

October 20, 2015

NAME: Michael C. Lorenz

PRESENT TITLE: Professor, with tenure

ADDRESS: Dept. of Microbiology and Molecular Genetics
The University of Texas Medical School
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BIRTHDATE: May 15, 1970

CITIZENSHIP: United States

UNDERGRADUATE EDUCATION: Rice University, Houston, TX. 1988-1992
B.A., Biochemistry and Cell Biology,
B.A., Economics, May 1992.

GRADUATE EDUCATION: Duke University, Durham, NC. 1992-1997
Ph.D., Genetics, Dec. 1997.

POSTGRADUATE TRAINING: Whitehead Institute for Biomedical Research
Cambridge, MA. 1998-2003.

ACADEMIC APPOINTMENTS: Dept. of Microbiology and Molecular Genetics
The University of Texas Medical School
Assistant Professor, 2003-2010
Associate Professor (tenured), 2010-present

PROFESSIONAL ORGANIZATIONS:

REGIONAL: South Central Medical Mycology Group

NATIONAL: American Society for Microbiology
American Association for the Advancement of
Science
Genetics Society of America

INTERNATIONAL: International Society for Human and Animal
Mycology
Medical Mycology Society of the Americas

HONORS AND AWARDS:

Honors

- American Cancer Society Graduate Fellowship, 1995
- Irvington Institute for Immunological Research Postdoctoral Fellow, 1999-2001
- Merck/MIT Fellow, 2002
- UTHSC Nominee for Searle Scholars Program, 2003
- UTHSC Nominee for Pew Foundation Award, 2004
- UTHSC Nominee for Burroughs Wellcome Scholars program, 2004, 2007, 2008.
- Distinguished Alumnus Lecturer, Duke University Cell and Molecular Biology Program, 2007.
- UTHSC Young Investigator Award, 2008
- UT Medical School Dean's Teaching Excellence Award, 2010
- UT Medical School Dean's Teaching Excellence Award, 2014
- President, Medical Mycology Society of the Americas, 2015-16
- Recipient, University of Texas Regents Outstanding Teaching Award, 2015

Conferences

- Co-organizer, South Central Medical Mycology Meeting (Houston, Texas, 2006).
- Scientific Program Committee member and session chair, 8th ASM Conference on Candida and Candidiasis (Denver, Colorado, 2006).
- Session chair, 2nd FEBS Lecture Course on Human Fungal Pathogens (Nice, France, 2007)
- Scientific Program Committee member, 9th ASM Conference on Candida and Candidiasis (New York City, New York, 2008).
- Session chair, Congress of the International Society for Human and Animal Mycology (Tokyo, Japan, 2009)
- Co-organizer, South Central Medical Mycology Meeting (Houston, Texas, 2009).
- Session chair, 11th ASM Conference on Candida and Candidiasis (San Francisco, CA, 2012)
- Session chair, Congress of the International Society for Human and Animal Mycology (Berlin, Germany, 2012)
- Co-organizer, South Central Medical Mycology Meeting (Houston, Texas, 2013)
- Session chair, 12th ASM Conference on Candida and Candidiasis (New Orleans, LA, 2014)
- Keynote speaker, 49th Annual Scientific Meeting of the German-speaking Mycological Society (Jena, Germany, 2015)
- Session chair, 13th ASM Conference on Candida and Candidiasis (Seattle, WA, 2016)
- Conference Vice-chair, Federation of American Societies of Experimental Biology Conference on Microbial Pathogenesis, (Keystone, CO, 2017)
- Conference Chair, Federation of American Societies of Experimental Biology Conference on Microbial Pathogenesis, (Location TBA, 2019)

EDITORIAL POSITIONS:

- Editor, *Eukaryotic Cell*, 2009-present
 - Associate Editor, mSphere, 2015-present
 - Associate Editor, *Fungal Biology*, 2009-2015t
 - Associate Editor, *PLoS ONE*, 2006-2010
 - Editorial Board member, *Eukaryotic Cell*, 2006-present
 - Editorial Board member, *Infection and Immunity*, effective Jan, 2016
 - Section Editor: *Current Opinion in Microbiology* special issue on Host-microbe interactions (vol. 13, issue 4, Aug., 2010).
 - Ad hoc reviewer for *Science*, *Cell*, *Eukaryotic Cell*, *Current Biology*, *Molecular and Cellular Biology*, *Molecular Biology of the Cell*, *Fungal Genetics & Biology*, *Genetics*, *Microbiology*, *Microbes and Infection*, *Molecular Microbiology*, *Mycologia*, *Current Genetics*, *Trends in Microbiology*, *Antimicrobial Agents and Chemotherapy*, *Mycoses*, *PLoS Pathogens*, *PLoS Biology*, *Proceedings of the National Academy of Sciences*, *FEMS Yeast Research*, *FEMS Microbiology Letters*, *Journal of Applied Microbiology*, *Infection and Immunity*, *Future Microbiology*, *Nature Chemical Biology*, *PLoS ONE*, *Journal of Antimicrobial Chemotherapy*, *Virulence*, *Yeast*, *Cell Cycle*, *PLoS Genetics*, *mBio*, *Proceedings of the Royal Society*, *Fungal Biology*, *Cell Host & Microbe*, *PLoS Neglected Tropical Diseases*, *Nature Chemical Biology*, *Journal of Cell Biology*, *Frontiers in Microbiology*, *Nature Communications*
- Over 250 manuscripts reviewed for these journals.**

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

- Permanent member of NIH PTHE study section (2015-2021)
- Ad hoc member for NIH AIP study section (2004)
- Ad hoc member for NIH DDR study section (2007, 2008, 2010, 2011, 2012)
- Ad hoc member for NIH PTHE study section (2008, 2009, 2010, 2011, 2013, 2014)
Vice-Chair (2014)
- Ad hoc member for NIH ZRG study section (2009, 2013, 2015)
- Ad hoc member for NIH F01-IDM study section (2013)
- Ad hoc member for NIH ZRG IDM-10 STTR/SBIR study section (2014)
- Ad hoc member, Dept. of Defense CDMRP grant review panel (2012)
- Outside reviewer for Science Foundation Ireland
- Outside reviewer for British Biotechnology and Science Research Council
- Outside reviewer for the United States-Israel Binational Science Foundation
- Outside reviewer for the Deutsche Forschungsgemeinschaft
- Outside reviewer for the Wellcome Trust
- Outside reviewer for the Czech Science Foundation
- Outside reviewer for the British Medical Research Council
- Outside reviewer for the National Science and Engineering Research Council of Canada
- Outside reviewer for the Netherlands Organization for Scientific Research

SERVICE ON DEPARTMENTAL COMMITTEES:

- Microbiology and Molecular Genetics Seminar Coordinator, 2004-2005
- MMG Graduate Admissions Committee, 2005-present
- MMG Medical Microbiology Curriculum Committee, 2006-present
- MMG Faculty Search Committee, 2006-2008
- MMG Faculty Search Committee Chair, 2008-2009
- MMG Program Recruitment Subcommittee, 2011-2014
Chair, 2011-2013
- MMG Academic Standards Subcommittee, 2013-2015
- MMG Faculty Search Committee Chair, 2015

SERVICE ON MEDICAL SCHOOL COMMITTEES:

- Medical School Research Committee, 2010-present
- Medical School Faculty Compensation Committee, 2010-2013

SERVICE ON HEALTH SCIENCE CENTER COMMITTEES

- GSBS Admissions Committee, 2007-2010
- GSBS Search Committee for Assistant Dean for Admissions, 2009
- GSBS Academic Standards Committee, 2012-2015
Chair, 2014-2015
- GSBS Curriculum Task Force, 2013-2014

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE :

Aaron Carman, 2004-2008 (Ph.D., 12/2008)
Presently: Scientific Program Officer, Alzheimer's Drug Discovery Foundation

Melissa Ramirez, 2004-2009 (Ph.D., 12/2009)
Presently: Staff Scientist, Laboratory Services Division, FBI

Arely Gonzales, 2009-2012 (M.S., 10/2012)
Presently: Research Associate, M.D. Anderson

Claudia Jimenez-Lopez, 2009-2014 (Ph.D., 4/2014)
Presently: Scientist, Gene-by-Gene, Inc.

Heather Danhof, 2011-present

Carrie Graham, 2012-present (co-mentor)

Elisa Vesely, 2014-present

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

Huaijin Zhou, 2005-2010 (Ph.D., Univ. of Kansas Medical Center)
Presently: Scientist, Glycosbio, Inc.

Slavena Vylkova, 2007-2014 (Ph.D., Univ. of Buffalo)
*Presently: Assistant Professor (Research), Dept. of Microbiology and
Molecular Genetics, University of Texas Medical School at Houston*

John Collette, 2008-2014 (Ph.D., Univ. of North Carolina)
Presently: Research Scientist, Baylor College of Medicine

Pedro Miramón-Martínez, 2014-present (Ph.D., Freidrich Schiller University, Jena,
Germany)

SPONSORSHIP OF SUMMER UNDERGRADUATES:

Wendy Callejas (Univ. of Houston-Downtown), 2005

Further Education: M.D., University of Texas Medical Branch

Megan Bourland (Southwestern Univ.), 2008

Further Education: M.S., University of Houston-Clear Lake

Joseph Whitt (Texas State Univ.), 2010

Further Education: In Medical School, Texas Tech Health Science Center

Kelsey Devine (Rice Univ.), 2011

Further Education: None

Amy Slater (Univ. of North Texas), 2012

Further Education: Ph.D. candidate, University of Texas Graduate School of

Biomedical Sciences at Houston

Shelby Priest (Rice Univ.), 2013, 2014

Further Education: Ph.D. candidate, Duke University

James Randall (Univ. of Texas), 2013

Further Education: In Medical School, University of Texas Medical Branch

SPONSORSHIP OF SUMMER MEDICAL STUDENTS:

Rachelle Jones, 2010

Omar Gonzalez, 2013

Michael Dachowski, 2015

SPONSORSHIP OF GRADUATE STUDENT TUTORIALS:

Melissa Ramirez, 2004

A.J. Pettway, 2004

Toni Greene, 2005

Amy Monier, 2005

Jacob Verghese, 2006

Jennifer Juarez, 2007

Jennifer Abrams, 2008

Kimberly Szymanski, 2008

Taylor Schoberle, 2008

Arely Gonzalez, 2008

Zalman Vaksman, 2009

Claudia Jimenez-Lopez, 2009

Veronica Wells, 2010

Heather Danhof, 2011

Carrie Graham, 2012

Elisa Vesely, 2013

Minseon Kim, 2015

Ayesha Khan, 2016

MEMBER OF ADVISORY/SUPERVISORY COMMITTEES:

Student	Advisory/Supervisory*	Degree
Trott, Amy	S	Ph.D. (2006)
Rall, Jason	S	Ph.D. (2007)
Spikes, Sara	A	M.S. (2007)
Schoberle, Taylor	A/S	M.S. (2008)
Carman, Aaron (Chair)	S	Ph.D. (2008)
Meaux, Stacie	S	Ph.D. (2008)
Gibney, Patrick	A/S	Ph.D. (2009)
Ramirez, Melissa (Chair)	A/S	Ph.D. (2009)
Tapia, Hugo	A/S	Ph.D. (2010)
Clark, Amanda	A/S	Withdrew
Tsanova, Borislava	A/S	Ph.D. (2013)
Vergese, Jacob	A/S	Ph.D. (2012)
Schoberle, Taylor	S	Ph.D. (2013)
Wang, Yanyu	A/S	Ph.D. (2012)
Abrams, Jennifer	A/S	Ph.D. (2014)
Busiek, Kimberly	A/S	Ph.D. (2014)
Gonzalez, Arely (Chair)	A	M.S. (2012)
Claudia Jimenez-Lopez (Chair)	A/S	Ph.D. (2014)
Kimberly Cope	A/S	M.S. (2014)
Sara Gorjestani	S	Ph.D. (2013)
Heather Danhof (Chair)	A/S	Ph.D.
Jay Gordon	A/S	Ph.D.
Junchen Diao	A/S	Ph.D. (2015)
Veronica Garcia	A/S	Ph.D.
Alexandra Marshall	S	Ph.D.
Carrie Graham (co-Chair)	S	Ph.D.
Jaeil Han	S	Ph.D.
Sara Pepper	S	Ph.D.
Jillian Losh	S	Ph.D.
Elisa Vesely (Chair)	S	Ph.D.

* Note: In 2012 GSBS ceased making a distinction between students' Advisory and Supervisory committees.

EXTERNAL MEMBER OF Ph.D. THESIS COMMITTEES (other universities)

Patricia Carlisle (UTHSC-San Antonio)	Ph.D. (2011)
Delma Thompson (UTHSC-San Antonio)	Ph.D. (2012)
Diana Morales-Gamba (Dartmouth Medical School)	Ph.D. (2011)
Mohammad Albataineh (UTHSC-San Antonio)	Ph.D. (2015)
Geethanjali Vipulanandan (UTHSC-San Antonio)	Ph.D. (in progress)

MEMBER OF Ph.D. CANDIDACY EXAM COMMITTEES:

Student	Date
Shaner, Lance	Apr. 2004
Mandell, Edward	Oct. 2004 (Baylor College of Medicine)
Gibney, Patrick	Nov. 2005
Tapia, Hugo (Chair)	Dec. 2006
Wang, Yanyu (Chair)	Dec. 2008
Tsanova, Borislava (Chair)	Dec. 2008
Verghese, Jacob	Dec. 2008
Jennifer Abrams (Chair)	Dec. 2009
Ana Alejandra Klauer	Dec. 2009
Kimberly Busiek (Chair)	Aug. 2010
Veronica Garcia (Chair)	Nov. 2012
Malik Raynor	Oct. 2012
Jay Gordon (Chair)	Dec. 2012
Junchen Diao (Chair)	Dec. 2012
Kimberly Cope (Chair)	Jan. 2013
Alexandra Marshall (Chair)	Oct. 2013
Emily Steinmetz	Oct. 2013
Camila Montealegre	Oct. 2013
Jaeil Han (Chair)	Apr. 2014
Sara Peffer	Oct. 2014
Jillian Losh	Oct. 2014
Changsoo Kwak	Jul. 2015

TEACHING RESPONSIBILITIES:

Graduate School for Biomedical Sciences

Foundations of Biomedical Research

- 2014: Week Leader, Extracellular and Intracellular Signaling
3 lectures
4 breakout sessions
Coordinator for 8 additional lectures
- 2015: Week leader, Extracellular and Intracellular Signaling
5 lectures
6 breakout sessions
Coordinator for 7 additional lectures

Microbiology and Molecular Genetics I

- 2003: 1 lecture (Fungal Biology), 1.5 contact hours.
- 2004: 3 lectures (Introduction to MMG, Fungal Biology, Animal Genetics), 4.5 contact hours.
- 2005-2009: 4 lectures (Introduction to MMG I and II, Fungal Biology, Animal Genetics), 6 contact hours.

Microbial Molecular Genetics (replacement course for MMG I)

2010-2013: 5 lectures (Introduction, Yeast Genomics I and II, Genetic Analysis of Pheromone Response, Animal Genetics), 5 contact hours.

Course director: 2013

Microbiology and Molecular Genetics II

2004: 2 lectures (Fungal Development, Pathogen-Host Cell Interactions), 3 contact hours.

2005: 4 lectures (Pheromone Response, Fungal Development, Novel Virulence Factors, Pathogen-Host Cell Interactions), 6 contact hours.

2006-2010: 5 lectures (Pheromone Response, Fungal Development, Novel Virulence Factors, Pathogen-Host Cell Interactions, Parasitology), 7.5 contact hours.

Microbial Physiology (replacement course for MMG II)

2010-2014: 3 lectures (Fungal Mating, Fungal Development, Virulence Factors), 3 contact hours.

Microbial Genetics and Physiology (replacement for Microbial Physiology)

2015-present: 2 lectures

2 breakout sessions, 5 contact hours

Molecular Basis of Microbial Pathogenesis

2005-2006: 5 class periods, 5 contact hours

2007-present: 8 class periods, 8 contact hours

Course director: 2007, 2010

Current Topics in Microbiology and Molecular Genetics (replacement for Molecular Basis of Microbial Pathogenesis)

2015 (course director): 6 class periods, 6 contact hours

Experimental Genetics

2015-present: 2 class periods, 3 contact hours

Ethical Considerations in Biomedical Research

2009-2010: 1 lecture, 0.5 contact hours

14 group discussion periods, 14 contact hours

Microbiology and Molecular Genetics Journal Club

2003-present: Weekly participant

Medical School

Medical Microbiology (Lecture course)

2006-present: 5 lectures (Parasitology) and 1 clinical correlate, 6 contact hours

Medical Microbiology (Laboratory Course)

2004: Secondary faculty, 2 labs, 2 contact hours

2005: Lab Leader, 13 labs, 13 contact hours

2006-present: Roving instructor, 2 labs, 2 contact hours

School of Dentistry

Dental Microbiology

2005-2008: 1 lecture (Dental Mycology), 2 contact hours

2009-2012: 3 lectures (Dental Mycology), 3 contact hours

Postdoctoral Certificate Program

Career Development for Post-doctoral fellows

2007-2010: 1 lecture (How not to give a bad talk), 1 contact hour

Responsible Conduct of Research

2008-present: 1 lecture (Peer Review), 1 contact hour.

Total classroom teaching responsibilities at present

Graduate: 22 classes, 25 contact hours

Medical: 5 lectures, 2 labs, 1 clinical correlate, 8 contact hours

Postdoctoral: 1 lectures, 1 contact hour

OTHER SERVICE TO THE UNIVERSITY

Interviews of Medical School Applicants

2007-2008	9 applicants
2008-2009	20 applicants
2009-2010	13 applicants
2010-2011	18 applicants
2011-2012	21 applicants
2012-2013	22 applicants
2013-2014	24 applicants
2014-2015	32 applicants
2015-2016	8 applicants (to date)
Total	167 applicants

Interviews of Graduate School Applicants

2009	2 applicants
2010	4 applicants
2011	3 applicants
2012	8 applicants
2013	7 applicants
2014	3 applicants
2015	4 applicants
Total	31 applicants

CURRENT GRANT SUPPORT

1 R01 AI075091-06 6/1/2013-5/31/2018
Role: PI 4 calendar months
NIH/NIAID \$1,879,795
Extracellular pH modulation by *Candida albicans* in vitro and in vivo

1 R21 AI105651-01 4/1/2013-3/31/2015
Role: PI 2 calendar months
NIH/NIAID \$418,000
Virulence factor identification by comparative transcriptomics in *Candida* species
No cost extension until 3/31/2016

PENDING GRANT SUPPORT

1 R21 AI124675-01 4/1/2016-3/31/2018
Role: PI 2.4 calendar months
NIH/NIAID \$423,500
ATO function in fungal pathogenesis

PAST GRANT SUPPORT

Prior to joining the University of Texas

M.C. Lorenz (PI) 1/99-12/01
Irvington Institute for Immunological Research
“Genomic Analysis of the Interaction Between Macrophages and the Fungal Pathogen
Candida albicans”

The major goal of this project was to explore the molecular interactions between the fungal pathogen *Candida albicans* and mammalian macrophages on a genome-wide scale so as to better understand how this organism causes disease in humans

M.C. Lorenz (PI) 1/02-12/02
Merck/MIT
Genomic analysis of virulence in *Candida albicans*.

The goal of this project was to complete construction of the *C. albicans* microarray and to assay transcription profiles of *C. albicans* cells exposed to components of the mammalian immune system.

2 R01 DE11381-04 (T. F. Patterson, PI) 9/00-9/02
Role: Co-PI (PI: Patterson, T.F.)
NIH/NIDCR
Expression analysis of *Candida albicans*

The goal of this project was to construct a DNA microarray for *Candida albicans* and to develop informatics tools to complement the array development.

Role: Co-Investigator

M.C. Lorenz (PI), Gregory Petsko and Dagmar Ringe 6/1/2006-5/31/2007
National Academies-Keck Futures Initiative \$25,000
Identification of isocitrate lyase inhibitors as broad-spectrum antimicrobial drugs.
This project aims to identify small molecule inhibitors of the virulence factor isocitrate lyase using in silico computer modeling followed by in vitro validation and characterization.

As an Assistant Professor

2 R01 AI046142-07A2 6/1/2006-5/31/2009
Role: Co-PI (PI: Sturtevant, J.) 0.84 calendar months
NIH/NIAID \$85,324

Signaling complexes and the 14-3-3 proteins in *Candida*
Our role in this project was to investigate the functions of the *Candida* homolog of the conserved 14-3-3 protein family in host-pathogen interactions, specifically by monitoring the effect of 14-3-3 mutations on resistance to macrophage phagocytosis via genomic analysis.

1 R21 AI67873-01A2 10/1/2007-9/30/2009
Role: Co-PI (PI, Agarwal, A.) 1.2 calendar months
NIH/NIAID \$81,197

Molecular targets of novel antifungal compounds
This project is intended to characterize the mechanism of action of novel candidate antifungal compounds.
No-cost extension until 2/2010

1 R21 AI071134-01A2 6/1/2008-5/31/2010
Role: PI 1.5 calendar months
NIH/NIAID \$371,250

Understanding immunomodulation in *Candida albicans*
This project aims to purify and characterize a small molecule we have discovered that inhibits nitric oxide production from immune cells.
No-cost extension until 5/2011

1 R01 AI075091-01 6/1/2007-5/31/2012
Role: PI 4 calendar months
NIH/NIAID \$1,841,230

Roles of acetate metabolism in the virulence of *Candida albicans*
No cost extension through 5/2013
Renewed with a 4% score, February 2013

PUBLICATIONS

A. Conference Abstracts

(* indicates author was selected for an oral presentation)

1. **Lorenz, M.C.** and Heitman, J.: Rapamycin and cell cycle control. Yeast Genetics and Molecular Biology Meeting, Seattle, Washington, 1994.
2. **Lorenz, M.C.** and Heitman, J.: NPR1 is required for pseudohyphal growth. Yeast Cell Biology Meeting, Cold Spring Harbor, New York, 1995.
3. **Lorenz***, **M.C.** and Heitman, J.: Ammonia permeases are receptors for pseudohyphal growth. Yeast Genetics and Molecular Biology Meeting, Madison, Wisconsin, 1996.
4. **Lorenz***, **M.C.** and Heitman, J.: MEP2, a high affinity ammonium permease, regulates pseudohyphal growth. Mid-Atlantic Yeast Meeting, Pittsburgh, Pennsylvania, 1997.
5. **Lorenz, M.C.** and Heitman, J.: Nitrogen regulation of dimorphism in *Saccharomyces cerevisiae*. Yeast Genetics and Human Disease Meeting, Baltimore, Maryland, 1997.
6. **Lorenz***, **M.C.** and Heitman, J.: Characterization of alcohol-induced haploid filamentous growth. Yeast Genetics and Molecular Biology Meeting, College Park, Maryland, 1998.
7. **Lorenz***, **M.C.** and Fink, G.R.: Gene expression following phagocytosis in *S. cerevisiae* and *C. albicans*. Yeast Genetics and Molecular Biology Meeting, Seattle, Washington, 2000.

As an Assistant Professor

8. **Lorenz, M.C.** and Fink, G.R.: The transcriptional response of *Candida albicans* to phagocytosis. EURESCO Conference on Human Fungal Pathogens, Giens, France, 2003.
9. Bender, J.A., Fink, G.R. and **Lorenz, M.C.**: Remodeling metabolism as a key aspect of host-pathogen interactions. ASM Conference on Integrating Metabolism and Genomics, Montreal, Canada, 2004.
10. **Lorenz, M.C.**, Bender, J.A., and Fink, G.R.: Host-fungal interactions: How *Candida albicans* responds to phagocytosis. 104th ASM General Meeting, New Orleans, Louisiana, 2004.
11. Ramirez, M.A., Bender, J.A., Fink, G.R., and **Lorenz***, **M.C.**: The role of alternative carbon metabolism in *Candida*-phagocyte interactions. 23rd Fungal Genetics Conference. Asilomar, California, 2005.

12. Ramirez, M.A. and **Lorenz*, M.C.**: Roles and regulation of fatty acid metabolism in pathogenicity of *C. albicans*. FEBS Lecture Course on Human Fungal Pathogens, Nice, France, 2005.
13. Ramírez, M.A. and **Lorenz, M.C.**: Alternative Carbon Metabolism and Virulence in *Candida albicans*. 8th ASM Conference on Candida and Candidiasis, Denver, Colorado, 2006.
14. Carman, A.J. and **Lorenz, M.C.**: ATO proteins and acetate metabolism in *Candida albicans*. 8th ASM Conference on Candida and Candidiasis, Denver, Colorado, 2006.
15. Ramírez, M.A.* and **Lorenz, M.C.**: Roles of alternative carbon metabolism in virulence. 2006 South Central Medical Mycology Annual Meeting, Houston, TX. 2006.
16. Carman, A.J.* and **Lorenz, M.C.**: Acetate metabolism, virulence and pH in *Candida albicans*. 2006 South Central Medical Mycology Annual Meeting, Houston, TX. 2006.
17. Ramírez, M.A, Zhou, H., Carman, A.J., and **Lorenz, M.C.** Alternative carbon metabolism is required for virulence in *Candida albicans* and is regulated by a unique mechanism. FEBS Lecture Course on Human Fungal Pathogens, Nice, France. 2007.
18. Carman, A.J. and **Lorenz, M.C.**: Acetate homeostasis and weak acid stress in yeast. Yeast Cell Biology Meeting, Cold Spring Harbor, NY. 2007.
19. Ramírez, M.A.* and **Lorenz, M.C.**: Alternate carbon metabolism: virulence and regulation in *C. albicans*. South Central Medical Mycology Meeting, San Antonio, TX. 2007.
20. Carman, A.J.* and **Lorenz, M.C.**: Acetate homeostasis and weak acid stress in yeast. South Central Medical Mycology Meeting, San Antonio, TX. 2007.
21. Xu, T., Jacob, M., Feng, Q., **Lorenz, M.**, Walker, L., Clark, A., and Agarwal, A.: Mechanism of action studies on the antifungal compound sampangine in *Candida albicans*. 9th ASM Conference on Candida and Candidiasis. Jersey City, NJ. 2008.
22. Zhou, H. and **Lorenz, M.C.**: Carnitine acetyltransferases are required for growth on non-fermentable carbon sources but not for pathogenesis in *Candida albicans*. 9th ASM Conference on Candida and Candidiasis. Jersey City, NJ. 2008.
23. Carman, A. and **Lorenz, M.C.**: Disruptions in acetate metabolism impair

- growth on poor carbon sources and attenuate virulence in *Candida albicans*. 9th ASM Conference on Candida and Candidiasis. Jersey City, NJ. 2008.
24. Lynn, J.J., Chiranand, W., Zhou, H., McLeod, I., Yates III, J.R., **Lorenz, M.C.**, and Gustin, M.C.: CTA4 mediated induction of nitrosative stress response in *Candida albicans*. 9th ASM Conference on Candida and Candidiasis. Jersey City, NJ. 2008.
 25. Ramírez, M.A.* and **Lorenz, M.C.**: Alternative carbon metabolism: virulence and regulation in *C. albicans*. 9th ASM Conference on Candida and Candidiasis. Jersey City, NJ. 2008.
 26. Ramírez, M.A. and **Lorenz, M.C.**: Alternative carbon metabolism: virulence and regulation in *C. albicans*. Gordon Conference on Cellular and Molecular Fungal Biology. Holderness, NH. 2008.
 27. Vylkova, S.* and **Lorenz, M.C.**: pH neutralization of glucose-limiting environments in *Candida albicans*. South Central Medical Mycology annual meeting, New Orleans, LA, 2008.
 28. **Lorenz, M.C.** and Vylkova, S: Regulation of extracellular pH by *Candida albicans*. Asilomar Fungal Genetics Meeting, Pacific Grove, CA. 2009.
 29. **Lorenz, M.C.** and Ramírez, M.A.: Transcriptional control of carbon metabolism in *Candida albicans*. FEBS Lecture Course on Human Fungal Pathogens. Nice, France. 2009.
 30. Vylkova, S.*, Carman, A.J., and **Lorenz, M.C.**: Environmental pH modulation by *Candida albicans* under glucose-limiting conditions. 10th ASM Conference on *Candida* and Candidiasis. Miami, FL. 2010.
 31. Gonzalez, A.Y., Ramírez, M.A., and **Lorenz, M.C.** Transcriptional control of carbon metabolism in *Candida albicans*. 10th ASM Conference on *Candida* and Candidiasis. Miami, FL. 2010.
 32. Collette, J.R., Jimenez-Lopez, C., and **Lorenz, M.C.** Roles and regulation of the arginine biosynthesis following phagocytosis. 10th ASM Conference on *Candida* and Candidiasis. Miami, FL. 2010.

As an Associate Professor

33. Vylkova, S.* and **Lorenz M.C.** The fungal pathogen *Candida albicans* autoinduces hyphal morphogenesis by raising extracellular pH. South Central Medical Mycology Meeting, San Antonio, TX, Nov. 2010.
34. Jimenez-Lopez, C.* and **Lorenz, M.C.** Regulation of arginine biosynthetic genes in *Candida albicans*. South Central Medical Mycology Meeting, San

Antonio, TX, Nov. 2010.

35. Jimenez-Lopez, C., Collette, J.R., and **Lorenz, M.C.** Roles and regulation of arginine biosynthesis in vitro and in vivo. FEBS Lecture Course on Human Fungal Pathogens, Nice, France. 2011.
36. Vylkova, S., Carman, A.J., and **Lorenz M.C.** Regulation of environmental pH by *Candida albicans*. FEBS Lecture Course on Human Fungal Pathogens, Nice, France. 2011.
37. Vylkova, S.*, Carman, A.J. and **Lorenz, M.C.** Regulation of environmental pH by *Candida albicans*. Molecular Pathogenesis Meeting, Cold Spring Harbor, NY, 2011.
38. Vylkova, S., Danhof, H., and **Lorenz, M.C.*** *Candida albicans* alters extracellular pH under host-relevant conditions of carbon starvation. FinSysB Conference on Candida Infection Biology, Acquafredda, Italy. 2011.
39. Collette, J.R.*, Jimenez-Lopez, C., and **Lorenz, M.C.** The function of the arginine biosynthetic pathway of *C. albicans* following macrophage phagocytosis. South Central Medical Mycology Meeting, Albuquerque, NM. 2011.
30. Vylkova, S.* and B. *Candida albicans* Stp2p, a transcription factor regulating amino acid permeases, is required for virulence and alkalinization of the phagolysosome. 11th ASM Conference on *Candida* and Candidiasis. San Francisco, CA. 2012.
41. Jiménez-López, C., Collette, J.R., and **Lorenz, M.C.** Regulation of the *Candida albicans* arginine biosynthetic pathway. 11th ASM Conference on *Candida* and Candidiasis. San Francisco, CA. 2012.
42. Lynn, J., Dornell, J.L., **Lorenz, M.C.**, and Gustin, M.C. Anticipation of nitrosative stress in *C. albicans*. 11th ASM Conference on *Candida* and Candidiasis. San Francisco, CA. 2012.
43. Jiménez-López, C.*, Collette, J.R., Wheeler, R.T., and **Lorenz, M.C.** *Candida albicans* induces arginine biosynthetic genes in response to host-derived reactive oxygen species. South Central Medical Mycology Meeting, New Orleans, LA. 2012.
44. Vylkova, S., Danhof, H., and **Lorenz, M.C.*** Modulation of extracellular pH by *Candida albicans* alters the host-pathogen interaction. FEBS Lecture Course on Human Fungal Pathogens, Nice, France. 2013.

45. Vylkova, S., and **Lorenz, M.C.*** Modulation of extracellular pH by *Candida albicans* alters the host-pathogen interaction. FASEB Snowmass Microbial Pathogenesis meeting, Snowmass, CO, 2013.
46. Jiménez-López, C. and **Lorenz, M.C.** *Candida albicans* induces arginine biosynthetic genes in response to host-derived reactive oxygen species. Microbial Pathogenesis and Host Response. Cold Spring Harbor, NY. 2013.
47. Vylkova S.* and **Lorenz, M.C.** Modulation of extracellular pH by *Candida albicans* alters the host-pathogen interaction. XI Fungal Biology Conference. Karlsruhe, Germany, 2013.
48. Vylkova, S. and **Lorenz, M.C.** *Candida albicans* Stp2p, a transcription factor regulating amino acid permeases, is required for virulence and alkalinization of the phagosome. South Central Medical Mycology Meeting. Houston, TX. 2013.
49. Danhof, H.A. and **Lorenz, M.C.** Ato5p, a putative ammonia/acetate transporter, modulates interactions with macrophages by inhibiting alkalinization. 12th ASM Conference on *Candida* and Candidiasis. New Orleans, LA. 2014.
50. Priest, S.J. and **Lorenz, M.C.** Phenotypic analysis of CUG clade species. 12th ASM Conference on *Candida* and Candidiasis. New Orleans, LA. 2014.
51. Graham, C.E., Cruz, M.R., Garsin, D.A. and **Lorenz, M.C.** *Enterococcus faecalis* disrupts biofilm formation and hyphal morphogenesis in *Candida albicans*. 12th ASM Conference on *Candida* and Candidiasis. New Orleans, LA. 2014.
52. Danhof, H.A. and **Lorenz, M.C.** Ato proteins, a family of putative ammonia/acetate transporters, promote the *C. albicans* alkalinization response. Texas Branch ASM Meeting *and* South Central Medical Mycology Meeting, Houston and San Antonio, TX, 2014.
53. Vesely, E.M., Vylkova, S, Danhof, H.A. and **Lorenz, M.C.** Identification of *Candida albicans* genes involved in extracellular pH modulation in glucose-poor conditions. Texas Branch ASM Meeting *and* South Central Medical Mycology Meeting, Houston and San Antonio, TX, 2014.
54. Priest, S.J. and **Lorenz, M.C.** Phenotypic analysis of CUG clade species. Texas Branch ASM Meeting *and* South Central Medical Mycology Meeting, Houston and San Antonio, TX, 2014.

55. Gonzalez-Garay, M., Priest, S.R., Collette, J.R. and **Lorenz, M.C.*** Comparative transcriptomic analysis of eight CUG-clade species in co-culture with macrophages identifies host-specific adaptations. FEBS Lecture Course on Human Fungal Pathogens, Nice, France. 2015.
56. Vylkova S.* , Danhof H.A., Ford A., Vesely E.M and **Lorenz, M.C.** Robust environmental alkalization by *Candida albicans* during growth on carboxylic acids. FEBS Lecture Course on Human Fungal Pathogens, Nice, France. 2015.
57. Danhof, H.A.* and **Lorenz, M.C.** The environmental alkalization response of *Candida albicans* is promoted by Ato proteins. Microbial Pathogenesis and Host Response, Cold Spring Harbor, NY, 2015.
58. Graham, C.E., Garsin, D.A., and **Lorenz, M.C.** *E. faecalis* produces a bacteriocin that inhibits hyphal morphogenesis and biofilm formation of *C. albicans*. Microbial Pathogenesis and Host Response, Cold Spring Harbor, NY, 2015.
59. Miramón, P. and Lorenz, M.C. The SPS system mediates pH manipulation and utilization of amino acids in *Candida albicans*. Microbial Pathogenesis and Host Response, Cold Spring Harbor, NY, 2015.

B. Refereed Original Articles in Journals

1. **Lorenz, M.C.**, R.S. Muir, E. Lim, J. McElver, S.C. Weber, and J. Heitman (1995) Gene disruption with PCR products in *Saccharomyces cerevisiae*. *Gene* **158**: 113-117.
2. **Lorenz, M.C.** and Heitman, J.: TOR mutations confer rapamycin resistance by preventing interaction with FKBP12-rapamycin. *J. Biol. Chem.* **270**: 27531-27537. 1995.
3. **Lorenz, M.C.** and Heitman, J.: Yeast pseudohyphal growth is regulated by GPA2, a G protein a homolog. *EMBO J.* **16**: 7008-7018. 1997. PMID: PMC1170304.
4. **Lorenz, M.C.** and Heitman, J.: Pseudohyphal differentiation in *Saccharomyces cerevisia* is regulated by the MEP2 ammonium permease. *EMBO J.* **17**: 1236-1247. 1998. PMID: PMC1170472.
5. **Lorenz, M.C.** and Heitman, J.: Regulators of pseudohyphal differentiation in *Saccharomyces cerevisiae* identified through multicopy suppressor analysis in ammonium permease mutant strains. *Genetics* **150**: 1443-1457. 1998. PMID: PMC1460428.

6. Cardenas, M.E., Cutler, N.S., **Lorenz, M.C.**, DiComo, C.J., and Heitman, J.: The TOR signaling cascade regulates gene expression in response in nutrients. *Genes Dev.* **13**: 3271-3279. 1999. PMID: PMC317202.
7. **Lorenz, M.C.**, Cutler, N.S., and Heitman, J.: Characterization of alcohol-induced filamentous growth in *Saccharomyces cerevisiae*. *Mol. Biol. Cell* **11**: 183-199. 2000. PMID: PMC14767.
8. **Lorenz, M.C.**, Pan, X., Harashima, T., Cardenas, M.E., Xue, Y., Hisch, J.P., and Heitman, J.: The G protein-coupled receptor GPR1 is a nutrient sensor that regulates pseudohyphal differentiation in *Saccharomyces cerevisiae*. *Genetics* **154**: 609-622. 2000. PMID: PMC1460933.
9. Young, L.Y., **Lorenz, M.C.**, and J. Heitman, J.: A STE12 homolog is required for mating but dispensible for filamentation in *Candida lusitanae*. *Genetics* **155**: 17-29. 2000. PMID: PMC14610.
10. **Lorenz, M.C.** and Fink, G.R.: The glyoxylate cycle is required for fungal virulence. *Nature* **412**: 83-86. 2001.

As an assistant professor

11. **Lorenz, M.C.***, Bender, J. and Fink, G.R. (2004) The transcriptional response of *Candida albicans* upon internalization by macrophages. *Eukaryot. Cell* **3**: 1076-1087. PMID: PMC522606. (* Corresponding author)
12. Braun, B.R., van het Hoog, M., d'Enfert, C., Martchenko, M., Dungan, J., Kuo, A., Inglis, D.O., Uhl, M.A., Hogues, H., Berriman, M., **Lorenz, M.C.**, Levitin, A., Oberholzer, U., Bachewich, C., Harcus, D., Marcil, A., Dignard, D., Iouk, T., Zito, R., Frangeul, L., Tekaia, F., Rutherford, K., Wang, E., Munro, C.A., Bates, S., Gow, N.A., Hoyer, L.L., Köhler, G., Morschhäuser, J., Newport, G., Znaidi, S., Raymond, M., Turcotte, B., Sherlock, G., Costanzo, M., Ihmels, J., Berman, J., Sanglard, D., Agabian, N., Mitchell, A.P., Johnson, A.D., Whiteway, M., and Nantel, A. (2005) A Human-curated annotation of the *Candida albicans* genome. *PLOS Genet.* **1**:37-56. PMID: PMC1183520
13. Ramírez, M.A. and **M.C. Lorenz** (2007) Mutations in alternative carbon utilization pathways in *Candida albicans* attenuate virulence and confer pleiotropic phenotypes. *Eukaryot. Cell* **6**:280-290. PMID: PMC1797957.
14. Zhou, H. and **M.C. Lorenz** (2008) Carnitine acetyltransferases are required for growth on nonfermentable carbon sources but not for pathogenesis in *Candida albicans*. *Microbiol.* **154**:500-509.

15. Chiranand, W., McLeod, I., Zhou, H., Vega, L.A., Myers, H., Yates, III, J.R., **Lorenz, M.C.**, and Gustin, M.C. (2008) The CTA4 transcription factor mediates induction of nitrosative stress responses in *Candida albicans*. *Eukaryot. Cell* **7**: 268-278. PMID: PMC2238162.
16. Agarwal, A.K., Xu, T., Jacob, M.R., Feng, Q., **Lorenz, M.C.**, Walker, L.A., and Clark, A.M. (2008) The role of heme in the antifungal activity of the plant alkaloid sampangine. *Eukaryot. Cell* **7**: 387-400. PMID: PMC2238161.
17. Carman, A.J., S. Vylkova, and **M.C. Lorenz** (2008) The role of acetyl-CoA synthesis and breakdown in alternative carbon metabolism in *Candida albicans*. *Eukaryot. Cell* **7**:1733-1741. PMID: PMC2568070.
18. Butler, G., M.D. Rasmussen, M.F. Lin, M.A.S. Santos, S. Sakthikumar, C.A. Munro, E. Rheinbay, M. Grabherr, A. Forche, J.L. Reedy, I. Agrafioti, M.B. Arnaud, S. Bates, A.J.P. Brown, S. Brunke, M.C. Costanzo, D.A. Fitzpatrick, P.W.J. de Groot, D. Harris, L.L. Hoyer, B. Hube, F.M. Klis, C. Kodira, N. Lennard, M.E. Logue, R. Martin, A.M. Neiman, E. Nikolaou, M.A. Quail, J. Quinn, M.C. Santos, F.F. Schmitzberger, G. Sherlock, P. Shah, K. Silverstein, M.S. Skrzypek, D. Soll, R. Staggs, I. Stansfield, M.P.H. Stumpf, P.E. Sudbery, S. Thyagarajan, Q. Zeng, J. Berman, M. Berriman, J. Heitman, N.A.R. Gow, **M.C. Lorenz**, B.W. Birren, M.Kellis, and C.A. Cuomo (2009) Evolution of pathogenicity and sexual reproduction revealed by comparing eight *Candida* genomes. *Nature* **459**:657-662. PMID: PMC2834264.
19. Hua, X., X. Yuan, B.M. Mitchell, **M.C. Lorenz**, D.M. O'Day, and K.R. Wilhelmus (2009) Morphogenic and genetic differences between *Candida albicans* strains are associated with keratomycosis virulence. *Molec. Vis.* **15**:1476-1484. PMID: PMC2718853.

As an Associate Professor

20. Ramírez, M.A. and **M.C. Lorenz** (2009) The transcription factor homolog CTF1 regulates β -oxidation in *Candida albicans*. *Eukaryot. Cell* **8**:1604-1614. PMID: PMC2756860.
21. Palanisamy, S.K., M.A. Ramírez, **M.C. Lorenz**, and S.A. Lee (2010) *Candida albicans* PEP12 is required for biofilm integrity and in vivo virulence. *Eukaryot. Cell* **9**:266-277. PMID: PMC2823007.
22. Vylkova, S., Carman, A.J., Danhof, H.A., Collette, J.R., Zhou, H., and **Lorenz, M.C.** (2011) The fungal pathogen *Candida albicans* autoinduces hyphal morphogenesis by raising extracellular pH. *mBio* **2**: doi:10.1128/mBio.00055-11. PMID: PMC3101780.

23. Cottier F., Raymond, M., Kurzai, O., Bolstad, M., Leewattanapasuk, W., Jiménez-López, C., **Lorenz, M.C.**, Sanglard, D., Váchová, L., Pavelka, N., Palkova, Z., and Muhlschlegel, F.A. (2012) The bZIP transcription factor Rca1p is a central regulator of a novel CO₂ sensing pathway in yeast. *PLoS Pathog.* **8**:e1002485. PMID: 22253597.
24. Xu, T., Tripathi, S., Feng, Q., **Lorenz, M.C.**, Wright, M., Jacob, M., Li, X.-C., Clark, A., and Agarwal, A. (2012) A Potent Plant-Derived Antifungal Acetylenic Acid Mediates its Activity by Interfering with Fatty Acid Homeostasis. *Antimicrob. Agent Chemother.* **56**:2894. PMID: 22430960.
25. Cruz, M.R., Graham, C.E., Gagliano, B.C., **Lorenz, M.C.*** and Garsin, D.A.* (2013) *Enterococcus faecalis* inhibits hyphal morphogenesis and virulence of *Candida albicans*. *Infect. Immun.* **81**:189-200. PMID: 23115035 (*co-corresponding authors)
26. Jiménez-López, C., Collette, J.R., Brothers, K.M., Shepardson, K.M., Cramer, R.A., Wheeler, R.T., and **Lorenz, M.C.** (2013) *Candida albicans* induces arginine biosynthetic genes in response to host-derived reactive oxygen species. *Eukaryot. Cell* **12**:91-100. PMID: 23143683.
27. Jain, C., Pastor, K., Gonzalez, A.Y., **Lorenz, M.C.**, and Prusty Rao, R. (2013) The role of *Candida albicans* AP-1 protein against host derived ROS in *in-vivo* models of infection. *Virulence.* **4**:67-76. PMID: 23314569.
28. Marshall, A.N., Montealegre, M.C., Jiménez-López, C., **Lorenz, M.C.**, and van Hoof, A. (2013) Alternative splicing and subfunctionalization generates functional diversity in fungal proteomes. *PLoS Genet.* **9**:e1003376. PMID: 23516382.
29. Vylkova, S. and **Lorenz, M.C.** (2014) Modulation of phagosomal pH by *Candida albicans* promotes hyphal morphogenesis and requires Stp2p, a regulator of amino acid transport. *PLoS Pathog.* **10**:e1003995. PMID: 24626429.
30. Collette, J.R., Zhou, H. and **Lorenz, M.C.** (2014) *Candida albicans* suppresses nitric oxide generation from macrophages via a secreted molecule. *PLoS ONE* **9**:e96203. PMID: 2475569.

As a Professor

31. Priest, S.P. and **Lorenz, M.C.** (2015). Characterization of virulence-related phenotypes in *Candida* species of the CUG clade. *Eukaryot. Cell.* **14**:931-40. PMID: 26150417.

32. Danhof, H.A. and **Lorenz, M.C.** (2015) The *Candida albicans* ATO gene family promotes neutralization of the macrophage phagolysosome. *Infect. Immun.* **83**:4416-26. PMID: 26351284.
34. Miramón, P. and **Lorenz, M.C.** (2015) The SPS amino acid sensor mediates nutrient acquisition and immune evasion in *Candida albicans*. *Cell. Microbiol.*, submitted.
33. Vylkova, S.*, Danhof, H.A.*, Vesely, E., Ford, A.S., and **Lorenz, M.C.** (2015) Robust environmental alkalization by *Candida albicans* during growth on dicarboxylic acids. In preparation. (* equal contributors)

C. Invited articles (reviews, etc.)

1. Cardeñas, M.E., **Lorenz, M.C.**, Hemenway, C. and Heitman, J. (1994) Yeast as model T cells. *Pers. in Drug Disc. and Design.* 2: 103-126.
2. **Lorenz, M.C.** (2002) Genomic approaches to fungal pathogenicity. *Curr. Opin. Microbiol.* **5**: 372-378.
3. **Lorenz, M.C.** and G.R. Fink (2002) Life and death in a macrophage: The role of the glyoxylate cycle in virulence. *Eukaryotic Cell* **1**: 657-662.
4. **Lorenz, M.C.** (2006) A marriage of old and new: chemostats and microarrays identify a new system for ammonium toxicity. *PLoS Biol.* **4**:1905-1907. (A primer to accompany an article by Hess, et al., in the same issue)
5. **Lorenz, M.C.** (2010) Host-Microbe Interactions: fungi (Editorial Overview) *Curr. Opin. Microbiol.* **13**:1-3.
6. Collette, J.R. and **Lorenz, M.C.** (2011) Mechanisms of immune evasion by fungal pathogens. *Curr. Opin. Micro.***14**:668.
7. **Lorenz, M.C.** (2013) Carbon catabolite control in *Candida*: new wrinkles in metabolism. *mBio* **4**:e00034-13. PMID: 23386434
8. Garsin, D.A. and **Lorenz, M.C.** (2013) *Candida albicans* and *Enterococcus faecalis* in the gut: Synergy in commensalism? *Gut Microbes* **13**:409-15. PMID: 23941906
9. Jiménez-López, C. and **Lorenz, M.C.** (2013) Fungal immune evasion in a model host-pathogen interaction: *Candida albicans* versus macrophages. *PLoS Pathog.* **9**:e1003741. PMID: 24278014.

D. Book Chapters

1. **Lorenz, M.C.** (2006) Studying fungal virulence using genomics. In: Molecular Principles of Fungal Pathogenesis. ed., Mitchell, A.P. and Heitman, J. ASM Press: Washington, D.C.
2. Lodge, J.K. and **M.C. Lorenz** (2006) Genetic and proteomic analysis of fungal virulence. In: Molecular Principles of Fungal Pathogenesis. ed., Heitman, J, Filler, S., Edwards, J, and Mitchell, A.P. ASM Press: Washington, D.C.
3. **Lorenz, M.C.** (2007) A Post-genomic perspective on the interaction of *Candida* with host cells. In: *Candida: Comparative and Functional Genomics*. ed., d'Enfert, C. and Hube, B. Horizon Scientific Press: London.
4. Vylkova, S. and **Lorenz, M.C.** (2011) "Encounters with mammalian cells: survival strategies of *Candida* species" In: *Candida and Candidiasis*. Ed., Clancey, N. and Calderone, R. ASM Press: Washington, D.C.
5. Butler, G., **Lorenz, M.C.**, and Gow, N.A.R. (2012) "Evolution and genomics of the pathogenic *Candida* species complex" In: *Evolution of Virulence in Eukaryotic Microbes*. Ed., Heitman, J., Sibley, D., and Howlett, B. Wiley-Blackwell: Hoboken, NJ.

F. Other Professional Communications (Invited Presentations/Seminars)

1. **Lorenz, M.C.***, Alspaugh, J.A., and Heitman, J.: Regulation of fungal development by G protein-coupled signaling pathways in multiple fungi. International Mycology Conference, Jerusalem, Israel, 1998.
2. **Lorenz, M.C.*** and Fink, G.R.: Microarray analysis of macrophage-yeast interactions. EURESCO Conference on Human Fungal Pathogens, Seefeld Austria, 2001.
3. **Lorenz, M.C.*** and Fink, G.R.: Microarray analysis of macrophage-*Candida* interactions. 6th ASM Conference on *Candida* and Candidiasis, Tampa, Florida, 2002.
4. **Lorenz, M.C.*** and Fink, G.R.: Genomic analysis of macrophage-*Candida* interactions. 102nd ASM General Meeting, Salt Lake City, Utah, 2002.
5. **Lorenz, M.C.***, Bender, J.A., and Fink, G.R.: A genomic view of fungal-phagocyte interactions. International Society for Human and Animal Mycology Meeting, San Antonio, Texas, 2003.

As an Assistant Professor

6. **Lorenz, M.C.***, and Fink, G.R.: The genomics of host-pathogen interactions: How *Candida albicans* survives phagocytosis. 153rd Meeting of the Society for General Microbiology, Manchester, United Kingdom, 2003.
7. **Lorenz, M.C.***: Monitoring *Candida albicans* during phagocytosis. South Central Medical Mycology Meeting, Oklahoma City, Oklahoma, 2003.
8. Seminar: Department of Biochemistry, University of Texas Medical School at Houston, November, 2003.
9. Bender, J.A., Fink, G.R., and **Lorenz, M.C.***: How *C. albicans* survives in vivo: A genomic view. 7th ASM Conference on *Candida* and Candidiasis. Austin, Texas, 2004.
10. **Lorenz, M.C.***: *Candida* and candidiasis: How do you study one disease that is really many? South Central Medical Mycology Meeting, New Orleans, Louisiana, 2004.
11. Seminar: University of Mississippi National Center for Natural Products Research, Oxford, Mississippi, June, 2004.
12. Bender, J.A., Fink, G.R., and **Lorenz, M.C.***: How *C. albicans* survives in vivo: A genomic view. ASM Texas Branch Meeting, Houston, Texas, 2004.
13. Seminar: Department of Microbiology, University of Tennessee, Knoxville, Feb. 2005.
14. Seminar: University of Texas Medical School at Houston Research Retreat, Mar. 2005.
15. Seminar: Department of Microbiology, Parasitology and Immunology, Louisiana State University Health Science Center, New Orleans, Louisiana, Mar. 2005.
16. **Lorenz, M.C.***, Ramirez, M.A., and Carman, A.J.: Roles and regulation of acetate metabolism during *Candida*-phagocyte interactions. 8th ASM Conference on *Candida* and candidiasis. Denver, Colorado, March 2006.
17. Seminar: Department of Biology, University of Houston-Downtown, Houston, Texas, April 2006.
18. Seminar: Department of Pathology, University of Texas Health Science Center, Houston, Texas, April 2006.

19. Seminar: Department of Biosciences, University of Kent, Canterbury, United Kingdom, June, 2006.
20. **Lorenz, M.C.***: Roles and regulation of carbon metabolism in the pathogenesis in *Candida albicans*. 16th Congress of the International Society for Human and Animal Mycology. Paris, France, June 2006.
21. Seminar: Department of Microbiology and Immunology, The University of Texas Health Science Center, San Antonio, Texas, Nov. 2006.
22. Session Chair: Host-Pathogen interactions: the pathogen attacks... 2nd FEBS lecture course on human fungal pathogens, Nice, France, May 2007.
23. Seminar: Cell and Molecular Biology Program, Duke University, Oct. 2007 (Distinguished Alumnus Lecturer).
24. Seminar: Department of Microbiology and Immunology, Tufts University School of Medicine, Mar. 2008.
25. Seminar: Department of Biology and Biotechnology, Worcester Polytechnic Institute, Mar. 2008.
26. Seminar: Department of Microbiology, University of Minnesota, Mar. 2009.
27. **Lorenz, M.C.*** and Ramírez, M.A. Carbon metabolism and virulence in *Candida albicans*. Congress of the International Society for Human and Animal Mycology. Tokyo, Japan. 2009.
28. **Lorenz, M.C.*** and Ramírez, M.A. Adaptation of carbon metabolic regulatory networks in the pathogenesis of *Candida albicans*. Molecular Pathogenesis and Host Response Meeting, Cold Spring Harbor, New York, Sept. 2009.

As an Associate Professor

29. **Lorenz, M.C.***, R. Grimball and R.J. Jones. A heterologous mouse model of *Candida* gut commensalism. First International Conference on Model Hosts, Heraklion, Crete, Greece, Sept. 2010.
30. Seminar speaker and external department reviewer, Aberdeen Fungal Group. University of Aberdeen, Scotland, Jan 2011.
31. Seminar: Department of Biology, Texas Southern University, Feb., 2010.
32. Seminar: Department of Microbiology and Immunology, Dartmouth Medical School, Nov. 2011.
33. Seminar: Department of Molecular Genetics and Microbiology, Univ. of New

Mexico Health Sciences Center, Nov. 2011.

34. Seminar: Department of Immunology and Infectious Disease, Montana State University, Feb. 2012.
35. Session chair and speaker: Extracellular alkalinization resulting from amino acid catabolism in *Candida albicans* alters the host-pathogen interaction. 18th Congress of the International Society for Human and Animal Mycology. Berlin, Germany. 2012.
36. Seminar: Department of Microbiology and Immunology, University of Medicine and Dentistry of New Jersey, Sept. 2012.
37. Seminar: Department of Biology, Baylor University, Sept. 2013.
38. Graham, C.E., Garsin, D.A., and **Lorenz, M.C.** Interactions between *Candida* and *Enterococcus* in the host: friend *and* foe? IDWeek (Annual meeting of the Infectious Diseases Society of the Americas). San Francisco, CA. Oct. 2013.
39. Vylkova, S.* Danhof, H.A., Slater, A., Vesely, E., and **Lorenz, M.C.** Multiple routes to environmental alkalinization via catabolism of amino acids or dicarboxylic acids contribute to survival and virulence of *C. albicans*. 12th ASM Conference on *Candida* and Candidiasis, New Orleans, LA, Mar. 2014. (Invited talk given by Dr. Vylkova in a session chaired by M.C.L.)
40. Seminar: Department of Microbiology, Texas A&M University, Apr. 2014.
41. Seminar: Department of Molecular Genetics and Microbiology, Stony Brook University, Oct. 2014.
42. Gonzalez-Garay, M., Collette, J.R., and **Lorenz, M.C.** Comparative and Functional Genomics of Fungal Pathogens, Universidad Internacional de Andalucia, Baeza, Spain, Nov. 2015.
43. **Lorenz, M.C.** Interkingdom Interactions Mediated by a Bacterial Peptide Modulate Hyphal Growth, Biofilm Formation, and Virulence in *Candida albicans*. American Society for Microbiology General Meeting. New Orleans, LA, June 2015. (Invited Speaker)
44. **Lorenz, M.C.** Modulation of macrophage function by *Candida albicans*. Symposium of the Center for Fungal Pathogenesis, Seoul National University, Seoul Korea, June 2015. (Invited Speaker)
45. **Lorenz, M.C.** Modulation of the host phagolysosome by the fungal pathogen *Candida albicans*. FASEB Scientific Research Conference on Microbial

Pathogenesis. Keystone, CO, July 2015. (Invited Speaker)

As a Professor

46. **Lorenz, M.C.** 49th Annual Scientific Conference of the German Speaking Mycological Society. Jena, Germany, Sept. 2015. (Keynote Speaker)
47. **Lorenz, M.C.** 13th ASM Conference on *Candida* and Candidiasis. Seattle, WA, April 2016. (Session chair and invited speaker)