
BIOGRAPHICAL SKETCH

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|---|-----------------------------|-----------|---------------------------------------|
| 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

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|----------------|--|
| 2024 – present | Co-Inventor and Co-founder – Ollabio Inc., Athens, GA |
| 2020 – present | Graduate Coordinator - Recruitment, 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

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

Professional Membership

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| 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

Scientific Community and Conference Service

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| 2024 – 2026 | Chair, Fungal Genetics Policy Steering Committee |
| 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 Review 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*, *NPJ Antimicrobials and Resistance*

Grant Review Service

2024 Ad hoc member, NIH ZRG1 F07C-Y Fellowships: Immunology and Infectious Diseases C study section; NIH Pathogenic Eukaryotes (PTHE) study section special emphasis panel (SEP); NIH Anti-Infective Resistance and Targets (AIRT) study section special emphasis panel (SEP)
2023 Ad hoc member, CDC special emphasis panel (SEP)
2023 Ad hoc member, NIH International Research in Infectious Diseases (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 Standing 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

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| 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

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| 2022, 2023 | Nominee for 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

101. Pham N, Peter Zhang, Ambati S, Meagher R*, and **Lin X***. (in press, 2024) Small but mighty: Targeted antifungal liposomes of a smaller size are superior in treating cryptococcal meningitis. ***mBio***
100. Glueck N, Xie X, and **Lin X***. (in press, 2024) Alternative isoforms and phase separation of Ref1 repress morphogenesis in *Cryptococcus*. ***Cell Reports***
99. Matha A, Xie X, Maier R, and **Lin X***. (2024) Nickel tolerance is channeled through C-4 methyl sterol oxidase Erg25 in the sterol biosynthesis pathway. ***PLoS Genetics*** 20(9): e1011413
<https://doi.org/10.1371/journal.pgen.1011413>
98. Chadwick BJ, Xie X, Ristow L, Krysan DJ, and **Lin X***. (2024) Discovery of CO₂ tolerance genes associated with virulence in the opportunistic fungal pathogen *Cryptococcus neoformans*. ***Nature Microbiology*** DOI: 10.1038/s41564-024-01792-w
97. Pham N#, Shi R#, Ambati S#, Meagher R*, and **Lin X***. (2024) All hands on Dec: treating cryptococcosis with dectin decorated liposomes loaded with antifungals. ***iScience*** 27, 110349. PMID: PMC11269288
96. Chadwick BJ and **Lin X***. (2024) Effects of CO₂ in fungi. ***Current Opinion in Microbiology*** 79:102488. doi: 10.1016/j.mib.2024.102488. PMID: PMC11162916
95. Shi R and **Lin X***. (2024) Illuminating *Cryptococcus neoformans*: Unveiling Intracellular Structures with Fluorescent-Protein-Based Markers. ***Genetics*** DOI: 10.1093/genetics/iyae059. PMID: PMC11228865

94. Li Y, Chadwick B, Pham T, Xie X, and **Lin X***. (2024) Aspartyl peptidase May1 induces host inflammatory response by altering cell wall composition in the fungal pathogen *Cryptococcus neoformans*. **mBio** 10.1128/mbio.00920-24. PMID: PMC11237595
93. Matha A, Xie X and **Lin X***. (2024) Ergosterol is critical for sporogenesis in *Cryptococcus neoformans*. In the special issue: Fifty Years of Fungi: A Special Issue Honoring the Contributions of Dr. June Kwon-Chung to the Field of Medical Mycology **Journal of Fungi** 10(2), 106; <https://doi.org/10.3390/jof10020106> PMID: PMC10890046
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*. (2024) Host glucose induces cryptococcal tolerance of fungicidal drugs during fungal meningitis. **Nature Microbiology** DOI: 10.1038/s41564-023-01561-1
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 PMID: PMC10985624
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 PMID: PMC10823756
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
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