Curriculum Vitae
Mitch Magee

Biographical

Name:	Dewey Mitchell (Mitch) Magee
Birthdate:	March 8, 1956
Birthplace:	Beaumont, TX
Spouse:	Carolyn Elisa Sturrock, Married August 5, 1978
Children:	Rachel Michelle, born March 15, 1983
	Christopher Orion, born March 5, 1986

Address: *Business*

Center for Personalized Diagnostics
The Biodesign Institute
Arizona State University
PO Box 876401
Tempe, AZ 85287-6401

Telephone (480) 727-0857
FAX (480) 965-3051
Email dmmagee@asu.edu

Home

2973 W. Comstock Drive
Chandler, AZ 85224

Telephone (480) 252-0741
Email mitch.magee@cox.net

Education and Training

Undergraduate:

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

Graduate:

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

Postgraduate:

1985 - 1987	University of Pittsburgh Department of Medicine School of Medicine Pittsburgh, PA 15213	Postdoctoral Fellow

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
2024 – present	School of Medicine and Advanced Medical Engineering Tempe, AZ 85287	Affiliated Faculty

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. Hou CW, Williams S, Trivino-Soto G, Boyle V, Rainford D, Vicino S, **Magee M**, Chung Y, LaBaer J, Murugan V. The omicron variant of SARS-CoV-2 drove broadly increased seroprevalence in a public university setting. PLOS Glob Public Health. 2025;5(1):e0003893. Epub 20250103. doi: 10.1371/journal.pgph.0003893. PubMed PMID: 39752417; PMCID: PMC11698426.
2. Hou CW, Williams S, Boyle V, Roeder A, Bobbett B, Garcia I, Caruth G, **Magee M**, Chung Y, Lake DF, LaBaer J, Murugan V. Tracking Immunity: An Increased Number of COVID-19 Boosters Increases the Longevity of Anti-RBD and Anti-RBD-Neutralizing Antibodies. Vaccines (Basel). 2025;13(1). Epub 20250112. doi: 10.3390/vaccines13010061. PubMed PMID: 39852840; PMCID: PMC11769131.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Yu X, Song L, Petritis B, Bian X, Wang H, Viloria J, Park J, Bui H, Li H, Wang J, Liu L, Yang L, Duan H, McMurray DN, Achkar JM, **Magee M**, Qiu J, LaBaer J. Multiplexed Nucleic Acid Programmable Protein Arrays. Theranostics. 2017;7(16):4057-70. Epub 2017/11/08. doi: 10.7150/thno.20151. PubMed PMID: 29109798; PMCID: PMC5667425.
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15. 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.
16. Mitchell NM, Sherrard AL, Dasari S, **Magee DM**, Grys TE, Lake DF. Proteogenomic Re-Annotation of Coccidioides posadasii Strain Silveira. Proteomics. 2017. Epub 2017/11/14. doi: 10.1002/pmic.201700173. PubMed PMID: 29130603.

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32. Borovkov A, **Magee DM**, Loskutov A, Cano JA, Selinsky C, Zsemlye J, Lyons CR, Sykes K. New classes of orthopoxvirus vaccine candidates by functionally screening a synthetic library for protective antigens. Virology. 2009;395(1):97-113. doi: S0042-6822(09)00556-X [pii] 10.1016/j.virol.2009.09.008. PubMed PMID: 19800089; PMCID: 2784938.
33. **Magee DM**, Friedberg RL, Woitaske MD, Johnston SA, Cox RA. Role of B cells in vaccine-induced immunity against coccidioidomycosis. Infect Immun. 2005;73(10):7011-3. doi: 73/10/7011 [pii] 10.1128/IAI.73.10.7011-7013.2005. PubMed PMID: 16177382; PMCID: 1230979.
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42. Jiang C, **Magee DM**, Quitugua TN, Cox RA. Genetic vaccination against *Coccidioides immitis*: comparison of vaccine efficacy of recombinant antigen 2 and antigen 2 cDNA. Infect Immun. 1999;67(2):630-5. PubMed PMID: 9916069; PMCID: 96365.
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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

August 2, 2005
United States Patent 6,923,973 Cox, et al.
Peptide and DNA immunization against *Coccidioides immitis* infections
Inventors: Cox; Rebecca A. (San Antonio, TX), Magee; D. Mitchell (San Antonio, TX), Jiang; Chengyong (San Antonio, TX)
Assignee: Board of Regents, The University of Texas System (Austin, TX)
Appl. No.: 10/081,935
Filed: February 22, 2002

March 11, 2008
United States Patent 7,342,101 Cox , et al.
Compositions and methods comprising a protective antigen of *Coccidiodes immitis*
Inventors: Cox; Rebecca A. (San Antonio, TX), Magee; D. Mitchell (Dallas, TX), Ivey; F. Douglas (Watertown, MA), Woitaske; Melanie D. (La Vernia, TX)
Assignee: The University of Texas System Board of Regents (Austin, TX)
Appl. No.: 10/985,853
Filed: November 10, 2004

January 3, 2017
United State Patent 9,535,070 Saul et al.
High throughput detection of fusion proteins
Inventors: Justin Saul, Ji Qiu, Joshua Labaer, Mitch Magee, John Chaput, Sujay Sau Magee, John Chaput, Sujay Sau
Assignee: Arizona Board Of Regents
Appl No: 14/073,332
Filed: November 6/2013

October 8, 2019
United State Patent 10,435,747 LaBaer et al.
Radiation Biodosimetry Systems
Inventors: Joshua Labaer, Kristin Gillis, Garrick Wallstrom, Jin Park, Vel Murugan, and Mitch Magee, John Chaput, Sujay Sau
Assignee: Arizona Board Of Regents
Appl No: 14/823,433
Filed: August 11/2015

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 – present	General Biology 1 (BIO181) primarily online sections Arizona State University, Tempe, AZ
2018 – present	Introductory Microbiology for Majors (MIC220) in person and online Arizona State University, Tempe, AZ
2024-– present	Medical Microbiology and Immunology School of Medicine and Advanced Medical Engineering. Tempe, AZ

Grants-Awarded

1987-1990	RO1 AI124141, Host Defense Mechanisms in *Listeria* 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 *Coccidioides immitis* California HealthCare Foundation (CHCF), Co-Investigator. $ 2,229,990
2001-2002	Aerosol Exposure Chamber for Tuberculosis Vaccine and Therapy Testing San Antonio Area Foundation, Prinicpal Investigator. $ 38,000

2002-2003 Utility of the Syrian Hamster, *Mesocrecitus auratus*, as a Model for Human Tuberculosis
Howard Hughes Medical Institute, Prinicpal Investigator.
$ 12,500

2004-2006 Immunization against Coccidioidomycosis by Sindbis Viruses Expressing *Coccidioides* Antigens
San Antonio Life Sciences Institute, Co-Prinicipal 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 *Mycobacterium tuberculosis* 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 *Mycobacterium tuberculosis* use cellular modiFICations to AMP up virulence?
Kleberg Foundation
Co-Principal Investigator
$200,000

2015-2016 Chronic Rhinosinusitis – Investigational Model Development
Flinn Foundation
$300,000

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 *M. tuberculosis* Infection Activity in HIV-infected Persons
National Institutes of Health
Co-Investigator
$30,000

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

2025-2028 Improving Serological Diagnostics for Valley Fever
Arizona Biomedical Research Centre
Principal-Investigator
$750,000