



DR. MOHAN MUVALA

● OPEN TO COLLABORATIONS & PARTNERSHIPS

Mohan Muvvala

DO, MBA · PHYSICIAN · ENTREPRENEUR · FUTURIST

Bridging Eastern preventive wisdom with Western neuroscience & the frontier of human performance.

● mohanmuvvala@archelife.com ● (408) 835-5808 ● Albuquerque, NM

PROFILE

Physician-founder with a **US patent in neurotechnology**, research spanning NASA space medicine to psychedelic psychiatry, and clinical leadership in integrative & osteopathic medicine. Building at the intersection of **brain science, preventive care, and the future of human performance** — on Earth and beyond.

01 VENTURES

Arche Health 2025 — Present

Founder & Lead Physician

Albuquerque, NM

Whole-person integrative practice combining evidence-based medicine with regenerative therapies — primary care, preventive medicine, weight management, and osteopathic manipulative medicine.

OMM

PRIMARY CARE

INTEGRATIVE MED

Neumynd Inc. 2019 — 2025

Founder & Chief Visionary Officer

Neurotechnology Venture

Non-invasive brain platform combining NIRS optical imaging, tDCS neurostimulation, and

04 EDUCATION

MBA — Entrepreneurship & Innovation 2020 — 2023

University of Illinois Urbana-Champaign

Focus: Entrepreneurship, Strategic Innovation, M&A.

DO — Osteopathic Medicine Class of 2020

Burrell College of Osteopathic Medicine

BS — Biochemistry & Neuroscience 2016

University of Tennessee-Knoxville

Majors: Biochemistry & Molecular Biology, Neuroscience. Minor: Psychology.

photobiomodulation to personalize treatments and reduce neuroinflammation. Awarded US patent.

NEUROTECH

NIRS

TDCS

US PATENT

Weirdos Inc.

2018 — 2022

Co-Founder & Executive VP

Tech startup for integrative lifestyle innovation. Co-authored a LECOM grant-funded Integrative Medicine Lifestyle Guide covering BP, cholesterol, diabetes, depression, and anxiety.

02 CLINICAL PRACTICE

Lovelace Hospital

Oct 2023 — Jun 2025

Attending Physician

Albuquerque, NM

University Hospitals Cleveland

2020 — 2023

Family Medicine Residency

Completed with concurrent Integrative Medicine Certification.

INTEGRATIVE MED CERT.

03 PATENT

US20200289054A1 · PUBLISHED SEPT 17, 2020

System and Method for Monitoring Brain Activity Using Near-Infrared Spectroscopy and Selectively Applying Transcranial Direct Current Stimulation and Photobiomodulation Therapy

05 RESEARCH

NASA Ames Research Center

2017

Space Medicine Researcher

Depressed metabolism as a mechanism for radiation damage prevention — foundational for long-duration spaceflight safety.

SPACE MEDICINE

RADIATION BIOLOGY

University Hospitals — Bedford & Richmond

2020 — 2023

Photobiomodulation & acoustic therapy on patient satisfaction. Nutritional medicine in primary care.

UT-Knoxville — Stress Resilience Lab

2015 — 2016

Metabolomics of stress resilience using Syrian hamster model. Multiple peer-reviewed publications.

METABOLOMICS

NEUROENDOCRINOLOGY

06 SPACE & LEADERSHIP

IAC 2023

Baku

"Sigma Fit Tech-Wear for Sustainable Colonies On Mars" (Co-author)

IAC 2023

Baku

"Building a sustainable, diverse and inclusive future for space exploration" (Co-author)

IAC 2022

Paris

"Space Radiation Safety for Female Astronauts" (Co-author)

IAC 2022

Paris

"Medical Ethics Of Long Duration Space Flight" (Co-author)

IAC 2022

Paris

"Correlation Between Audiological and Psychophysiological Stress Profile Among Astronauts" (Co-author)

SGAC

Space Generation Advisory Council Representative, IAC 2022 & 2023

2016–18

Co-Founded Student Osteopathic
Surgical & Medical Associations at
Burrell College

07 RECOGNITIONS

NM Space Grant

Student Doctor of the Year Nominee

Sigma Sigma Phi

JAOA Peer Reviewer

Admissions Consultant

08 PEER-REVIEWED PUBLICATIONS

01 *Mechanistic actions of psychedelics on neurogenesis: Rebuilding the tapestry of consciousness.*

Muvvala M, Sandhu H, Klein E. — J. of Psychedelic Psychiatry, 4(3), 2022

02 *Metabolomics reveals distinct neurochemical profiles associated with stress resilience.*

Dulka BN, Bourdon AK, Muvvala MBK, et al. — Neurobiology of Stress, 7:103–112, 2017

03 *Differential Gene Expression in Metabolically Suppressed Mice in Response to Radiation.*

Chen R, Muvvala M. — IEEE EMBC, 2018. DOI: 10.1109/EMBC.2018.8513624

04 *Winning agonistic encounters increases testosterone and androgen receptor expression in Syrian Hamsters.*

Morrison KE, Muvvala MBK, Cooper MA. — Hormones & Behavior, 86:27–35, 2016

05 *Dominance status alters restraint-induced neural activity in brain regions controlling stress vulnerability.*

Morrison KE, Curry DW, Muvvala MBK, Cooper MA. — Physiology & Behavior, 179:153–161, 2017

06 *Protective effects of Metabolic Suppression against life-threatening environmental conditions: Snail Model.*

Muvvala M. — NASA Ames Research Center, NASA/SP 219877, 2017

07 *Prolonged refractory dysphagia in polymyositis.*

Mathew T, Muvvala M, Sarma G, Nadig R. — CHRISMED J Health Res, 2:148–149, 2015

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MEDICINE

NEUROTECH

SPACE HEALTH

ENTREPRENEURSHIP