Paul L. Maurizio

CONTACT INFORMATION	The University of Chicago Section of Genetic Medicine Knapp Center for Biomedical Discovery Chicago, Illinois 60637-1428	$\label{eq:https://mauriziopaul.github} \verb maurizio@uchicago.edu \\ (914) \ 610-3984$.io
EDUCATION	□ Ph.D. , University of North Carolina at Cha	apel Hill (UNC-CH)	2018
	Curriculum in Bioinformatics & Computation Sc.M., Johns Hopkins University (JHU) Blue Department of Molecular Microbiology & Inc.	oomberg School of Public Health	s 2011
	Certificate in Vaccine Science & Policy; Dep B.A., Swarthmore College Majors: Biochemistry; Religion	00	2010 2005
ACADEMIC POSITIONS HELD	 □ University of Chicago, Department of M • Postdoctoral Fellow Supervisor: Luis B. Barreiro, Ph.D. Research Areas: single-cell RNA-seq; mappi eQTLs in human macrophages; immunogene environmental effects on immune regulation • Postdoctoral Scholar 	ng dynamic <i>M. tuberculosis</i> infection omics; gene regulatory networks; soci	3/2020–Present a response
	 □ Johns Hopkins University, Baltimore, M. • Visiting Scholar, Bloomberg School of Pu Department of Molecular Microbiology & In Supervisor: Fidel Zavala, M.D. Research Areas: molecular parasitology; transport 	blic Health 07, nmunology	/2011-06/2012 juvant studies
Graduate Research	 □ Graduate Research Assistant, UNC-CH • Advisors: Mark T. Heise, Ph.D. & William • Committee: Terrence S. Furey, Ph.D. (chair Ralph S. Baric, Ph.D.; Jeremy E. Purvis, Ph.D.; Jeremy E. Purvis, Ph.D.; Graduate Research Assistant (Rotation • Advisors: David M. Margolis, M.D.; Aravin □ Graduate Research Assistant, JHU 	Valdar, Ph.D.); Fernando Pardo-Manuel de Villena h.D. s), UNC-CH da M. de Silva, Ph.D.; Kristina De F	/2012-05/2013
	• Advisor: Douglas E. Norris, Ph.D.		
Grants, Fellowships &	□ Awardee, NIH/NIAID LRP, Loan Reparement Research in Emerging Areas Critical to Hum		2022–Present
SCHOLARSHIPS Scholarships	□ PI, NIH/NIA F32, Ruth L. Kirschstein M Sponsors: Luis B. Barreiro, Ph.D.; Matthew Proposal: "Quantifying gene expression and	National Research Service Award 7 Stephens, Ph.D. (Statistics)	2020-Present
	consequences of stress on the immune respo	nse" (#F32AG064883)	2019–Present
	☐ PI, UChicago Pilot Grant, Department Advisors: Luis B. Barreiro, Ph.D.; Patrick V Proposal: "Modeling the effects of social str	Wilson, Ph.D. (Rheumatology)	
	to influenza vaccination" □ Fellow, NIH T32 Fellowship, Virology T	Training Grant, UNC-CH	2015-2016
	☐ Scholar, Master's Tuition Scholarship,		2010 – 2011
	☐ Fellow, Joshua Lippincott Fellowship,	<u> </u>	2009-2010
	☐ Fellow, NSF Summer REU in Prokary Advisor: Juergen Wiegel, Ph.D., Departmen	<u> </u>	2004
	□ Fellow, NASA Astrobiology Summer I Advisor: Hiroshi Ohmoto, Ph.D., Departme	_ ,	2003

Honors &	☐ ISFS Associate, Intersections Science Fellows Symposium (ISFS)	11/2021
Awards	□ Award, Travel, 2 nd Annual Science Policy Symposium	2018
	National Science Policy Network, NYC, NY	
	☐ Award, Travel, 2 nd Penn Symposium on Mathematical & Computational Biology	2017
	(declined, unable to attend), Philadelphia, PA	
	□ Award, Notable Poster, 1 st Annual Research Computing Symposium, UNC-CH	2014
	☐ Award, Student Membership, Tropical Medicine Dinner Club of Baltimore 20	010 & 2011
	☐ Award, Blue Ribbon Poster, Johns Hopkins Global Health Day, JHU	2011
	☐ Award, Global Health Field Research, JHU Center for Global Health	2010
	☐ Award, Simpson Student Fund, Tropical Medicine Dinner Club of Baltimore	2010
	□ Deans' Award. Swarthmore College	2005

PEER-REVIEWED PUBLICATIONS

Grieshop K, Maurizio PL, Arnqvist G and Berger D. 2021. Selection in males purges the mutation load on female fitness. *Evol Letters*. 5(4):328-343. doi: 10.1002/evl3.239. PMID: 34367659.

Sanz J, Maurizio PL, Snyder-Mackler N, Simons ND, Voyles T, Kohn J, Michopoulos V, Wilson M, Tung J and Barreiro LB. **2020**. Social history and exposure to pathogen signals modulate social status effects on gene regulation in rhesus macaques. *Proc Natl Acad Sci USA*. 117(38):23317-22. doi: 10.1073/pnas.1820846116. PMID:31611381.

Maurizio PL^{\dagger} , Fuseini H, Tegha G, Hosseinipour M and De Paris K. **2019**. Signatures of divergent anti-malarial treatment responses in peripheral blood from adults and young children in Malawi. *Malaria J.* 18(1):205. doi: 10.1186/s12936-019-2842-7. PMID:31234875. (\dagger = corresp. author)

Shorter JR*, Maurizio PL*, Bell TA, Shaw GD, Miller DR, Gooch TJ, Spence JS, McMillan L, Valdar W and Pardo-Manuel de Villena F. 2019. A diallel of the mouse Collaborative Cross founders reveals strong strain-specific maternal effects on litter size. *G3: Genes, Genomes, Genetics.* 9(5):1613-1622. doi: 10.1534/g3.118.200847. PMID:30877080. (* = equal contribution)

Maurizio PL, Ferris MT, Keele GR, Miller DR, Shaw GD, Whitmore AC, West A, Morrison CR, Noll KE, Plante KS, Cockrell AS, Threadgill DW, Pardo-Manuel de Villena F, Baric RS, Heise MT and Valdar W. 2018. Bayesian diallel analysis reveals *Mx1*-dependent and *Mx1*-independent effects on response to influenza A virus in mice. *G3: Genes, Genomes, Genetics.* 8(2): 427-445. doi: 10.1534/g3.117.300438. PMID:29187420.

Turner SD, Maurizio PL, Valdar W, Yandell BS and Simon PW. Dissecting the genetic architecture of shoot growth in carrot (*Daucus carota* L.) using a diallel mating design. **2018**. *G3: Genes, Genomes, Genetics*. 8(2): 411-426. doi: 10.1534/g3.117.300235. PMID:29187419.

Espinosa DA, Yadava A, Angov E, **Maurizio PL**, Ockenhouse CF and Zavala F. **2013**. Development of a chimeric *Plasmodium berghei* strain expressing the repeat region of the *P. vivax* circumsporozoite protein for in vivo evaluation of vaccine efficacy. *Infection and Immunity*. 81(8):2882-2887. doi: 10.1128/IAI.00461-13. PMID:23716612.

Walsh MC, Kim GK, Maurizio PL, Molnar EE and Choi Y. 2008. TRAF6 auto-ubiquitination-independent activation of the NF κ B and MAPK pathways in response to IL-1 and RANKL. *PLoS One.* 3(12):e4064. doi: 10.1371/journal.pone.0004064. PMID:19112497.

PREPRINTS, ABSTRACTS & OTHER CONTRIBUTIONS (SELECTED) Parrett JM, Lukasiewicz A, Chmielewski S, Szubert-Kruszynska A, **Maurizio PL**, Grieshop K and Radwan J. A sexually-selected male weapon characterised by strong additive genetic variance and no evidence for sexually antagonistic polyphenic maintenance. (*manuscript under review*, 08/2022)

Maurizio PL, Aguirre-Gamboa R, Sanz J, Giraud-Gatineau A, Randolph HE, Von Platen C, Loulergue P, Launay O, Yotova V, Dumaine A, Brosch R, Tailleux L* and Barreiro LB*. **2022**. Dynamic genetic control of the gene expression response to *Mycobacterium tuberculosis* infection in human macrophages. Biology of Genomes, May 10th-14th. (abstract; * co-senior)

Hampton BK, Jensen KL, Whitmore AC, Gralinski LE, Leist SR, Linnertz CL, **Maurizio P**, Menachery VD, Morrison CR, Noll KE, Plante KS, Shaefer A, Shaw GD, West A, Pardo-Manuel de Villena F, Baric RS, Heise MT and Ferris MT. **2021**. Genetic regulation of immune homeostatic lung leukocyte populations influences respiratory virus induced disease in collaborative cross mice. *J Immunol.* 206(Supplement 1):24.05-24.05. (abstract)

Campbell CR, Maurizio PL, Simons ND, Batista J, Voyles T, Cobb M, Dumaine A, Michopoulos V, Barreiro L and Tung J. 2021. Social behavioral control of cell-to-cell gene expression variance in rhesus macaque immune cells. Biology of Genomes, May 11th–14th. (abstract)

Hampton BK, Jensen KL, Whitmore AC, Linnertz CL, Maurizio P, Miller DR, Morrison CR, Noll KE, Plante KS, Shaw GD, West A, Baric RS, Pardo-Manuel de Villena F, Heise MT and Ferris MT. **2021**. Genetic regulation of homeostatic immune architecture in the lungs of Collaborative Cross mice. bioRxiv 2021.04.09.439180. doi: 10.1101/2021.04.09.439180. (preprint 2021-04-10)

Lee J, Strattan JS, Kagda M and **Maurizio P. 2020**. ENCODE-DCC/chip-seq-pipeline2: Zenodo integration for citation purposes (v1.5.2). Zenodo. doi: 10.5281/zenodo.3978629. (software contribution)

Simons ND, Maurizio PL, Batista J, Michopoulos V, Barreiro LB and Tung J. 2020. Parallel gene regulatory signatures of social stress and aging in rhesus macaques. 289th Annual Meeting of the American Association of Physical Anthropologists, April 15th–18th. (abstract)

Keele GR, Maurizio PL, Oreper D and Valdar W. 2018. Bayesian decision theoretic design of two-founder experimental crosses given diallel data. bioRxiv 489682. doi: 10.1101/489682. (working paper 2018-10-07)

Maurizio PL. 2018. Modeling the Host Genetic Determinants of Influenza Virus Pathogenesis in Mice. Doctor of Philosophy (Ph.D.) Dissertation. University of North Carolina at Chapel Hill. 270 pp. (dissertation)

Maurizio PL and Ferris MT. 2017. "The Collaborative Cross Resource for Systems Genetics Research of Infectious Diseases." *Methods in Molecular Biology: Systems Genetics - Methods and Protocols.* Springer/Humana Press: New York, NY. Editors: Klaus Schughart, Robert Williams. doi: 10.1007/978-1-4939-6427-7_28. PMID:27933545. (chapter)

Maurizio PL. 2011. Detection and vertical transmission of *Culex* flavivirus in *Culex quinquefasciatus* (Diptera: Culicidae) mosquitoes from Zambia, Africa. Master of Science (Sc.M.) thesis. Johns Hopkins University. 127 pp. (thesis)

Kendall GC, Mokhonova E, Moran M, Maurizio P, Spencer M, Nelson S, Miceli MC. 2010. High throughput screening for the identification of small molecules that modulate exon

Mesbah NM, Maurizio P, Zhang CL, Romanek CS, Mills G and Wiegel J. 2005. Isolation of halophilic thermophilic 'Caloramator halophilus' sp. nov. from salt flats of Northern Nevada. American Society for Microbiology 105th General Meeting. Atlanta, GA, June 5th-9th. (abstract)□ Staff Research Associate, University of California, Los Angeles, CA 10/2007-07/2009 Additional Department of Microbiology, Immunology & Molecular Genetics Professional EXPERIENCE Supervisor: M. Carrie Miceli, Ph.D. ☐ Research Specialist, University of Pennsylvania, Philadelphia, PA 10/2005-09/2007 Department of Pathology & Laboratory Medicine Supervisor: Yongwon Choi, Ph.D. □ Ecological Field Assistant, Grand Canyon Trust, Flagstaff, AZ 05/2005-07/2005Conference □ Poster Presenter, Biology of Genomes, Cold Spring Harbor, NY 05/2022Presentations "Dynamic genetic control of the gene expression response to Mycobacterium tuberculosis (SELECTED) infection in human macrophages" □ Flash Talk, Intersections Science Fellows Symposium, virtual 11/2021 "Uncovering cell-type-specific effects of social stress on the immune response in macaques" Oral Presenter, Division of Aging Biology New Investigators Forum, NIH/NIA 07/2021"Uncovering cell-type-specific effects of social stress on the immune response" □ Oral Presenter, 15th Complex Trait Community Meeting: Memphis, TN 06/2017**Presentation Award**, "Diallel analysis reveals Mx1-dependent and independent effects driving influenza virus severity" □ Poster Presenter, Gordon Research Conference: Lucca (Barga), Italy 02/2015Quantitative Genetics & Genomics; "Characterization of parent-of-origin effects on host response to influenza A virus in reciprocal cross mice." □ Oral Presenter, Southeastern Regional Virology Conference: Atlanta, GA. 04/2014"Influenza infections in a diallel cross of mice reveal parent-of-origin effects influencing viral pathogenesis" □ Poster Presenter, Entomological Society of America Eastern Branch 03/201182nd Annual Meeting: Harrisburg, PA. Presentation Award 05/2021Campus □ Panelist, Sharing of Diverse Perspectives: Postdoc Edition, UChicago Presentations Graduate Recruitment Initiative Team (SELECTED) ☐ Presenter, Committee on Immunology Work-in-Progress, UChicago 05/2021☐ Panelist, PDA Seminar on Postdoc Fellowships, UChicago 02/202111/2019 □ Presenter, Department of Human Genetics Work-in-Progress, UChicago ☐ Keynote Speaker, Midwest FLI Summit, UChicago 04/2019Invited by Socioeconomic Diversity Alliance to present my first-gen experience □ Panelist, Carolina Grad Student Firsts, UNC-CH and Duke University 01/2018 - 04/2018Volunteered on three speaker panels for first-gen undergraduates Teaching & □ Champion Mentor, First-Generation, Low-Income, Immigrant (FLI) Network MENTORSHIP • Dang Nguyen, 1st year undergraduate; Majors: Comp Sci/Math 2020-Present • Christian Porras, Present: M.D./Ph.D. student at Mt. Sinai MSTP 2018 - 2020☐ Guest Speaker, Skype-A-Scientist • Ericson Elementary, 5th grade, San Diego, CA 11/2021 • The Liberi School, 7th grade, Hudson, NY 02/2021• Leitch Elementary, 2nd grade, Fremont, CA 11/2020

skipping on the DMD gene. Ottawa Conference on New Directions in Biology and Disease of

Skeletal Muscle, Ottawa, Canada, May 5th-8th. (abstract)

https://bit.ly/IntroToR-HTLTC Coding Helper, Software Carpentry Workshop (Git, SQL), UNC-CH 2016 Teaching Assistant, Foundations in Population Genomics, BCB 722, UNC-CH 2014 Teaching Assistant, Global TEFL Network, Zhejiang University, Hangzhou, China 2007 Teaching Assistant, Biological Chemistry Laboratory, CHEM 038, Swarthmore 2004 PROFESSIONAL DEVELOPMENT Selected Participant, Grant Writing Coaching Groups 2021–2022 The Leadership Alliance Selected Participant, University of Pittsburgh Study 2020–2022 Building up a diverse pipeline for the biomedical research workforce Participant, Academic Job Market Working Groups, UChicagoGRAD 08/2021–09/2021 Selected Participant, GENETICS Peer Review Training Program 2018–2020 Attendee, The Allied Genetics Conference 2020 (TAGC), April 22 nd -25 th , online 2020 Attendee, The Genetics of Human Disease, Cell Press Symposium, Chicago, IL 2019 Participant, Scientific Writing from the Reader's Perspective Workshop, UNC-CH 2017 Participant, Rigor & Reproducibility Workshop, UNC-CH 2016 Student, Systems Genetics Course, The Jackson Lab, Bar Harbor, ME 2014 Participant, Next Generation Sequencing Workshop, UNC-CH 2017 Participant, Next Generation Sequencing Workshop, UNC-CH 2014 Participant, Next Generation Sequencing Workshop, UNC-CH 2014
□ Teaching Assistant, Foundations in Population Genomics, BCB 722, UNC-CH □ Teaching Assistant, Global TEFL Network, Zhejiang University, Hangzhou, China 2007 □ Teaching Assistant, Biological Chemistry Laboratory, CHEM 038, Swarthmore 2004 PROFESSIONAL DEVELOPMENT □ Selected Participant, Grant Writing Coaching Groups 2021–2022 The Leadership Alliance □ Selected Participant, University of Pittsburgh Study 2020–2022 Building up a diverse pipeline for the biomedical research workforce □ Participant, Academic Job Market Working Groups, UChicagoGRAD 08/2021–09/2021 □ Selected Participant, GENETICS Peer Review Training Program 2018–2020 □ Attendee, The Allied Genetics Conference 2020 (TAGC), April 22 nd -25 th , online 2020 □ Attendee, The Genetics of Human Disease, Cell Press Symposium, Chicago, IL 2019 □ Participant, Scientific Writing from the Reader's Perspective Workshop, UNC-CH 2017 □ Participant, Rigor & Reproducibility Workshop, UNC-CH 2016 □ Student, Systems Genetics Course, The Jackson Lab, Bar Harbor, ME 2014 □ Participant, Next Generation Sequencing Workshop, UNC-CH 2017
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□ Participant, Academic Job Market Working Groups, UChicagoGRAD 08/2021–09/2021 □ Selected Participant, GENETICS Peer Review Training Program 2018–2020 □ Attendee, The Allied Genetics Conference 2020 (TAGC), April 22 nd -25 th , online 2020 □ Attendee, The Genetics of Human Disease, Cell Press Symposium, Chicago, IL 2019 □ Participant, Scientific Writing from the Reader's Perspective Workshop, UNC-CH 2017 □ Participant, Rigor & Reproducibility Workshop, UNC-CH 2016 □ Student, Systems Genetics Course, The Jackson Lab, Bar Harbor, ME 2014 □ Participant, Next Generation Sequencing Workshop, UNC-CH 2014
□ Selected Participant, GENETICS Peer Review Training Program □ Attendee, The Allied Genetics Conference 2020 (TAGC), April 22 nd -25 th , online □ Attendee, The Genetics of Human Disease, Cell Press Symposium, Chicago, IL □ Participant, Scientific Writing from the Reader's Perspective Workshop, UNC-CH □ Participant, Rigor & Reproducibility Workshop, UNC-CH □ Student, Systems Genetics Course, The Jackson Lab, Bar Harbor, ME □ Participant, Next Generation Sequencing Workshop, UNC-CH □ 2014
 □ Attendee, The Allied Genetics Conference 2020 (TAGC), April 22nd-25th, online □ Attendee, The Genetics of Human Disease, Cell Press Symposium, Chicago, IL □ Participant, Scientific Writing from the Reader's Perspective Workshop, UNC-CH □ Participant, Rigor & Reproducibility Workshop, UNC-CH □ Student, Systems Genetics Course, The Jackson Lab, Bar Harbor, ME □ Participant, Next Generation Sequencing Workshop, UNC-CH 2014 □ Participant, Next Generation Sequencing Workshop, UNC-CH
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Peer-Review Reviewer Heredity (Cenetics Society) 2022-Procent
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□ Reviewer, Microbiology Spectrum (American Society for Microbiology) 2021–Present
□ Reviewer, Journal of Virology (American Society for Microbiology) 2020—Present
□ Reviewer, Database (Oxford University Press) 2019–Present
□ Reviewer, Genetics (Genetics Society of America) 2018–Present
□ Reviewer, UChicago BSD Career Advancement for Postdocs Travel Awards 2021
SERVICE & UChicago-DuSable Museum of African American History Collab. 08/2021–Present
OUTREACH Co-founder, Pan-Asian Resource Group, UChicago 03/2021-Present
☐ Co-founder, Pan-Asian Coalition, Biological Sciences Division, UChicago 03/2021−Present
☐ Member, Committee on Immunology DEI Committee, UChicago 03/2021−Present
☐ Member, Postdoctoral Association (PDA) Steering Committee, UChicago 11/2020—Present
• Chair, Policy Committee; Co-organizer, Fellowship Writing Accountability Group
□ Presentation Judge, Chicago EYES on Cancer/Diversity Research Symposium 08/2021
□ Board of Directors, Universities Allied for Essential Medicines, 501(c)(3) 10/2015–10/2019
Session Chair, Virology Colloquium, UNC-Chapel Hill, Chapel Hill, NC 10/2015
□ Session Chair, Evolution 2014 Conference, Raleigh, NC 06/2014 □ Peer Mentor, 1 st -Year Group, Biol. & Biomed. Sci. Program, UNC-CH 09/2013–12/2013
☐ Guest Blogger, 12 th Annual World Vaccine Congress, National Harbor, MD 04/2012
☐ HIV Tester & Counselor, Institute for Human Virology, Baltimore, MD 07/2010-01/2012
☐ Tutor, Health Professions Recruitment and Exposure Program, JHU 01/2010-03/2010
QUANTITATIVE
SKILLS & Mathematica, JAGS, BUGS, Stan, bash, git, STATA, MCMCglmm
Training
Mathematical Modeling, Sequence Analysis, Infectious Disease Dynamics, Introduction to
Statistical Modeling, Statistical Methods in Public Health, Structural Bioinformatics, Topics in Computer Science: Computational Genetics, Topics in Population Genetics