

BRANDON FINDLAY

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BACKGROUND

Canadian citizen, born in XXXXXXXX.

EDUCATION

University of Alberta, Edmonton, AB AIHS Postdoctoral Fellow with Dr. John Vederas. Project: Synthesis and Mechanism of Action Investigation of the lipopeptides Tridecaptin A, B, and C	May 2013 – Present
University of Manitoba, Winnipeg, MB Ph.D. Organic Chemistry with Dr. Frank Schweizer. Thesis: Design and Synthesis of Cationic Amphiphiles	Jan. 2009 – Apr. 2013
Simon Fraser University, Burnaby, BC B.Sc. (Hon) Molecular Biology and Biochemistry with Dr. Mark Paetzel; Chemistry minor. Thesis: Cloning and Characterization of the Periplasmic Domain of Bacterial Translocase YidC	Sep. 2004 – Dec. 2008

AWARDS

Alberta Innovates Health Solutions PDF	May 2013 – Apr. 2016
Manitoba Health Research Council Graduate Studentship	Jul. 2012 – Apr. 2013
Dean of Graduate Studies Student Achievement Award	Aug. 2011
University of Manitoba Graduate Fellowship	May 2011 – Apr. 2012
Faculty of Science Graduate Scholarship	Sep. 2009 – May 2011
NSERC Undergraduate Scholarship Research Award	Apr. 2008 – Aug. 2008
Simon Fraser Summit Entrance Award	Sep. 2004

PEER REVIEWED PUBLICATIONS

- Guchhait, G., Altieri, A., Gorityala, B., Yang, X., Findlay, B., Zhanel, G., Mookherjee, N., Schweizer, F. (2015) Amphiphilic Tobramycins with Immunomodulatory Responses. *Angew. Chem. Int. Ed.* Accepted pending minor revisions.

10. Li, J., Chaytor, J., **Findlay, B.**, McMullen, L., Smith, D., Vederas, J. (2015) Identification of Didecyldimethylammonium Salts and Salicylic Acid as Antimicrobial Compounds in Commercial Fermented Radish Kimchi. *J. Agric. Food Chem.* DOI: 10.1021/jf5063588.
9. Bai, Y., **Findlay, B.**, Sanchez-Maldonado, A., Schieber, A., Vederas, J., Gänzle, M. (2014) Novel pyranoanthocyanidins and vinylphenol adducts of deoxyanthocyanidins in sorghum sourdough. *J. Agric. Food Chem.* 64:11536-46.
8. Cochrane, S., **Findlay, B.**, Vederas, J., Ratemi, E. (2014) Residues in Octyltridecaptin A1 Analogs Linked to Stable Secondary Structure in the Membrane. *ChemBioChem.* 15:1295-9.
7. **Findlay, B.**, Mookherjee, N., Schweizer F. (2013) Ultrashort Cationic Lipopeptides and Lipopeptoids Selectively Induce Cytokine Production in Macrophages. *PLOS ONE.* 8: e54280.
6. **Findlay, B.**, Szelemej, P., Zhanel, G.G., Schweizer F. (2012) Guanidinylation and Tail Effects in Cationic Antimicrobial Lipopeptoids. *PLOS ONE.* 7: e41141.
5. Bera, S., Dhondikubeer, R., **Findlay, B.**, Zhanel, G.G., Schweizer F. (2012) Synthesis and Antibacterial Activities of Amphiphilic Neomycin B-based Bilipid Conjugates and Fluorinated Neomycin B-based Lipids. *Molecules.* 17: 9129-9141.
4. **Findlay, B.**, Zhanel, G.G., Schweizer F. (2012) Investigating the Hydrophobic Antimicrobial Peptide "Window of Activity" using Cationic Lipopeptides with Hydrocarbon and Fluorocarbon Tails. *Int. J. Antimicrob. Agents.* 40: 36-42.
3. **Findlay, B.**, Zhanel, G.G., Schweizer F. (2012) Neomycin-phenolic conjugates: Polycationic amphiphiles with broad-spectrum antibacterial activity, low hemolytic activity and weak serum protein binding. *Bioorg. Med. Chem. Lett.* 22:1499-1503.
2. Zhanel, G.G., Lawson, C., Zelenitsky, S., **Findlay, B.**, Schweizer, F., Adam, H., Walkty, A., Rubinstein, E., Hoban, D., Lynch, J., Karlowsky, J. (2012) Comparison of the Next Generation Aminoglycoside Plazomicin (ACHN-490) to Gentamicin, Tobramycin, and Amikacin. *Expert Rev. Anti. Infect. Ther.* 10: 459-73.
1. **Findlay, B.**, Zhanel, G.G., Schweizer, F. (2010) Cationic amphiphiles: A new generation of antimicrobials inspired by the natural antimicrobial peptide scaffold. *Antimicrob. Agents Chemother.* 54:4049-4058.

NON PEER REVIEWED PUBLICATIONS

Findlay, B., Johns, M. (2014) The International Chemical Biology Society's Global Mission Crystallizes in Kyoto. *ACS Chem. Biol.* 9: 21-27.

Findlay, B. (2013) Blogroll: Digital discourse. *Nat. Chem.* 5: 551.

ORAL PRESENTATIONS

Findlay, B., Dietrich, D., Tran, K., Huang, Z., Vederas, J. (2014) Cleaving It Softly: Lessons Learned During the Total Synthesis of Crocin. 97th Canadian Chemistry Conference and Exhibition. Vancouver, Canada.

Findlay, B., Vederas, J. (2014) Nothing Rhymes with Orange: Crocins, Apigeninidins and Other Colourful Experiments. Pigeon Lake Symposium. Pigeon Lake, Canada.

Findlay, B., Cochrane, S., Vederas, J. (2014) Sequence Requirements for Tridecaptin A1 Antimicrobial Activity. Volcano Conference in Chemical Biology. Pack Forest, USA.

Findlay, B., Schweizer, F., Zhanel, G.G. (2012) Design, Antimicrobial Activity and Comparison of Cationic Lipopeptides and Lipopeptoids. 95th Canadian Chemistry Conference and Exhibition. Calgary, Canada.

Findlay, B., Schweizer, F., Zhanel, G.G. (2011) Fusion of Known Antibiotics for Synergistic and Emergent Antimicrobial Activity. 94th Canadian Chemistry Conference and Exhibition. Montreal, Canada.

POSTER PRESENTATIONS

Findlay, B., Cochrane, C., Vederas, J.C. (2013) Investigating the Mode of Action and Molecular Target of Tridecaptin A1. 2nd International Chemical Biology Society Annual Conference. Kyoto, Japan.

Findlay, B., Schweizer, F., Zhanel, G.G. (2012) Aminoglycoside-Phenolic Conjugates: Combining Target-Specific Interactions with Antimicrobial Peptide-like Membrane Targeting. Gordon Research Conference: New Antibacterial Discovery and Development. Lucca (Barga), Italy.

LEADERSHIP

Chemtips

May 2012 – Present

Founded a blog dedicated to sharing organic chemistry skills and career advice via brief essays (chemtips.wordpress.com). Over XXX pageviews.

Biochemistry Instructor Search Committee

2011

Full voting member. Helped select an outstanding instructor for the University of Manitoba's biochemistry program.

Faculty of Science Poster Competition

2011

Organized the first ever student-run poster competition within the Faculty of Science. With funding from the Faculties of Science and Graduate Studies, the Department of Chemistry and the

Graduate Students' Association, we provided a relaxed environment for twenty graduate and undergraduate students to present and discuss their research with faculty, peers, and the public at large. My role involved procuring funding, organizing the twelve volunteers, recruiting eleven faculty judges, producing and distributing advertising, and arranging for food and refreshments at the event.

Chemistry Graduate Student Association President

Sep. 2010 – Sep. 2011

Leadership role, coordinating thirty graduate students, with an annual budget of XXX.

STUDENT MENTEES

Bob Loblaw

B.Sc.

XXX 20XX – XXX 20XX

Project title.

REFEREES

Dr. XXX XXX

Job Title

Address

Phone

Email