaryotic Cell* 4: 225-229.
- Momany, M.** 2005. Growth Control and Polarization. 2005. *Medical Mycology* 4:523-525.
- Lin, X. and **M. Momany**. 2004. Identification and complementation of abnormal hyphal branching mutants *ahbA1* and *ahbB1* in *Aspergillus nidulans*. *Fungal Genetics and Biology* 41: 998-1006.
- Momany, M.**, Lindsey, R., Hill, T.W., Richardson, E.A., Momany, C., Pedreira, M., Guest, G.M., Fisher, J.F., Hessler, R.B. and K. A. Roberts. 2004. The *Aspergillus fumigatus* cell wall is organized in domains that are remodeled during polarity establishment. *Microbiology* 150:3261-3268.
- Harris, S.D. and **M. Momany**. 2004. Polarity in filamentous fungi: moving beyond the yeast paradigm. *Fungal Genetics and Biology* 41: 391-400.
- Guest, G. M., Lin, X., **Momany, M.**, 2004. *Aspergillus nidulans* RhoA is involved in polar growth, branching, and cell wall synthesis. *Fungal Genetics and Biology* 41: 13-22.
- Lin, X., Momany, C., **Momany, M.**, 2003. SwoHp, a nucleoside diphosphate kinase, is essential in *Aspergillus nidulans*. *Eukaryotic Cell* 2: 1169-77.
- Lin, X and **M. Momany**. 2003. *swoC* plays a role in polar growth and nuclear distribution in *A. nidulans*. *Genetics* 165: 543-554.
- Bennion, B., Park, C., Fuller, M., Lindsey, R., **Momany, M.**, Jennemann, R., Levery, S. B., 2003. Glycosphingolipids of the model fungus *Aspergillus nidulans*: characterization of GIPCs with oligo- α -mannose-type glycans. *Journal of Lipid Research* 44: 2073-88.
- Momany, M.** 2002. Polarity in filamentous fungi: establishment, maintenance and new axes. *Current Opinion in Microbiology* 5: 580-585.
- Shaw, B.D. and **M. Momany**. 2002. *Aspergillus nidulans* polarity mutant *swoA* is complemented by protein O-mannosyltransferase *pmtA*. *Fungal Genetics and Biology* 37: 263-270.
- Shaw, B.D., Momany, C.A. and **M. Momany**. 2002. *Aspergillus nidulans swoF* is an N-myristoyl transferase. *Eukaryotic Cell* 1: 241-248.
- Westfall, P.J. and **M. Momany**. 2002. The *Aspergillus* septin AspB plays pre- and post-mitotic roles in septum, branch, and conidiophore development. *Molecular Biology of the Cell* 13: 110-118.
- Momany, M.** Richardson, E.A., VanSickle, C., and Jedd, G. 2002. Mapping Woronin body position in *Aspergillus nidulans*. *Mycologia* 94: 259-265.
- Levery, S.B., **Momany, M.**, Lindsey, R., Toledo, M.S., Shayman, J.A., Fuller, M., Brooks, K., Doong, R.L., Straus, A.H., and Takahashi, H.K. 2002. Disruption of the glucosylceramide biosynthetic pathway in *Aspergillus nidulans* and *Aspergillus fumigatus* by inhibitors of UDP-Glc:ceramide glucosyltransferase strongly affects spore germination, cell cycle, and hyphal growth. *FEBS Letters* 525: 59-64.