
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

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

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

Scientific Community and Conference Service

2024 – 2025	Member: scientific committee, 2025 International Fungal Biology Conference
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 29th 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); NIH Disease Control and Applied Immunology (DCAI) 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
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, 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

106. Ambati S, Choudhury Q, Peter J, Moremen K, Chapla D, Lewis Z, **Lin X**, and Meagher R. (in press) Siglec-Targeted Liposomes to Identify Sialoglycans Present on Fungal Pathogens. ***Antimicrobial Agents and Chemotherapy***
105. Li Y[#], Ambati S[#], Meagher R^{*}, and **Lin X^{*}**. (2025) Developing mRNA lipid nanoparticle vaccine for cryptococcosis in a murine model. ***NPJ vaccines*** 4;10(1):24. PMID: PMC11794474
104. Chadwick BJ[#], Ristow L[#], Blackburn E[#], Xie X, Krysan DJ^{*}. and **Lin X^{*}**. (2025) Microevolution of *Cryptococcus neoformans* in high CO₂ converges on mutations isolated from patients with relapsed cryptococcosis. ***Cell Reports*** 43(11):114904 PMID: PMC11661864
103. Li Y, Pham N, Hipsher K, Lee C, Jiao J, Penninger J, Kronstad J, Fan Y, Zhao Y, Ambati S, Meagher R, Xie X, and **Lin X^{*}**. (2025) Identification of a protective antigen reveals the trade-off between iron acquisition and antigen exposure in a global fungal pathogen. ***Proc. Natl. Acad. Sci USA (PNAS)*** 122 (7) e2420898122
102. Ambati S, Li Y, Whittaker M.K., Kennedy E.J., **Lin X**, Lewis Z.A. and Meagher R.B. (in press, 2025) Anionic lipids direct efficient stable microfluidic encapsulation of active proteins in lipid nanoparticles. ***Communication Materials***

101. Pham N[#], Peter Zhang[#], Ambati S[#], Meagher R*, and **Lin X***. (2024) Small but mighty: Targeted antifungal liposomes of a smaller size are superior in treating cryptococcal meningitis. *mBio* DOI: 10.1128/mbio.02507-24 PMID: PMC11633377
100. Glueck N, Xie X, and **Lin X***. (2024) Alternative isoforms and phase separation of Ref1 repress morphogenesis in *Cryptococcus*. *Cell Reports* 43(11):114904 doi: 10.1016/j.celrep.2024.114904. PMID: PMC11661864
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>. PMID: PMC11426505
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 (PNAS)* 110(28):11571-6. PMID: PMC3710841
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