

# **Curriculum Vitae**

## **Mitch Magee**

### **Biographical**

*Name:* Dewey Mitchell (Mitch) Magee  
*Birthdate:* March 8, 1956  
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*Spouse:* Carolyn Elisa Sturrock, Married August 5, 1978  
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### **Education and Training**

*Undergraduate:*  
1974 - 1977     Lamar University  
                  Beaumont, TX 77710  
1977 - 1978     The University of Texas Medical Branch     B.S. - 1978  
                  School of Allied Health Sciences     Medical Technology  
                  Galveston, TX 77550     (ASCP Certification, 123098)

*Graduate:*  
1980 - 1985     Texas A&M University     Ph.D. - 1985  
                  Department of Biology     Microbiology  
                  College Station, TX 77843

*Postgraduate:*  
1985 - 1987     University of Pittsburgh     Postdoctoral Fellow  
                  Department of Medicine  
                  School of Medicine  
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## Appointments and Positions

### *Academic:*

1980 - 1985	Texas A&M University Department of Biology College Station, TX 77843	Graduate Assistant
1985 - 1987	University of Pittsburgh Department of Medicine School of Medicine Pittsburgh, PA 15213	Postdoctoral Fellow
1987 - 1988	University of Pittsburgh Department of Medicine School of Medicine Pittsburgh, PA 15213	Research Assistant Professor
1988 - 1991	The University of Texas Health Science Center - San Antonio Department of Medicine San Antonio, TX 78284	Research Assistant Professor
1991 - 2000	The University of Texas Health Science Center - San Antonio Departments of Medicine and Microbiology San Antonio, TX 78284	Adjunct Assistant Professor
2000 - 2004	The University of Texas Health Science Center - San Antonio Department of Microbiology and Immunology San Antonio, TX 78284	Research Assistant Professor
2004 – 2005	UT Southwestern Medical Center Center for Biomedical Inventions Dallas, TX 75390	Research Assistant Professor
2005 – 2009	The Biodesign Institute at ASU Center for Innovations in Medicine Tempe, AZ 85287	Research Assistant Professor
2009 – present	The Biodesign Institute at ASU Center for Personalized Diagnostics Tempe, AZ 85287	Research Assistant Professor

### *Non-Academic:*

1978 - 1980	The University of Texas Medical Branch Department of Medicine Division of Infectious Diseases Galveston, TX 77550	Research Technician
1981 - 1985	Humana Hospital Bryan-College Station Clinical Laboratory Bryan, TX 77803	Medical Technologist
1989 - 1992	Humana Hospital San Antonio Clinical Laboratory San Antonio, TX 78284	Medical Technologist
1991 - 2000	Texas Center for Infectious Disease Department of Clinical Investigation San Antonio, TX 78223	Director of Programs

## Publications in Refereed Journals

1. Song L, Rauf F, Hou CW, Qiu J, Murugan V, Chung Y, Lai H, Adam D, **Magee DM**, Trivino Soto G, Peterson M, Anderson KS, Rice SG, Readhead B, Park JG, LaBaer J. Quantitative assessment of multiple pathogen exposure and immune dynamics at scale. *Microbiol Spectr*. 2024;12(1):e0239923. Epub 2023/12/08. doi: 10.1128/spectrum.02399-23. PubMed PMID: 38063388; PMCID: PMC10783028.
2. Koehler MA, Song L, Grill FJ, Shubitz LF, Powell DA, Galgiani JN, Orbach MJ, Robb EJ, Chung Y, Williams SA, Murugan V, Park JG, LaBaer J, Lake DF, **Magee DM**. Discovery of a Unique Set of Dog-Seroreactive Coccidioides Proteins Using Nucleic Acid Programmable Protein Array. *J Fungi (Basel)*. 2024;10(5). Epub 2024/05/24. doi: 10.3390/jof10050307. PubMed PMID: 38786662; PMCID: PMC11121964.
3. Ishida E, Corrigan DT, Chen T, Liu Y, Kim RS, Song L, Rutledge TM, **Magee DM**, LaBaer J, Lowary TL, Lin PL, Achkar JM. Mucosal and systemic antigen-specific antibody responses correlate with protection against active tuberculosis in nonhuman primates. *EBioMedicine*. 2024;99:104897. Epub 2023/12/15. doi: 10.1016/j.ebiom.2023.104897. PubMed PMID: 38096687; PMCID: PMC10758715.
4. Sasser J, Li CB, Doane LD, Krasnow A, Murugan V, **Magee DM**, LaBaer J. Associations between COVID-19 sleep patterns, depressive symptoms, loneliness, and academic engagement: a latent profile analysis. *J Am Coll Health*. 2023;1-5. Epub 2023/08/03. doi: 10.1080/07448481.2023.2239361. PubMed PMID: 37535853.
5. Lal D, Song L, Brar T, Cope EK, Keim P, Williams S, Chung Y, Murugan V, LaBaer J, **Magee DM**. Antibody responses to the host microbiome in chronic rhinosinusitis. *Int Forum Allergy Rhinol*. 2023;13(8):1503-10. Epub 2022/12/13. doi: 10.1002/alr.23107. PubMed PMID: 36504343.
6. Higgins Keppler EA, Van Dyke MCC, Mead HL, Lake DF, **Magee DM**, Barker BM, Bean HD. Volatile Metabolites in Lavage Fluid Are Correlated with Cytokine Production in a Valley Fever Murine Model. *J Fungi (Basel)*. 2023;9(1). Epub 2023/01/22. doi: 10.3390/jof9010115. PubMed PMID: 36675936; PMCID: PMC9864585.
7. Grill FJ, Svarovsky S, Gonzalez-Moa M, Kaleta E, Blair JE, Lovato L, Grant R, Ross K, Linnehan BK, Meegan J, Reilly KS, Brown A, Williams S, Chung Y, **Magee DM**, Grys TE, Lake DF. Development of a rapid lateral flow assay for detection of anti-coccidioidal antibodies. *J Clin Microbiol*. 2023;61(9):e0063123. Epub 2023/09/01. doi: 10.1128/jcm.00631-23. PubMed PMID: 37655868; PMCID: PMC10512788.
8. Grill FJ, Jugler C, Kaleta E, Chen Q, **Magee DM**, Grys TE, Lake DF. Clinical Laboratory Utility of a Humanized Antibody in Commercially Available Enzyme Immunoassays for Coccidioidomycosis. *Microbiol Spectr*. 2022;10(5):e0257322. Epub 2022/09/20. doi: 10.1128/spectrum.02573-22. PubMed PMID: 36121238; PMCID: PMC9602258.
9. Pflughoeft KJ, Mash M, Hasenkampf NR, Jacobs MB, Tardo AC, **Magee DM**, Song L, LaBaer J, Philipp MT, Embers ME, AuCoin DP. Multi-platform Approach for Microbial Biomarker Identification Using *Borrelia burgdorferi* as a Model. *Front Cell Infect Microbiol*. 2019;9:179. Epub 2019/06/28. doi: 10.3389/fcimb.2019.00179. PubMed PMID: 31245298; PMCID: PMC6579940.
10. Mitchell NM, **Magee DM**, Grys TE, Lake DF. Evaluation of Virex(R) II 256 and Virex(R) Tb as Disinfectants of the Dimorphic Fungi *Coccidioides immitis* and *Coccidioides posadasii*. *Appl Biosaf*. 2019;24(1):30-3. Epub 2019/04/10. doi: 10.1177/1535676018818560. PubMed PMID: 30962770; PMCID: PMC6449853.
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12. Song L, Wallstrom G, Yu X, Hopper M, Van Duine J, Steel J, Park J, Wiktor P, Kahn P, Brunner A, Wilson D, Jenny-Avital ER, Qiu J, Labaer J, **Magee DM**, Achkar JM. Identification of Antibody Targets for Tuberculosis Serology using High-Density Nucleic Acid Programmable Protein Arrays. *Mol Cell Proteomics*. 2017;16(4 suppl 1):S277-S89. PubMed PMID: 28223349; PMCID: PMC5393403.
13. Rivera R, Wang J, Yu X, Demirkan G, Hopper M, Bian X, Tahsin T, **Magee DM**, Qiu J, LaBaer J, Wallstrom G. Automatic Identification and Quantification of Extra-Well Fluorescence in Microarray Images. *Journal of proteome research*. 2017. Epub 2017/09/25. doi: 10.1021/acs.jproteome.7b00267. PubMed PMID: 28938071.
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33. Tominaga K, **Magee DM**, Matzuk MM, Pereira-Smith OM. PAM14, a novel MRG- and Rb-associated protein, is not required for development and T-cell function in mice. *Mol Cell Biol*. 2004;24(19):8366-73. doi: 10.1128/MCB.24.19.8366-8373.2004. PubMed PMID: 15367658; PMCID: 516751.
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45. Yang MC, **Magee DM**, Kaufman L, Zhu Y, Cox RA. Recombinant *Coccidioides immitis* complement-fixing antigen: detection of an epitope shared by *C. immitis*, *Histoplasma capsulatum*, and *Blastomyces dermatitidis*. *Clin Diagn Lab Immunol*. 1997;4(1):19-22. PubMed PMID: 9008276; PMCID: 170470.
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### Chapters and Proceedings of Conferences and Symposia

1. **Magee DM**, Wing EJ. *In vitro* production of colony-stimulating factors by *Listeria*-immune spleen cells. *In Advances in Experimental Biology and Medicine.* Eds. Eisenstein TK, Bullock WE, and Hanna N, Plenum Publishing, pp. 245-255, 1988.
2. Williams DM, **Magee DM**, Bonewald LF, Smith JG, Bleicker CA, Schachter J: Tumor necrosis factor alpha induction by MoPn. pp 217-221, *In Chlamydial infections.* eds Bowie WR, Caldwell HD, Jones RP, Mardh PA, Ridgway GL, Schachter J, Stamm WE, Ward ME. Cambridge University Press, Cambridge.

3. Gregory SH, **Magee DM**, and Wing EJ: The role of colony-stimulating factors in host defenses. Proc. Soc. Exp. Biol. 197:349-360, 1991.
4. Cox RA, and **Magee DM**: Protective immunity in coccidioidomycosis. Research in Immunology. **149**:417-428, 1998.
5. **Magee DM**, Cox RA. Cell-mediated immunity and endemic mycoses. In: Fungal Pathogenesis: Principles and Clinical Applications. R.L. Cihlar and R.A. Calderone (eds.), Marcel Dekker, NY. pp 279-292. 2001.
6. **Magee DM**, Cox RA. Vaccine development for coccidioidomycosis. In: The Mycota XII, Human Fungal Pathogens (eds Domer JE, Kobayashi GS) Springer Verlag, New York, pp 243-257. 2003.

### Patents

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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| August 2, 2005  | <p>United States Patent 6,923,973 Cox, et al.<br/>         Peptide and DNA immunization against <i>Coccidioides immitis</i> infections<br/>         Inventors: Cox; Rebecca A. (San Antonio, TX), Magee; D. Mitchell (San Antonio, TX), Jiang; Chengyong (San Antonio, TX)<br/>         Assignee: Board of Regents, The University of Texas System (Austin, TX)<br/>         Appl. No.: 10/081,935<br/>         Filed: February 22, 2002</p>                                            |
| March 11, 2008  | <p>United States Patent 7,342,101 Cox , et al.<br/>         Compositions and methods comprising a protective antigen of <i>Coccidioides immitis</i><br/>         Inventors: Cox; Rebecca A. (San Antonio, TX), Magee; D. Mitchell (Dallas, TX), Ivey; F. Douglas (Watertown, MA), Woitaske; Melanie D. (La Vernia, TX)<br/>         Assignee: The University of Texas System Board of Regents (Austin, TX)<br/>         Appl. No.: 10/985,853<br/>         Filed: November 10, 2004</p> |
| January 3, 2017 | <p>United State Patent 9,535,070 Saul et al.<br/>         High throughput detection of fusion proteins<br/>         Inventors: Justin Saul, Ji Qiu, Joshua Labaer, Mitch Magee, John Chaput, Sujay Sau<br/>         Magee, John Chaput, Sujay Sau<br/>         Assignee: Arizona Board Of Regents<br/>         Appl No: 14/073,332<br/>         Filed: November 6/2013</p>                                                                                                              |
| October 8, 2019 | <p>United State Patent 10,435,747 LaBaer et al.<br/>         Radiation Biodosimetry Systems<br/>         Inventors: Joshua Labaer, Kristin Gillis, Garrick Wallstrom, Jin Park, Vel Murugan, and Mitch Magee, John Chaput, Sujay Sau<br/>         Assignee: Arizona Board Of Regents<br/>         Appl No: 14/823,433<br/>         Filed: August 11/2015</p>                                                                                                                            |

## Teaching

1980 -1985	Laboratory Instructor: Diagnostic Bacteriology, Introduction to Microbiology, Medical Microbiology and Immunology, Fundamentals of Microbiology, Texas A & M University. College Station, TX
1986 - 1988	Physician Trainee Classes, Immunology Section, University of Pittsburgh, School of Medicine, Department of Medicine. Pittsburgh, PA
1987 - 1988	Medical Microbiology Laboratory for Medical Students, University of Pittsburgh, School of Medicine. Pittsburgh, PA
1989 - 1991	Pathogenic Bacteriology for Graduate Students, Coccidioidomycosis, University of Texas Health Science Center, San Antonio, TX
2000 - 2004	Freshman Periodontics Course General Immunology and Immunopathogenesis of Dental Disease (2 Lectures) University of Texas Health Science Center, San Antonio, TX
2000 - 2004	Immunology in Health and Disease Infectious Disease (3 Lectures); and Course Coordinator, 2003 University of Texas Health Science Center, San Antonio, TX
2000 - 2004	Medical Microbiology, Small Group Conference (10 Lectures) University of Texas Health Science Center, San Antonio, TX
2004 – 2004	Microbiology for Medical Students The University of Texas Southwestern Medical Center, Dallas, TX
2000 - 2003	Biomedical Core Course in Periodontal Graduate Program Immunology Review (2 Lectures) University of Texas Health Science Center, San Antonio, TX
2016 - 2018	Introductory Microbiology for Non Majors (MIC205) Arizona State University, Tempe, AZ
2017 -	General Biology 1 (BIO181) primarily online sections Arizona State University, Tempe, AZ
2018 -	Introductory Microbiology for Majors (MIC220) in person and online Arizona State University, Tempe, AZ

## Grants-Awarded

1987-1990	RO1 AI124141, Host Defense Mechanisms in <i>Listeria</i> Infection National Institutes of Health, Co-Investigator. \$ 225,611
1990-1991	91054-34-01, Role of T cells in Murine Coccidioidomycosis Institutional Research Grant - UTHSC-SA, Principal Investigator \$ 8,000
1996-2001	Regional Mycobacterium Tuberculosis DNA Fingerprinting Laboratory Centers for Disease Control, Co-Investigator. \$ 475,040
1996-2000	RO1 AI32134, Cellular Host Defense Mechanisms in Coccidioidomycosis National Institutes of Health, Principal Investigator. \$ 477,975
1998-2004	Development of a Vaccine against <i>Coccidioides immitis</i> California HealthCare Foundation (CHCF), Co-Investigator. \$ 2,229,990
2001-2002	Aerosol Exposure Chamber for Tuberculosis Vaccine and Therapy Testing San Antonio Area Foundation, Principal Investigator. \$ 38,000
2002-2003	Utility of the Syrian Hamster, <i>Mesocricetus auratus</i> , as a Model for Human Tuberculosis Howard Hughes Medical Institute, Principal Investigator. \$ 12,500
2004-2006	Immunization against Coccidioidomycosis by Sindbis Viruses Expressing <i>Coccidioides</i> Antigens



	San Antonio Life Sciences Institute, Co-Principal Investigator \$ 107,568
2005-2008	Discovery of Subunit Vaccine Candidates against Glanders Western Regional Center for Biodefense and Emerging Infectious Diseases, NIH, Co-Investigator \$ 705,473
2007-2008	Immunosignatures of Valley Fever Bio5-Biodesign Consortium, State of Arizona Principal Investigator \$ 150,000
2007-2008	Immunosignatures of Asthma Bio5-Biodesign Consortium, State of Arizona Co-Investigator \$ 150,000
2008-2009	Peptide Arrays for Antigen Identification and Diagnosis Western Regional Center for Biodefense and Emerging Infectious Diseases, NIH, Co-Investigator \$168,794
2010-2013	Discovery Platform for Cancer Antigens National Institutes of Health Co-Investigator \$1,431,000
2011-2014	Antibody Biomarkers for Early Detection of Tuberculosis National Institutes of Health Principal Investigator \$1,012,594
2011-2014	Developing a Pipeline for the Production of Bivalent Synthetic Antibodies to the Human Proteome National Institutes of Health Co-Investigator \$4,893,749
2011-2014	Molecular Regulation of Muscle Glucose Metabolism in Man National Institutes of Health Co-Investigator \$3,226,448
2011-2015	Biomarkers of Radiation Exposure HHS - Biomedical Advanced Research and Development Authority (BARDA) Co-Investigator \$31,200,000
2014-2015	Does <i>Mycobacterium tuberculosis</i> use cellular modIFICations to AMP up virulence? Biodesign Internal Seed Grant Co-Principal Investigator \$100,000
2014-2015	Protein Kinetics at Scale Biodesign Internal Seed Grant Co-Principal Investigator \$150,000
2015-2016	Does <i>Mycobacterium tuberculosis</i> use cellular modIFICations to AMP up virulence? Kleberg Foundation Co-Principal Investigator \$200,000
2015-2016	Chronic Rhinosinusitis – Investigational Model Development Flinn Foundation \$30,000
2016-2019	DNASU the Plasmid Materials Repository 2020 and Beyond National Institutes of Health

	Co-Investigator	
	\$1,200,000	
2016-2019	Discovery of Secreted Circulating and In Vivo Amplified Bacterial Antigens	
	Defense Threat Reduction Agency (DTRA)	
	Co-Investigator	
	\$800,000	
2016-2019	Search and validation of biomarkers for tuberculosis in Mexican patients with	
	diabetes mellitus	
	CIATEJ	
	Co-Investigator	
	\$157,000	
2016-2021	Host Biomarkers for <i>M. tuberculosis</i> Infection Activity in HIV-infected Persons	
	National Institutes of Health	
	Co-Investigator	
	\$50,000	
2017-2020	Characterization of Chronic Rhinosinusitis Microbiome-Host Interaction for	
	Microbiota Directed Probiotic Therapy.	
	Flinn Foundation	
	Co-Principal Investigator	
	\$300,000	
2020-2025	NIGMS National and Regional Resources - DNASU	
	National Institutes of Health	
	Co-Investigator	
	\$5,513,882	
2021-2025	Serological Biomarkers for Coccidioidomycosis	
	National Institutes of Health	
	Principal-Investigator	
	\$1,518,970	
2022-2024	Assay development and implementation to identify vaccine targets and evaluate complex	
	vaccines for bacterial infections	
	Defense Threat Reduction Agency	
	Co-Investigator	
	\$ 1,095,322	