
BIOGRAPHICAL SKETCH

NAME Lin, Xiaorong	POSITION TITLE Professor		
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Dalian University of Technology, China	B.S.	1992-1996	Chemical Engineering
Dalian Institute of Chemical Physics, China	M.S.	1996-1999	Chemical Engineering
University of Georgia	Ph.D.	1999-2003	Molecular Genetics and Fungal Biology
Duke University Medical Center	Postdoc	2003-2007	Medical Mycology

A. Positions and Honors

Positions and Employment

2020 – present	Graduate Coordinator - Recruitment, Department of Microbiology, University of Georgia, GA
2017 – present	Professor, Department of Microbiology, University of Georgia, GA
2017 – present	Gene E. Michaels Endowed Distinguished Professor of Medical Mycology, University of Georgia
2017 – present	Adjunct faculty, Departments of Plant Biology/ Infectious Diseases, University of Georgia
2014 – 2017	Adjunct faculty, Department of Microbiology and Immunology, Texas A&M Health Science Center, TX
2013 – 2017	Associate Professor, Department of Biology, Texas A&M University, TX (Promoted to Professor in 2017)
2008 – 2013	Assistant Professor, Department of Biology, Texas A&M University, TX
2003 – 2007	Postdoctoral Research Associate, Department of Molecular Genetics and Microbiology, Duke University Medical Center, NC
1999 – 2003	Graduate Research Assistant, Department of Plant Biology, University of Georgia, GA
1996 – 1999	Graduate Research Assistant, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China

Honorary Memberships

2019 – present	American Academy of Microbiology (AAM) Fellow
2018 – present	American Association for the Advancement of Science (AAAS) Fellow

Professional Membership

2015 – present	Member, Medical Mycological Society of the Americas (MMSA)
2013 – present	Member, American Association for the Advancement of Science (AAAS)
2012 – present	Member, Genetics Society of America (GSA)
2004 – present	Member, American Society of Microbiology (ASM)
2002 – 2003	President, the Mycology Discussion Group, University of Georgia
2001 – 2003	Member, Mycological Society of America (MSA)

Service

Course director and conference organizer

2023 – present	Member, The Steering Committee of The International Fungal Biology Conference (IFBC)
2019 – 2026	Elected Member, Fungal Genetics Policy Steering Committee
2019	Chair, 30 th Fungal Genetics Conference, Genetics Society of America (GSA)
2016 – 2021	Scientific Advisory Board, FEBS Advanced Lecture Course: Human Fungal Pathogens (HFP2017, HFP2019, HFP2021)
2017	Session chair, “Human Fungal Pathogens” at 29 th Fungal Genetics Conference
2015 – 2019	Director, Molecular Mycology summer course, Marine Biological Laboratory, MA

Editorial Service

2020 – 2022 Section editor, *PLoS Pathogens*
2017 – 2026 Associate editor, *mBio*
2017 – present Associate editor, *PLoS Genetics*
2015 – 2019 Associate editor, *Fungal Genetics and Biology*
2014 – 2020 Associate editor, *PLoS Pathogens*
2013 – 2021 Faculty member, *Faculty of 1000*
2009 – 2015 Member of the editorial board, *Eukaryotic Cell*
2009 – 2013 Associated faculty member, *Faculty of 1000*
2008 – 2010 Academic editor, *PLoS ONE*

Manuscript Reviewer Service

2004 – Present Ad hoc reviewer: *Nature*, *PNAS*, *PLoS Biology*, *PLoS Genetics*, *PLoS Pathogens*, *PLoS Neglected Tropical Diseases*, *PLoS ONE*, *Cellular Microbiology*, *Nature Review Microbiology*, *Microbiology and Molecular Biology Reviews*, *Genetics*, *mBio*, *Infection and Immunity*, *Applied and Environmental Microbiology*, *Eukaryotic Cell*, *Antimicrobial Agents and Chemotherapy*, *Fungal Genetics and Biology*, *BMC Microbiology*, *Microbiology*, *Fungal Biology Reviews*, *Journal of Medical Microbiology*, *FEMS Microbiology Letters*, *Future Microbiology*, *Medical Mycology*, *Mycoses*, *HIV therapy*, *BMC Genomics*, *Environmental Microbiology*, *Molecular Microbiology*, *JoVE*, *mSphere*, *Scientific Reports*, *Journal of Microbiology*, *Journal of Fungi*, *Molecular Plant Pathology*, *Cell Reports*, *Frontiers in Microbiology*, *Cellular Microbiology*, *Computational and Structural Biotechnology Journal*, *Trends in Microbiology*, *Nature Communications*, *Communications Biology*, *Frontiers in Immunology*

Grant Reviewer Service

2023 Ad hoc member, CDC special emphasis panel (SEP)
2022 Committee, T32 applications for UGA CTEGD training program (Center of Tropical and Emerging Global Diseases)
2020 Chair, NASA Space Biology, ROSBio 2020 Flight and Ground Review
2018 Ad hoc member, Austrian Science Fund (FWF)
2016 – 2022 Panel member, NIH AOIC/HCAC study section: HIV Coinfections and HIV Associated Cancers, formerly known as the study section (AIDS Associated Infections and Cancer)
2015 Ad hoc member, Polish-U.S. Fulbright Awards, NIH AOIC study section
2014 Ad hoc member, NIH F13 Infectious Diseases and Microbiology Fellowship Review Panel, NIH IHD study section, the San Antonio Life Sciences Institute (SALSI) Innovation Challenge grant program
2013 Ad hoc member, NIH PTHE study section, NIH AOIC study section
2012 Ad hoc member, ZRG1 IDM S study section

Teaching Experience

2022 – present Instructor, MIBO8150 (Fungal Biology Journal Club/ spring & fall), University of Georgia, GA
2020 Instructor, MIBO8610 (Microbial Diversity/ fall), University of Georgia, GA
2019 – present Instructor, MIBO4700/6700 (Medical Mycology/ spring), University of Georgia, GA
2015 – 2019 Director, Molecular Mycology (MOMY) summer course, Marine Biological Laboratory, MA
2013, 2014, 2021 Faculty, Molecular Mycology (MOMY) summer course, Marine Biological Laboratory, MA
2010 – 2017 Instructor, BIOL351 (Fundamentals of Microbiology/ fall), Texas A&M University, TX
2010 – 2017 Co-Instructor, BIOL681 (Eukaryotic Microbiology/ spring & fall), Texas A&M University, TX
2009 – 2017 Instructor, BIOL437 (Molecular and Medical Mycology/ spring), Texas A&M University, TX
2009 Instructor, BIOL481 (Departmental Colloquium), Texas A&M University, TX
2008 Guest lecturer, BESC489 (Molds and Mushrooms), Texas A&M University, TX
2004 Teaching Assistant, Molecular Mycology, Marine Biological Laboratory, MA
2000 – 2001 Graduate teaching assistant, BTNY1210 (Introduction to Plant Biology), University of Georgia, GA

Honors and Awards

2022	Nominated for faculty Creative Research Award by the Franklin College of Arts and Sciences, University of Georgia
2019 – present	Elected fellow, American Academy of Microbiology (AAM)
2018 – present	Elected fellow, American Association for the Advancement of Science (AAAS)
2017 – present	Gene E. Michaels Endowed Distinguished Professor of Medical Mycology, University of Georgia
2014, 2016	Nominee of the 2015 Edith and Peter O'Donnell Science Awards (the Academy of Medicine, Engineering & Science of Texas)
2013– 2019	The Burroughs Wellcome Fund (BWF) Investigator in Pathogenesis of Infectious Disease
2012	Nominee of “40 under Forty”, the University of Georgia Alumni Association
2011	Teaching Excellence Award (SRATE), Texas A&M University
2009	<i>Eukaryotic Cell</i> Outstanding Young Investigator Award, American Society of Microbiology
2009	Teaching Excellence Award (SLATE), Texas A&M University
2009	ICAAC Young Investigator Award, American Society of Microbiology
2005 - 2007	NIH Postdoctoral Fellowship, Tri-Institutional Molecular Mycology and Pathogenesis Training Program (Tri-I MMPTP)
2003	Francis A. Uecker Student Mentor Award, Mycological Society of America
2002 – 2003	Graduate School Fellowship, University of Georgia
2001, 2003	Plant Biology Department Palfrey Award, University of Georgia
2002	Best Speaker Award at Plant Biology Graduate Student Symposium, University of Georgia
1999 – 2000	Graduate School Fellowship, University of Georgia
1997 – 1998	Elite Graduate Student Scholarship, Chinese Academy of Sciences, China
1996	Graduate with Distinction, Department of Education, Liaoning Province, China
1992 – 1996	Academic Excellence Scholarship (first class), Dalian University of Technology, China

B. Peer-reviewed Publications (* corresponding author, # co-first author).

Published Articles and Articles in Press

92. Chen L, Tian X, Zhang L, Wang W, Hu P, Ma Z, Li Y, Li S, Shen Z, Fan X, Ye L, Ke W, Wu Y, Shui G, Xiao M, He G, Yang Y, Bai F, Liao G, Chen M, **Lin X**, Li C, Wang L*. (2023, in press) Host glucose induces cryptococcal tolerance of fungicidal drugs during fungal meningitis. ***Nature Microbiology***
91. Alanazi AH, Chastain DB, Rudraraju M, Parvathagiri V, Shan S, **Lin X**, Henao-Martínez AF, Franco-Paredes C, Narayanan SP, and Somanath PR. (2023) A multi-arm, parallel, preclinical study investigating the potential benefits of acetazolamide, candesartan, and triciribine in combination with fluconazole for the treatment of cryptococcal meningoencephalitis. ***European Journal of Pharmacology*** DOI: 10.1016/j.ejphar.2023.176177
90. Ristow L, Jezewski A, Chadwick BJ, Stamnes MA, **Lin X**, Krysan DJ. (2023) The fungal pathogen *Cryptococcus neoformans* adapts to the host environment through TOR-mediated remodeling of phospholipid asymmetry. ***Nature Communications*** 18;14(1):6587.doi: 10.1038/s41467-023-42318-y PMID: PMC10584969
89. Choudhury QJ, Ambati S, Link CD, **Lin X**, Lewis ZA, Meagher RB*. (2023) Dectin-3-targeted antifungal liposomes efficiently bind and kill diverse fungal pathogens. ***Molecular Microbiology*** DOI: 10.1111/mmi.15174
88. Alder-Rangel A... **Lin X**, Rangel D. (2023) The IV International Symposium on Fungal Stress and the XIII International Fungal Biology Conference. ***Fungal Biology*** 127(7-8):1157-1179 DOI: 10.1016/j.funbio.2023.04.006
87. Pham T#, Li Y#, Watford W, and **Lin X***. (2023) Vaccination with a *ZNF2^{oe}* strain provides long-lasting protection against cryptococcosis and is effective in immunocompromised hosts. ***Infection and Immunity*** 91(7):e0019823. doi: 10.1128/iai.00198-23 PMID: PMC10353382
86. Meagher R*, Lewis Z, Ambati S, and **Lin X***. (2023) DectiSomes: C-Type Lectin Receptor-Targeted Liposomes as Pan-Antifungal Drugs. ***Advanced Drug Delivery Reviews*** 196:114776 (page 1-20) <https://doi.org/10.1016/j.addr.2023.114776> PMID: PMC10133202

85. Chadwick BJ, Ross BE, **Lin X***. (2023) Molecular dissection of Crz1 and its dynamic subcellular localization in *Cryptococcus neoformans*. Special Issue: Women in Mycology. **Journal of Fungi** 9(252):1-12 <https://doi.org/10.3390/jof9020252> PMID: PMC9963361
84. Del Poeta M*, Wormley F*, **Lin X***. (2023) Host populations, challenges, and commercialization of cryptococcal vaccines. **PLoS Pathogens** 19(2): e1011115. doi: 10.1371/journal.ppat.1011115 PMID: PMC9910758
83. Chadwick BJ, Pham T, Xie X, Ristow LC, Krysan D, and **Lin X***. (2022). The RAM signaling pathway links morphology, thermotolerance, and CO₂ tolerance in the global fungal pathogen *Cryptococcus neoformans*. **eLife** 11:e82563 (1-22). DOI: <https://doi.org/10.7554/eLife.82563> PMID: PMC9708076
82. Alanazi AH, Adil MS, **Lin X**, Chastain DB, Henao-Martínez AF, Franco-Paredes C, and Somanath PR*. (2022) Elevated Intracranial Pressure in Cryptococcal Meningoencephalitis: Examining Old, New, and Promising Drug Therapies. **Pathogens** 11(7), 783; doi.org/10.3390/pathogens11070783 PMID: PMC9321092
81. Breuer MR, Dasgupta A, Vasselli JG, **Lin X**, Shaw BD, Sachs MS*. (2022) The antidepressant sertraline induces the formation of supersized lipid droplets in the human pathogen *Cryptococcus neoformans*. **Journal of Fungi** 8(6):642. doi: 10.3390/jof8060642. PMID: PMC9224953
80. Li Y, Pham T, Xie X, and **Lin X***. (2022) Identification and characterization of an intergenic “safe haven” region in human fungal pathogen *Cryptococcus gattii*. **Journal of Fungi** 8(2):178. doi: 10.3390/jof8020178. PMID: PMC8874978
79. Lin J#, Pham T#, Hipsher K, Glueck N, Fan Y, and **Lin X***. (2022) Immunoprotection against cryptococcosis offered by Znf2 depends on capsule and the hyphal morphology. **mBio** 13(1), e02785-21. PMID: PMC8749420
78. Ambati S*, Pham T, Lewis Z, **Lin X**, and Meagher R. (2021) DC-SIGN targets amphotericin B-loaded liposomes to diverse pathogenic fungi. **Fungal Biology and Biotechnology** 8(1), 22 doi: 10.1186/s40694-021-00126-3. PMID: PMC8709943
77. Strycker BD*, Han Z, Bahari A, Pham T, **Lin X**, Shaw BD, Sokolov AV, and Scully M. Raman (2021) Characterization of fungal DHN and DOPA melanin biosynthesis pathways. **Journal of Fungi** 7(10), 841 doi: 10.3390/jof7100841 PMID: PMC8540899
76. Ambati S*, Pham T, Lewis Z, **Lin X**, and Meagher R. (2021) DectiSomes: Glycan targeting of liposomal drugs improves the treatment of disseminated candidiasis. **Antimicrobial Agents and Chemotherapy** doi: 10.1128/AAC.01467-21. PMID: PMC8765427
75. Meagher R, Lewis Z, Ambati S, and **Lin X***. (2021) Aiming for a bull’s eye: targeting antifungals to fungi with dectin-decorated liposomes. **PLoS Pathogens** 17(7):e1009699 PMID: PMC8297870
74. Zhao Y* and **Lin X***. (2021) A PAS protein directs metabolic reprogramming during cryptococcal adaptation to hypoxia. **mBio** 12(2):e03602-20. doi: 10.1128/mBio.03602-20. PMID: PMC8092316
73. Ambati S, Ellis E, Pham T, Lewis Z, **Lin X***, and Meagher R*. (2021) Antifungal-liposomes directed by Dectin-2 offer a promising therapeutic option for pulmonary aspergillosis. **mBio** DOI: 10.1128/mBio.00030-21. PMID: PMC8545082
72. Zhao Y* and **Lin X***. (2021) *Cryptococcus neoformans*: sex, morphogenesis, and virulence. **Infection, Genetics and Evolution** DOI: 10.1016/j.meegid.2021.104731 PMID: PMC8092418
71. Bahn Y, Sun S, Heitman J, and **Lin X***. (2020) *Cryptococcus neoformans* species complex. **Microbiology** 166(9):797-799. PMID: PMC7717486
70. Chadwick BJ and **Lin X***. (2020) On the history and applications of congenic strains in *Cryptococcus* research. **Pathogens** 9 (9), 750. PMID: PMC7560043
69. Fan Y and **Lin X***. (2020) An intergenic “safe haven” region in *Cryptococcus neoformans* serotype D genomes. **Fungal Genetics and Biology** 103464. PMID: PMC7726056
68. Matha AR and **Lin X***. (2020) Current perspectives on uniparental mitochondrial inheritance in *Cryptococcus neoformans*. **Pathogens** 9 (9), 743. PMID: PMC7559238

67. Lin J[#], Fan Y[#], and Lin X^{*}. (2020) Transformation of *Cryptococcus neoformans* by electroporation using a transient CRISPR-Cas9 expression (TRACE) system **Fungal Genetics and Biology** DOI: 10.1016/j.fgb.2020.103364. PMID: PMC7153975
66. Pham T, Xie X, and Lin X^{*}. (2020) An intergenic “safe-haven” region in *Aspergillus fumigatus*. **Medical Mycology** DOI: 10.1093/mmy/myaa009.
65. Zhao Y, Wang Y, Upadhyay S, Xue C^{*}, and Lin X^{*}. (2020) Activation of meiotic genes mediates ploidy reduction during cryptococcal infection. **Current Biology** 30, 1-10 <https://doi.org/10.1016/j.cub.2020.01.081> PMID: PMC7228024
64. Lin J, Zhao Y, Ferraro AR, Yang E, Lewis ZA, and Lin X^{*}. (2019) Transcription factor Znf2 coordinates with the chromatin remodeling SWI/SNF complex to regulate cryptococcal cellular differentiation. **Communications Biology** 2:412 DOI: 10.1038/s42003-019-0665-2. PMID: PMC6856107
63. Ambati S, Ellis E, Lin J, Lin X, Lewis Z, and Meagher R. (2019) Dectin-2-targeted antifungal liposomes exhibit enhanced efficacy. **mSphere** 4:e00715-19. DOI: 10.1128/mSphere.00715-19. PMID: PMC6821932
62. Sun S[#], Lin X[#], Coelho M, and Heitman J^{*}. (2019) Mating-System Evolution: all roads lead to selfing. **Current Biology** 29(15):R743-R746. doi: 10.1016/j.cub.2019.06.073. PMID: PMC7033744
61. Krysan D^{*}, Zhai B, Beattie S, Misel K, Wellington M, and Lin X^{*}. (2019) Host carbon dioxide concentration is an independent stress for *Cryptococcus neoformans* that affects virulence and antifungal susceptibility. **mBio** 10(4). pii: e01410-19 PMID: PMC6606813
(Recommended by *Faculty of 1000*)
60. Zhao Y[#], Lin J[#], Fan Y[#] and Lin X^{*}. (2019) Life Cycle of *Cryptococcus neoformans*. **Annual Review of Microbiology** 73. DOI: 10.1146/annurev-micro-020518-120210
59. Ambati S, Ferraro A, Kang S, Lin J, Lin X, Momany M, Lewis Z, and Meagher R. (2019) Dectin-1-targeted antifungal liposomes exhibit enhanced efficacy. **mSphere** 13;4(1). pii: e00025-19. PMID: PMC6374590
58. Zhao Y, Upadhyay S, and Lin X^{*}. (2018) A PAS domain protein Pas3 interacts with the chromatin modifier Bre1 in regulating cryptococcal morphogenesis. **mBio** 9(6). pii: e02135-18. PMID: PMC6234864.
57. Tian X, He G, Hu P, Chen L, Tao C, Cui YL, Shen L, Ke W, Xu H, Zhao Y, Xu Q, Bai FY, Wu B, Yang E, Lin X, and Wang L. (2018) *Cryptococcus neoformans* sexual reproduction is controlled by a quorum sensing peptide. **Nature Microbiology** 3(6):698-707, DOI: 10.1038/s41564-018-0160-4
(Recommended by *Faculty of 1000*)
56. Meng Y, Fan Y, Liao W^{*}, and Lin X^{*}. (2018) Plant homeodomain (PHD) genes play important roles in cryptococcal yeast-hypha transition. **Applied and Environmental Microbiology** 84(9). pii: e01732-17 PMID: PMC5930315
55. Fan Y and Lin X^{*}. (2018) Multiple Applications of a Transient CRISPR-Cas9 Coupled with Electroporation (TRACE) System in the *Cryptococcus neoformans* Species Complex. **Genetics** 208(4):1357-1372 PMID: PMC5887135
(Recommended by *Faculty of 1000*)
54. Xu X[#], Lin J[#], Zhao Y, Kirkman E, Yee-Seul So, Bahn Y, and Lin X^{*}. (2017) Glucosamine stimulates pheromone-independent dimorphic transition in *Cryptococcus neoformans* by promoting Crz1 nuclear translocation. **PLoS Genetics** 13(9):e1006982. PMID: PMC5595294
53. Gyawali R, Zhao Y, Lin J, Fan Y, Xu X, Upadhyay S, and Lin X^{*}. (2017) Pheromone Independent Unisexual Development in *Cryptococcus neoformans*. **PLoS Genetics** 13(5):e1006772. PMID: PMC5435349
(Recommended by *Faculty of 1000*)
52. Gyawali R, Upadhyay S, Way J, and Lin X^{*}. (2016) A family of secretory proteins is associated with different morphotypes in *Cryptococcus neoformans*. **Applied and Environmental Microbiology** pii: AEM.02967-16. PMID: PMC5311391
51. Upadhyay S[#], Xu X[#], and Lin X^{*}. (2016) Interactions between melanin enzymes and their atypical recruitment to the secretory pathway by palmitoylation. **mBio** 7(6) pii: e01925-16 PMID: PMC5120144

50. Upadhyay S[#], Xu X[#], Lowry D, Jackson JC, Roberson RW, and **Lin X***. (2016) Subcellular compartmentalization and trafficking of the biosynthetic machinery for fungal melanin. **Cell Reports** 14(11): 2511–2518. PMID: PMC4805463
49. Xu X, Zhao Y, Kirkman E, and **Lin X***. (2016) Secreted Acb1 contributes to the yeast-to-hypha transition in *Cryptococcus neoformans*. **Applied and Environmental Microbiology** 82:1069–1079. PMID: PMC4751841
48. Chacko N[#], Zhao Y[#], Yang E, Wang L, Cai J, and **Lin X***. (2015) The lncRNA *RZE1* controls cryptococcal morphological transition. **PLoS Genetics** 11(11): e1005692. PMID: PMC4654512 (Recommended by *Faculty of 1000*)
47. Zhai B, Wozniak KL, Masso-Silva J, Upadhyay S, Hole C, Rivera A*, Wormley FL*, and **Lin X***. (2015) Development of protective inflammation and cell-mediated immunity against *Cryptococcus neoformans* after exposure to hyphal mutants. **mBio** 6(5):e01433-15. PMID: PMC4611043
46. Wang L* and **Lin X***. (2015) The morphotype heterogeneity in *Cryptococcus neoformans*. **Current Opinion in Microbiology** 26:60–64, DOI: 10.1016/j.mib.2015.06.003
45. Idnurm A* and **Lin X***. (2015) Rising to the challenge of multiple *Cryptococcus* species and the diseases they cause. **Fungal Genetics and Biology** pii: S1087-1845(15)00098-5. PMID: PMC4461476
44. Lin J, Idnurm A*, and **Lin X***. (2015) Morphology and its underlying genetic regulation impact the interaction between *Cryptococcus neoformans* and its hosts. **Medical Mycology** 199:887-96. PMID: PMC4577057
43. **Lin X***, Chacko N, Wang L, and Pavuluri Y. (2015) Generation of stable mutants and targeted gene deletion strains in *Cryptococcus neoformans* through electroporation. **Medical Mycology** 53(3):225-34. PMID: PMC4574871
42. **Lin X***, Alspaugh JA, Liu H, and Harris S. (2015) Fungal Morphogenesis, in *Human Fungal Pathogens*, edited by Casadevall A, Mitchell AP, Berman J, Kwon-Chung J, Perfect JR, and Heitman J. **Cold Spring Harb Perspect Med** 5(2):a019679 PMID: PMC4315913
41. Yang E, Chow W, Wang G, Woo CY, Lau KP, Yuen K, **Lin X**, and Cai C*. (2014) Signature gene expression reveals novel clues to the molecular mechanisms of dimorphic transition in *Penicillium marneffeii*. **PLoS Genetics** 10(10):e1004662. PMID: PMC4199489
40. Wang L*, Tian X, Upadhyay S, Foyle D, Gyawali R, Yang E, Cai J, and **Lin X***. (2014) Morphotype transition and sexual reproduction are genetically associated in a ubiquitous environmental pathogen. **PLoS Pathogens** 10(6):e1004185. PMID: PMC4047104 (Featured Research Article by *PLoS Pathogens*)
39. Upadhyay S, Torres G, and **Lin X***. (2013) Laccases involved in 1,8-dihydroxynaphthalene melanin biosynthesis in *Aspergillus fumigatus* are regulated by developmental factors and copper hemostasis. **Eukaryotic Cell** 12(12):1641-52. PMID: PMC3889567
38. Tian X and **Lin X***. (2013) Matricellular protein Cfl1 regulates cell differentiation. **Communicative & Integrative Biology** 6:e26444. PMID: PMC3926872
37. Huang J, Foyle D, **Lin X**, and Yang J. (2013) Total synthesis and biological evaluation of an antifungal tricyclic o-hydroxy-p-quinone methide diterpenoid. **The Journal of Organic Chemistry** 78(18):9166-73. PMID: PMC3843042
36. Chacko N and **Lin X***. (2013) Non-coding RNAs in the development and pathogenesis of eukaryotic microbes. **Applied Microbiology and Biotechnology**. 97(18):7989-97. PMID: PMC3791853
35. Wang L, Tian X, Gyawali R, and **Lin X***. (2013) Fungal adhesion protein guides community behaviors and autoinduction in a paracrine manner. **Proc. Natl. Acad. Sci USA** 110(28):11571-6. PMID: PMC3710841 (Recommended by *Faculty of 1000*)
34. Zhai B, Zhu P, Foyle D, Upadhyay S, Idnurm A*, and **Lin X***. (2013) Congenic strains of the filamentous form of *Cryptococcus neoformans* for studies of fungal morphogenesis and virulence. **Infection and Immunity** 81(7): 2626-2637. PMID: PMC3697605

33. Zhu P, Zhai B, **Lin X***, and Idnurm A*. (2013) Congenic strains for genetic analysis of virulence traits in *Cryptococcus gattii*. **Infection and Immunity** 81(7): 2616-2625. PMID: PMC3697594
32. Gyawali R and **Lin X***. (2013) Prezygotic and postzygotic control of uniparental mitochondrial inheritance in *Cryptococcus neoformans*. **mBio** 4(2). pii: e00112-13 PMID: PMC3638309
31. Zhai B and **Lin X***. (2013) Evaluation of anti-cryptococcal activity of the antibiotic polymyxin B *in vitro* and *in vivo*. **International Journal of Antimicrobial Agents** 41:250– 254.
30. Wang L and **Lin X***. *Cryptococcus neoformans* and Cryptococcosis. **Encyclopedia of Infectious Disease**. **Greenwood Press**.
29. Wang L and **Lin X***. (2012) Morphogenesis in fungal pathogenicity: shape, size, and surface. **PLoS Pathogens** 8(12): e1003027. PMID: PMC3516537
28. Wang L, Zhai B, and **Lin X***. (2012) The link between morphotype transition and virulence in *Cryptococcus neoformans*. **PLoS Pathogens** 8(6): e1002765. PMID: PMC3380952 (Recommended by *Faculty of 1000*; Featured Research Article by *PLoS Pathogens*)
27. Zhai B, Cheng W, Wang L, Sachs MS*, and **Lin X***. (2012) The antidepressant sertraline provides a promising therapeutic option for neurotropic cryptococcal infections. **Antimicrobial Agents and Chemotherapy** 56(7): 3758-3766. PMID: PMC3393448 (Recommended by *Faculty of 1000*)
26. Gyawali R and **Lin X***. (2011) Mechanisms of uniparental mitochondrial DNA inheritance in *Cryptococcus neoformans*. **Mycobiology** 39(4): 235-242. PMID: PMC3385124
25. Qin Q, Luo J, **Lin X**, Pei J, Frerichs M, Ficht TA., and de Figueiredo P. (2011) Functional analysis of host factors that mediate the intracellular lifestyle of *Cryptococcus neoformans*. **PLoS Pathogens** 7(6): e1002078. PMID: PMC3116820 (Recommended by *Faculty of 1000*)
24. Zhai B and **Lin X***. (2011) Recent progress on antifungal drug development. **Current Pharmaceutical Biotechnology** 12(8):1255-62. DOI: 10.2174/138920111796117292
23. Wang L and **Lin X***. (2011) Mechanisms of unisexual mating in *Cryptococcus neoformans*. **Fungal Genetics and Biology** 48:651–660 DOI: 10.1016/j.fgb.2011.02.001
22. Cogliati M*, Viviani MA, and **Lin X***. (2011) Hybridization and its importance in *Cryptococcus* species complex, in *Cryptococcus: from human pathogen to model yeast*. Edited by J. Heitman, T. Kozel, J. Kwon-Chung, J. Perfect, and A. Casadevall. **American Society of Microbiology**. Chapter 25, 359-370. <https://doi.org/10.1128/9781555816858.ch25>
21. Hsueh YP, **Lin X**, Kwon-Chung J and Heitman J. (2011) Sexual reproduction of *Cryptococcus*, in *Cryptococcus: from human pathogen to model yeast*. Edited by J. Heitman, T. Kozel, J. Kwon-Chung, J. Perfect, and A. Casadevall. **American Society of Microbiology**. Chapter 7: 81-96 <https://doi.org/10.1128/9781555816858.ch7>
20. **Lin X***, Jackson J, Feretzaki M, Xue C, and Heitman J. (2010) Transcription factors Mat2 and Znf2 operate cellular circuits orchestrating opposite and same-sex mating in *Cryptococcus neoformans*. **PLoS Genetics** 13;6(5):e1000953. PMID: PMC2869318.
19. Zhai B, Zhou H, Yang L, Zhang J, Jung K, Giam C, Xiang X, and **Lin X***. (2010) Polymyxin B, in combination with fluconazole, exerts a potent fungicidal effect. **Journal of Antimicrobial Chemotherapy** 65(5):931-8. PMID: PMC2851492.
18. **Lin X***. (2009) *Cryptococcus neoformans*: morphogenesis, infection, and evolution. **Infection, Genetics and Evolution** 9:401-416. DOI: 10.1016/j.meegid.2009.01.013
17. Jackson J, Higgins L, and **Lin X***. (2009) Conidiation color mutants of *Aspergillus fumigatus* are highly pathogenic to the heterologous insect host *Galleria mellonella*. **PLoS ONE** 4(1), e4224 (1-14). PMID: PMC2625396.
16. **Lin X**, Patel S, Litvintseva A, Floyd A, Mitchell TG, and Heitman J. (2009) Diploids in the *Cryptococcus neoformans* serotype A population homozygous for the α mating type originate *via* unisexual mating.

PLoS Pathogens 5(1), e1000283 (1-18). PMID: PMC2629120.
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