November 8, 2019

Memorandum

To: Dr. Jon Pennell, Chair
   Nevada State Board of Health

From: Tina Dortch, Program Manager
       Nevada Office of Minority Health and Equity (NOMHE)

Re: NRS.232.482 There is hereby created in the Office an Advisory Committee consisting of nine voting members appointed by the Department and State Board of Health.

In accordance with Nevada Revised Statutes (NRS) 232.482, it is the responsibility of the State Board of Health to appoint six members of the Nevada Office of Minority Health and Equity (NOMHE) Advisory Committee on Minority Health (i.e. AC), as detailed below:

1. The Director of the Department shall appoint three members who have an interest in health issues related to minority groups.

2. The State Board of Health shall appoint:
   a. Three members representing each geographic region of the State, including one member who resides in southern Nevada, one member who resides in northern Nevada and one member who resides in rural Nevada;
   b. One member who is a representative of a non-profit organization located in the state;
   c. One provider of health care in this state; and
   d. One member of the public at large.

3. One Legislator who is appointed by the Legislative Commission shall serve on the Advisory Committee in an ex-officio, nonvoting capacity.
As of this writing, three of the nine NOMHE Advisory Committee seats are currently vacant. By virtue of this correspondence, one candidate is being proposed to fill one of the vacancies. With this requested action (if approved), five of the six seats required to be filled by Board of Health appointments would be achieved. With this requested action (if approved), two of the nine NOMHE Advisory Committee seats remain open; one a Director of Health and Human Services appointment and one a Board of Health appointment.

NOMHE Staff Recommendation
Staff recommends that, effective with your ruling, the Nevada Board of Health appoint the following person to the Nevada Office of Minority Health and Equity Advisory Committee on Minority Health, to serve a two-year term:

- **Dr. Gillian Barclay** (Academic Health Center Specialist, UNLV – Office of the President)
  - Representative based in S Nevada (Board of Health appointment)

A copy of the candidate’s resume is attached and a matrix denoting a selection process which addresses statutorily required ethnic, geographic and professional diversity.

**Presenter**
Tina Dortch, Program Manager, Nevada Office of Minority Health and Equity
Executive-level leadership with 25+ years of experience building and transforming the organizations, programs, policies and partnerships to advance health and economic development in the United States (US) and abroad. Exhaustive knowledge of strategies to advance health and economic development in low and middle-income countries (LMICs), regional and local economies in the US. Strong expertise in approaches to structure organizations and engage staff to meet business objectives and organizational goals. Highly skilled in establishing collaborative and strategic relationships among private and corporate philanthropic, private sector entities, academic, government and non-profit stakeholders in the US and LMICs. Proven track record as an innovator and team leader dedicated to helping others grow professionally. A visionary leader and innovator with a personal commitment to life-long learning.

- **Visionary Leader & Strategist** – experienced establishing and championing bold strategies designed to move organizations forward, ignite passion and meet aggressive but achievable goals.
- **Alliances & Strategic Partnerships** – expert and politically-astute collaborator, spokesperson and advocate, building alliances and raising organizational profiles.
- **Staff & Values Alignment** – skilled at building systems, staff development and nurturing organizational cultures that bring all working parts – internal and external – into alignment to meet objectives.
- **Strategic Communications and Outreach** – expert building and nurturing strategic and mutually-beneficial alliances, promoting effective communication in multicultural environments,
- **Programs, Organizational Learning & Impact** – expert establishing innovative programs, operations, impact and learning systems, using evidence-driven knowledge to improve conditions and opportunities for those who are most vulnerable.

- Strategic Planning & Vision
- Health Equity
- Evaluation & Impact
- Business Strategy
- Strategic Communications
- Government Relations
- Private & Corporate Philanthropy
- Policy Development & Analysis
- Social Determinants of Health
- Governance & Compliance
- Budgets & Financial Management
- Board Engagement
- Health Systems Strengthening
- Economic Development
- Social Impact Investing
- Strategic Partnerships & Alliances
- Staff Development & Hiring
- International Relations

**LEADERSHIP EXPERIENCE**

**UNIVERSITY OF NEVADA, LAS VEGAS (UNLV), OFFICE OF THE PRESIDENT**– Las Vegas, Nevada

**Academic Health Center Specialist**

Responsible for the planning and coordination of the UNLV’s new Academic Health Center (AHC), as well as its growth strategy. Advise senior leadership on strategic, structural and operational matters and work on an overall plan for an integrated, collaborative AHC. Foster relationships within the business sector, community and other stakeholders to promote the value of the AHC. Work with the new UNLV School of Medicine through its transition to accreditation, including addressing operational, structural and strategic challenges related to its growth and leadership transitions.

Successes to date include;
- Secured the Small Business Innovation Research-Small Business Technology Transfer (SBIR-STTR) Biennial Federal Seed Fund Conference for April 2020. This 3-day regional conference will be co-led by the UNLV and the National Institutes of Health, with 8 other federal agencies attending.
- Second annual Nevada business symposium on Aging in Place- Smart and Connected Health scheduled for February 2020.
WIYZIP, LLC – Ann Arbor, Michigan

Global social enterprise building and supporting health and economic development in the United States (US) and Low and Middle-Income Countries (LMICs)

Founder and Board Chair 2015– present
Founder of global social enterprise dedicated to economic diversification in low and middle-income countries (LMICs) and the US. Lead diverse team of corporate, philanthropic and academic executive leaders to identify and grow social enterprises with Lean startup approaches to meet the United Nations Sustainable Development Goals (SDGs). Successes to date include:

- New local infrastructure in 3 LMICs using data and evidence-driven approaches to address social, health and economic priorities- led to the development of first SMART Academy in sub-Saharan Africa.
- Three sessions with policymakers in the US Virgin Islands on data and evidence-driven policy formulation for communicable diseases- led to new policies to use technology, data and analytics for surveillance, monitoring and response for zika, dengue and vector-borne illnesses in the US Virgin Islands.
- Inaugural leadership program launched to grow woman-owned technology and engineering social enterprises in Latin America and the Caribbean; Six 2-day technical assistance sessions in 4 LMICs on the nuts and bolts of Lean startups and social enterprises.
- Five interprofessional education and collaborative practice strategic sessions with LMIC health and tertiary education institutions as economic development strategies to meet the SDGs.
- Seven hubs planned in 4 LMICs with data and evidence-driven social enterprise digital technology solutions to meet the SDGs.

STATE OF NEVADA, GOVERNOR’S OFFICE OF ECONOMIC DEVELOPMENT (GOED)- Las Vegas, NV

(State governor’s office dedicated to multi-sectoral strategies to advance economic development for the state of Nevada)

Health Care Industry Specialist 2017– 2019
Brought in to catalyze state’s economic growth through new health sector investments. Advanced necessary and appropriate evidence-driven changes in law, regulation, policies or processes to stimulate health sector growth to improve economic and population health outcomes. Identified and led opportunities to incentivize new private industry investments in health to diversify and strengthen the state’s economic infrastructure. Served as external representative for audiences in academia, the private sector, philanthropy, governments and the non-profit sector. Successes included;

- Organized and led inaugural Nevada symposium on technology and biomedical research and development and product commercialization for the health sector.
- Four new state-level training programs for a 21st century workforce skills and competencies in the use of digital technology; new state programs in data analytics, telehealth, mobile health and health information systems to reduce the cost of care, strengthen health system infrastructure, and improve patient health outcomes
- Three new initiatives to test the use of unmanned autonomous systems in health including for emergency preparedness and disaster response; led to 2 new initiatives with smart solutions and data analytical approaches for transitional care and chronic non-communicable disease management.
- New policies to train the health and human services workforce for aging in place strategies in southern and rural Nevada; led to over USD$750,000 in new investments to improve transitional care, created 112 new jobs in southern Nevada.
- New approaches and stakeholder engagement for interprofessional education and collaborative practice; inaugural Nevada policy stakeholder meetings on interprofessional education and collaborative practice for primary care and behavioral health.
- Opportunities identified for R&D growth in Nevada; led to $1.75M in GOED investments to grow sports R&D in Nevada; led to 1 new training certificate for health R&D at UNLV.
- Served as the state’s external representative and spokesperson for health and economic development- led to new state stakeholder alliances with external stakeholders.

AETNA FOUNDATION – Hartford, Connecticut

(Corporate foundation supporting and funding local, national and international initiatives to improve health and wellness)

Vice President, Aetna Foundation 2010 – 2015
Provided the leadership that transformed the foundation’s organizational infrastructure and brand; led foundation’s organizational and programmatic strategic planning; expanded foundation’s profile and footprints domestically and abroad; conceptualized and led board-approved national and international program investments in digital technological innovations, reducing racial and ethnic health inequities, promoting quality health and community wellbeing, growing 21st century leadership for health; turned USD$18M of charitable giving into more strategic $18M funding investments. Successes included;

- Advised foundation board and corporate leadership on critical changes in the philanthropic and business landscapes- led to timely discussions and decisions to restructure funding investments and initiatives.
Vice President, Aetna Foundation (continued)  
2010 – 2015

- Established formalized budget and contracting procedures and managed foundation national and international budgets - resulted in a dramatic improvement in financial controls, legal compliance and due diligence requirements for USD$18M in strategic investments in the United States and abroad.
- Supervised the foundation’s balanced scorecard, and its alignment to overall organizational business metrics- led to comprehensive overview of foundation’s contribution to overall business accomplishments over a 5-year period.
- Developed strategic partnerships with private and corporate foundations, governmental, private and non-profit stakeholders-generated new partnerships with USD$7M in co-investments over 3 years for small business and policy solutions to reduce food insecurity; led to USD$2M tin co-investments o develop inaugural state survey in the US (Connecticut Health Care Survey) on quality health care and health equity; led to a shift in health system approaches to meet the Triple AIM goals by addressing racial and ethnic health inequities.
- Partnered with national and regional foundations on strategies to strengthen primary care infrastructure in the United States-led to partnerships with the National Academies of Medicine and the Association of Academic Health Centers for new policy-centered strategies to increase graduate medical education financing and expansion in the United States; led to new primary care-centered care coordination and integrated health care to reduce health disparities across 7 health systems in 6 states.
- Conceptualized and led leadership initiatives to address the social determinants of health- led to engagement of over 27 academic health centers resulting in strengthened infrastructure to address population health inequities; led to 35 underrepresented minority faculty fellows in tenured- track positions over 5 years; led to new interprofessional education and collaborative practice models across 14 health systems and 9 academic health centers.
- Conceptualized and led first ever US strategy in digital technology to reduce racial and ethnic health disparities- led to first national symposium on digital technology solutions to reduce racial and ethnic disparities in partnership with the National Academies of Medicine Science and Engineering; led to USD$7M in investments in Lean strategies to develop digital technology tools for chronic disease prevention and management in vulnerable populations in the US and abroad; established first US program for underrepresented minority faculty leadership in health technology with 32 fellows in partnership with the National Science Foundation.
- Supported strategic investments for White House Initiatives, Let’s Move and Partnerships for a Healthier America (PHA)- led to new cohort of foundation grantees over 3 years, specifically dedicated to support these initiatives, and Aetna employee engagement to support White House Let’s Move strategies.
- Hired staff, served as organizational mentor and coach, directed staff development opportunities- led to 3 staff members accepted into competitive national professional development programs; 3 Aetna Inc. business staff mentored and promoted into management roles.
- Spearheaded strategies with communications to scale and brand the work of the foundation- increased social media, television and radio presence; timely impact reports for 8 board meetings and 5 annual reports, over 50 external meeting presentations; 3 congressional briefings; 4 peer-reviewed journal issues; 3 books; 6 peer-reviewed articles; 3 magazine articles.
- Served as the foundation’s external representative and spokesperson for media events, audiences in philanthropy and the non-profit sector, business, government and academia.

PAN AMERICAN HEALTH ORGANIZATION/ WORLD HEALTH ORGANIZATION – Washington, DC
(Regional Office of the World Health Organization (PAHO/WHO)

Advisor, Health Systems Strengthening  
2006 – 2010

Brought in as an upstream policy advisor for new WHO regional office to advise government officials, policymakers and other stakeholders on development strategies for 15 low and middle-income countries (LMICs). Advanced evidence-driven changes in policies, processes and regulations to stimulate health sector growth to improve health and economic outcomes. Facilitated policy discussions and initiatives to strengthen regional and country health, education and social systems grounded in the determinants (income inequality, poverty, gender, human rights, geography, culture). Successes included:
- Optimized strategic planning sessions in partnership with WHO country and regional offices – legislatively-approved national health strategic plans with budget allocations for 10 LMICs; budgetary allocations legislated to build human resources capacity and infrastructure for health systems planning across 6 countries.
- Facilitated policy discussions to identify health and economic development priorities across 7 countries- led to new social sector policies for aging in place across 3 countries, new policies for the use of data to identify and address health disparities.
- Served as the PAHO-WHO organization co-lead in the Region of the Americas for interprofessional education and collaborative practice- led to new intersectoral policies in 5 countries to support interprofessional education and collaborative practice for chronic disease prevention and management; 2 new regional interprofessional programs for “aging in place”; emergency preparedness and disaster response; 2 new regional graduate degree programs in public health and health care management; one accredited school of medicine; one new academic health center and 4 new academic health departments.
Advisor, Health Systems Strengthening (continued) 2006 – 2010

• Spearheaded regional meetings to build leadership for health- led to signed regional collaborative agreements for leadership development across 15 countries to meet guidelines of the WHO Commission of the Social Determinants of Health, funding from the National Institutes of Health to build LMIC research and interprofessional education capacity in partnership with the Harvard Medical School.

• Led development of strategic partnerships among Canadian, US and UK donor agencies, LMIC government officials, business stakeholders – led to growth of new academic-business partnerships for new drug discoveries and technologies; 2 multilateral agreements for shared industry and human resources for health among 5 LMICs.

• Achieved technical assistance agreements between US-based and Canadian-based academic stakeholders and LMIC governments- ensured sustained strategies to strengthen public sector skills and knowledge to meet economic development goals across 4 LMICs; new policies and training models to integrate primary care and mental health services; new WHO Collaborating Center for Nursing.

• Built consortia with United States and European Union stakeholders, non-governmental organizations, universities, and private sector entities – led to 3 multinational meetings resulting in unified benchmarks to build LMIC leadership for health and economic development; led to USD$150,000 co-investments from the US National Institutes of Health and the UK Development Fund for International Development.

• Grew initiative in the region of the Americas to highlight global best practices for the social determinants of children’s health- successfully secured $100,000 in investments from the W.K. Kellogg Foundation; co-edited 2 peer-reviewed publications in partnership with the Centers for Disease Control and Prevention on US and global best practices to address the social determinants of children’s health.

• Led development of strategic approaches for global scaling and dissemination of best practice models for health and economic development across 3 LMICs- led to scaling of quality health care models in primary care, strategic business alliances for human and economic development, health workforce development, technology use to strengthen health systems and distance education.

• Served as external representative and spokesperson for audiences in government, business, academia, philanthropy, non-profit sector and other United Nations agencies.

W. K. KELLOGG FOUNDATION – Battle Creek, Michigan

(Private foundation with place-based, national and international funding to improve the wellbeing of children, their families and communities.)

Evaluation Manager, Health 2003 – 2006

Brought in for the foundation’s strategic focus to integrate policy-centered impact evaluation and systems approaches through then lens of racial and ethnic equity. Hired and supervised external evaluation consulting staff. Restructured and revised all impact evaluation processes and systems for over USD$85M in health and related cross-foundation funding investments. Presented updates at monthly board meetings, followed up on board responses and recommendations; developed strategic partnerships with other foundations, non-profits, private sector, government, non-governmental organizations and academia. Successes included:

• Aligned the foundation’s health programs and initiatives to policy-centered systems change models- led to over USD$20M annually of board-approved funding investments done through the lens of racial and ethnic equity; led to board-approved performance measurement frameworks aligned to organizational learning and business objectives.

• Developed and managed impact budgets and contracts for health and cross-foundation investments- led to adherence to financial due diligence and compliance, and timely financial updates for over USD$26M in annual program investments.

• Steered feasibility assessments for new health investment models- led to board-approved commitments of $3M annually for new mission-related investments on business innovations to reduce food insecurity through the lens of health equity; led to growth of new academic-business partnerships for innovations to reduce racial and ethnic health disparities across 8 states..

• Represented foundation in national stakeholder meetings in foundation’s core interest areas– led to board-approved partnership in 7-member national funder convergence with over USD$45M in initial combined investments to reduce food insecurity nationally.

• Conceptualized new strategies with national and local stakeholders to grow and improve health outcomes among tribal nations in the United States; led to inaugural investments to develop and expand the dental therapist model in partnership with the Alaska Native Tribal Health Consortium; led to enhanced approaches to use digital technology to improve education and clinical practice among low-income and vulnerable communities in the United States.

• Assessed prospective and current grantee capacity and infrastructure- led to partnerships with think tanks and community organizations with technical assistance delivered to over 70 grantees annually; led to timely decisions on grantee selections for new initiatives totaling USD$9M annually.
Evaluation Manager, Health (continued) 2003 – 2006

- Restructured and led the foundation’s programs to build leadership for academic health- led to over 60 leadership fellows and scholars within 4 national program offices and 10 academic health centers over 3 years; led to new interprofessional education and collaborative practice models to reduce racial and ethnic health and health care disparities.
- Hired and supervised all impact assessment consultants for health and cross foundation programs- over USD$4M invested with 11 think tanks and academic institutions annually; led to timely impact reports and improved organizational learning; led to identification and publicizing of the impact of over USD$60M of foundation’s investments over 3 years.
- Served as external representative and spokesperson for audiences in philanthropy, government, private and non-profit sectors and academia.

Additional previous experience includes senior strategic planning, program and business development, research and evaluation, teaching and clinical roles for:

Department of Health and Human Services/Health Resources Services Administration Region 1, Harvard School of Public Health, Dana Farber Cancer Institute, Brigham and Women’s Hospital, Channing Laboratory (Boston), Robert Wood Johnson Foundation, Detroit Medical Center, New York Hospital, University of the West Indies, City University of New York, National Institutes of Health.

EXPERT PROFESSIONAL RESPONSIBILITIES

Expert reviewer for:
The National Science Foundation, Arlington, VA, 2014- present
The National Institutes of Health, Bethesda, MD, 2014-present
The Council of Education in Public Health, Washington, DC, 2009- present
The Journal of Health Care for the Poor and Underserved, Johns Hopkins Press, Baltimore, MD, 2007- present
The Journal of the American Public Health Association, Washington, DC, 2005- present
The United States Department of Agriculture, Washington, DC, 2014-2015
The Aetna Foundation, Hartford, CT, 2010-2015
The W. K. Kellogg Foundation, Battle Creek, MI, 2003-2008
The Dentaquest Foundation, Boston, MA, 2001-2004

KEY CURRENT AFFILIATIONS AND BOARD APPOINTMENTS

Board Member – Hip Hop Public Health– Manhattan, NY
Editorial Board Member – Journal of Health Care for the Poor & Underserved, John Hopkins Press – Baltimore, MD
Nevada Commissioner – Western Interstate Commission for Higher Education– Boulder, CO
Member – American Public Health Association – Washington, DC
Board Chair – WYZIP, LLC - Ann Arbor, MI
Supervisory Faculty – Doctoral Degree in Business Administration, UWI– Jamaica, WI
Member – State of Nevada Graduate Medical Education Taskforce- Las Vegas, NV
Member – Advisory Committee, School of Public Health, University of Nevada – Las Vegas, NV
Member – Advisory Committee, School of Social Work, University of Nevada – Las Vegas, NV
Board Member – Nevada Chapter, Health Occupations Students of America – Carson City, NV
Board Member – Las Vegas HEALS (Health, Education, Advocacy, and Leadership)– Las Vegas, NV
Co-Chair - Global Affairs Committee, International Association for Interprofessional Education and Collaborative Practice (InterEd), Geneva, Switzerland
KEY PAST AFFILIATIONS AND BOARD APPOINTMENTS

**Member** – Advisory Committee, Kaiser Permanente Center to Build Leadership for Equity, University of California – Los Angeles, CA

**Member** – Advisory Board, Center for Innovation in Mental Health, City University of New York – Manhattan, NY

**Member** – Advisory Board, Harvard School of Dental Medicine – Boston, MA

**Member** – Consultant Working Group on HHS Data Access and Use, United States Department of Health and Human Services, National Committee for Vital and Health Statistics – Washington, DC

**Board Director** – Rebuilding Together – Washington, DC

**Member** – Advisory Board, Primary Care Policy Council, Connecticut Primary Care Innovation Center, Hartford, CT

**Member** – Roundtable on Population Health Improvement – Health and Medicine Division, National Academy of Sciences, Engineering and Medicine – Washington, DC

**Member** – Roundtable on Health Equity – Health and Medicine Division, National Academy of Sciences, Engineering and Medicine – Washington, DC

**Member** – Global Forum on Innovations in the Health Professions, Health and Medicine Division, National Academy of Sciences, Engineering and Medicine – Washington, DC

**Board Member** – National Education Association, Healthy Futures - Washington DC

**Member** – Association of Black Foundation Executives - New York, NY

**Member** – The Conference Board, Research and Evaluation Working Group - Manhattan, NY

**Board Member** – The Oral Health (Dentaquest) Foundation – Cambridge, MA

**Member** – Research and Evaluation Committee, The Medical Foundation – Boston, MA

EDUCATION

**Doctor of Public Health** – Harvard University- Boston, MA

Major Concentrations: Policy; Social Determinants of Health

**Master of Public Health** – University of Michigan- Ann Arbor, MI

Major Concentration: Health Behavior and Health Education

**Residency** – New York Hospital – Queens, NY

**Doctor of Dental Surgery** – University of Detroit Mercy – Detroit, MI

**Bachelor of Sciences** – University of the West Indies – Jamaica, WI

LANGUAGES

**English** – Fluent

**Spanish** – Conversant
December 2019
NOMHE Advisory Committee on Minority Health (Board Composition)
a Board of Health Recommended Appointment
submitted for consideration – December 6, 2019

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<tr>
<th>Name</th>
<th>Ethnicity</th>
<th>N NV, S NV or Central NV</th>
<th>Notable Interest in Health Issues Re to Minorities</th>
<th>Nonprofit</th>
<th>Healthcare Provider</th>
<th>Representative from Public at Large</th>
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<tr>
<td>Dr. Gillian Barclay</td>
<td>African American</td>
<td>Southern, NV</td>
<td>Academic Health Center Specialist, Office of UNLV President</td>
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<td>1</td>
<td>Cassandra Cotton</td>
<td>African American</td>
<td>Southern NV</td>
<td>Former NOMH Advisory Bd Mbr</td>
<td>Nathan Adelson Hospice and Donor Network</td>
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<td>Sam Lieberman</td>
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<td>Southern NV</td>
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<td>Andre Wade</td>
<td>African American</td>
<td>Southern NV</td>
<td>LGBTQ awareness, disparities, resources</td>
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<td>Erik Jimenez</td>
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<td>Northern NV</td>
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<td>Dr. Jennifer Kawi</td>
<td>Asian/Pacific Islander</td>
<td>Southern NV</td>
<td>Chronic Pain and Opioid Management</td>
<td>FQHC</td>
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DATE: November 14, 2019

TO: Dr. Jon Pennell, Chair
Nevada State Board of Health

FROM: Vickie Estes, Supervisor, Medical Laboratory Services
Bureau of Health Care Quality and Compliance

RE: NRS 652.170 (1), “Appointment, terms and qualifications of members: compensation of Members and employees.” The Board shall appoint members of the Medical Laboratory Advisory Committee.

In accordance with Nevada revised Statutes NRS 652.170 (4) (a-e), it is the responsibility of the State Board of Health to appoint the members of the Medical Laboratory Advisory Committee. The Medical Laboratory Advisory Committee is composed of: (a) Two Pathologists, certified in clinical pathology by the American Board of Pathology. (b) Two medical technologists. (c) One bioanalyst who is a laboratory director. (d) One qualified biochemist from the Nevada System of Higher Education (e) One licensed physician actively engaged in the practice of clinical medicine in this State. Per NRS 652.170 (2) & (3), members are allowed to serve two (2) consecutive terms for three (3) years.

The following members have expressed interest in serving on the Medical Laboratory Advisory Committee; we are requesting that the Board appoint the following:

Christie L. Elliott, M.D., NRS 652.170 (4) (a) who is a pathologist and the laboratory director at Renown Regional Medical Center Clinical Laboratory.

David P Marmaduke, M.D., NRS 652.170 (4) (a) who is a pathologist and the laboratory director at Sunrise Hospital and Medical Center Laboratory.
Gayle L. Petersen, MT ASCP., (To be reappointed) NRS 652.170 (4) (b) is a medical technologist and the laboratory manager at Laboratory Corporation of America in Reno.

Jill Brown, MLS (ASCP)., NRS 652.170 (4) (b) is a medical technologist and a laboratory supervisor at Northeastern Nevada Regional Hospital in Elko.

Alexander Stojanoff, Ph.D., NRS 652.170 (4) (c) who is a bioanalyst and the laboratory director at MD Labs in Reno.

Iain L. O. Buxton, PHMD., NRS 652.170 (4) (d) who is a biochemist & Doctor of Pharmacy (PHMD) at the University of Nevada School of Medicine.

Victor M. Muro, M.D., (To be reappointed) NRS 652.170 (4) (e) who is a physician actively engaged in the practice of clinical medicine in Nevada.

Of this writing, five of the seven seats are currently vacant and two of the seven are to be reappointed for a second term.

A copy of each member’s Curriculum Vitae is attached.

Presenter: Vickie Estes, MT (ASCP), Supervisor, Medical Laboratory Services
ALEXANDER STOJANOFF, PhD, MSc, HCLD
Résumé

EXECUTIVE MANAGEMENT
Biotech and Clinical Diagnostic Testing
Alexander Stojanoff, PhD, MSc, HCLD
6069 South Fort Apache Road, Suite 100 • Las Vegas, NV 89148
alexstojanoff@aol.com

EXECUTIVE MANAGEMENT
Biotech and Clinical Diagnostic Testing

Very passionate professional focused on all the concerns of individuals, families and communities so they attain, maintain or recover optimal wellbeing and quality of life from birth to end of life. Extensive experience in a variety of specialties as program director or as part of a team to assess, plan, implement and evaluate all arenas of medical care. Professional in the science and art of preventing disease, prolonging life and promoting health. Direct the overall operation and administration of the laboratory, including the employment of competent qualified personnel. Govern policies, processes, procedures, research, and resources needed to achieve consistent, high quality testing services. Masterful at integrating medical health information services, regulation compliance, medical education, cost control, and project management to achieve organizational goals. Develop, design, improve, and manage systems that create and deliver the organization's products or services. Ensure quality care for all, while maintaining credentials, code of ethics, standards and competencies, and continuing education. Provide academic, vocational, behavioral, and social education generating overall enrichment.

- Academic Instructor  
- Curriculum Design  
- Process Improvement  
- Health/Safety Programs  
- Financial Management  
- Found Businesses  
- Method Improvements  
- Hospital/Clinic/Lab/Field  
- Fertility/Toxicology/Pain  
- Pathology/Immunology  
- OB/GYN/Biochemistry  
- Infection/Disease Control  
- Multi-site Management  
- JC/HAO/CLIA/HIPAA  
- Budget Administration  
- R&D/Staff Supervision  
- Publish/Present Data  
- HR/Best Practices  
- C-Level Client Relations  
- High-Yield Profits  
- TQM/Lean Six Sigma

CAREER EXPERIENCE

CLINICAL LABORATORIES HOLDING COMPANY, INC; Las Vegas, NV 2008-Present
Provides its fertility centers with finance, HR, risk management, legal and sales support services

CEO and Laboratory Director

Key Accomplishments and Responsibilities
Established successful clinical management firm acquiring and growing fertility practices nationwide including clinical diagnostic and toxicology labs. CLIA Lab Director for: MD Labs,, Reno, NV #29D2032647, Nevada Advanced Pain Specialists, Reno, NV #29D2058647, Innovative Pain Care Specialists, Las Vegas, NV #29D2076312

Fertility Labs:
- Created a 7500-sq. ft. state-of-the-art reproductive fertility clinic in Fairfax, VA.
- Provide complete ambulatory surgery center operations conducting in excess of 200 invitro fertilization procedures and transfers annually.
- Established consistent, outstanding pregnancy rates (≥50%) for fresh and frozen embryo transfers for infertile couples.
- Increased year-over-year net profit 20% by initiating Internet, print, radio, TV campaigns.
- Liaison with teams ensuring support for corporate mission, vision, values, and objectives.
- Increased new patient volume and transaction price via new incentive programs.
- Initiated genetic testing – preimplantation genetic diagnosis and screening on older female patients and patients with multiple cycle failures.
Toxicology Labs:
- Established a 10,000-sq. ft. high complexity laboratory with emphasis on drug testing, metabolism and pharmacology in urine using EIA and LC-MS instrumentation.
- Setup high-tech main labs supporting testing menu encompassing over 40 analytes with more than 150,000 requisitions annually.
- Supervised, trained, mentored, and evaluated over 15 state licensed lab technologists.
- Validated for oral fluid (24-analytes panel) and initiated pharma genetics panel.

CONSOLIDATED LABORATORY SERVICES, INC; Las Vegas, NV 1997-2007

Provides clinical laboratory testing on human specimens, tissue, blood, urine, stool, sputum.

CEO and Laboratory Director

Key Accomplishments and Responsibilities

- Built successful, high complexity 24/7 clinical reference laboratory with multiple Las Vegas sites along with facilities in 3 other Nevada cities.
- CLS certifications: hematology, chemistry, immunohematology, diagnostic immunology, bacteriology, parasitology, and histocompatibility.
- Hired, mentored, and supervised up to 150 staff/management personnel.
- Created a 17,000-sq. ft. lab to support menu of 100 plus testing options; conducted over 500,000 tests with more than 50,000 requisitions annually.
- Generated preeminent market positioning achieving $4.5 million annually outproducing the largest lab worldwide.
- Drove YOY revenue 37% while improving lean management operational profit 21%.
- Initiated first national FDA-approved fertility screening testing program for all potential egg and sperm donors in the U.S.
- Initiated first Nevada successful mobile phlebotomy service and molecular lab testing facility.
- Created initial fetal fibronectin lab test in Nevada.
- Designated preferred testing lab for Nevada Donor Network.
- Positioned to acquire largest lab in the world – Sonic Health Care of Australia in 2007.

UNIVERSITY of NEVADA-RENO; Las Vegas, NV 1993-1997

School of Medicine is located next to 2 hospitals – one of which has the only Level I trauma center in Nevada

Scientific/Laboratory Director – Asst. Professor OBGYN Dept.

Key Accomplishments and Responsibilities

- Recruited specifically to established new IVF program for the university which encompassed all aspects of embryology and andrology.
- Instructed 50 one-three year medical students and 7 OBGYN residents.
- Applied expertise to Guadalajara, Mexico and obtained 55% pregnancy rate – highest ever for women under 35.

ALVARADO HOSPITAL and MEDICAL CENTER; San Diego, CA 1993

A 306-bed acute care hospital offering advanced, specialized healthcare services

Scientific/Laboratory Director

Key Accomplishments and Responsibilities

- Setup hospital's first IVF program and IVF lab; and managed all functions including staffing, training, quality control measures, SOP’s, and regulation compliance.
- Competed successfully with 5 other IVF programs in San Diego area; achieved exceptional pregnancy rates exceeding 40% overall.
FORMAL EDUCATION (all degrees are US accredited)

UNIVERSITY of MELBOURNE Victoria, Australia
Doctor of Philosophy Degree in Obstetrics and Gynecology
Bachelor of Science Degree in Pathology (w/Honors)

MONASH UNIVERSITY Victoria, Australia
Master of Science Degree in Obstetrics and Gynecology
Bachelor of Science Degree in Immunology and Biochemistry

LICENSURE/CERTIFICATION

American Board of Bioanalysis – High Complexity Laboratory Director
Nevada Laboratory State License
CLIA Laboratory Certificate of Compliance
Nevada Licensed Laboratory Director

PROFESSIONAL AFFILIATIONS

Society for Study of Reproduction
American Society for Reproductive Medicine
Fertility Society of Australia

PRESENTATIONS (select)

AAB College of Reproductive Biology’s Andrology and Embryology Review Course and Quality Assurance/Quality Control Workshop, ART Laboratories, Grapevine, TX (2004)
Workshop Director, Challenges toward the Year 2000, Micromanipulation Workshop, Las Vegas, NV
Alvarado Hospital Medical Center, Dr. Steven Brody, San Diego, CA (1993)
IVF Clinic, Director, Carl Hamilton, MD, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia (1992)
Department of Veterinary Physiology, Professor M. Mattioli, University of Bologna, Italy (1989)

PUBLICATIONS (select)

Detection of Sperm-Bound Antibodies, Australian Society of Immunology, Clarke, G.N., Stojanoff, A., Cauchi, M.N., Canberra, 1981, pp.73
Christie L. Elliott, M.D.

Work Experience

July 2008 – Present
Sierra Pathology Associates, Inc.
Surgical Pathologist
Staff Pathologist – Renown Regional Medical Center
Medical Director of Lab, 2013 - Present

Assistant Professor of Pathology
University of Nevada School of Medicine
Surgical pathologist & pathology instructor

September 2006 – June 2007
Christie L. Elliott, M.D., LLC
Independent contractor with Sierra Pathology Associates, Reno, NV
Surgical pathologist

July 2002 – August 2006
Forensic Pathology Consultants, Reno, NV
Forensic pathologist

Medical Directorships:

Renown Regional Medical Center Laboratory – 2013 to Present
Renown Rehabilitation Hospital – 2013 to Present

Training/Education

July 2001 – 2002
Fulton County Medical Examiner, Atlanta, GA
Forensic Pathology Fellowship

July 1996 – 2001
University of Colorado Pathology Residency, Denver, CO
Anatomic and Clinical Pathology Residency

August 1992 – May 1996
University of Nevada School of Medicine (UNSOM)
M.D. completed May 1996

August 1987 – May 1992
University of Nevada, Reno
B.S. in Pre-medical Studies, completed May 1991

Teaching Activities

2005 - present
Clinical Faculty – UNRSOM Dept. of Pathology (Clinical Associate Prof)

2002 – 2006
Guest lecturer
- UNSOM 2nd year class
- National Judicial College, Reno, NV

2002 – 2006
Provided hands-on instruction of 3rd & 4th year medical students rotating in pathology, paramedic & nursing students, and coroner trainees
Washoe County Coroner’s Office, Reno, NV

2003 – 2006
Noon conferences and Morbidity & Mortality conferences
UNSOM Internal Medicine Residency
2003 – 2006
Mentor for Carson High School Senior Project students

1997 – 2001
Lab instructor Pathology 6000 (2nd year medical students)
University of Colorado School of Medicine
Received Excellence in Teaching Award: 1997 thru 2001

Invited Lectures
“Who says the autopsy isn’t useful?”
UNSOM Internal Medicine Residency

“Forensic Pathology Primer”
Annual Scientific Evidence & Expert Testimony Course
National Judicial College, Reno, NV

“Meningitis mimicking shaken baby syndrome”
American Academy of Forensic Sciences Annual Meeting
Dallas, TX February 2004

Leukocyte-reduced Blood Products: Indications and Benefits. Colorado Society of Clinical Laboratory Sciences,
May, 1999

Continuing Medical Education lecture series for the University of Colorado at Boulder Student Health Services laboratory staff,
1996 – 1999

Licensures & Certifications
Nevada State Medical License – 2002 (Active)
California State Medical License – 2008 (Active)
Georgia State Medical License – 2001 (Inactive)

Board Certifications:
- Forensic Pathology – 2002
- Anatomic & Clinical Pathology - 2001
Professional Memberships

- American Society of Clinical Pathologists
- College of American Pathologists

Service

- Secretary of Staff, Renown Regional Medical Ctr, January 2018-present
- UNSOM Out of state admissions committee (3 years)
- UNSOM Mentor Program
- Teaching and mentor activities on volunteer basis

Publications

- Elliott, C, Thompson H. Transfusion protocols for optimized blood usage during orthotopic liver transplantation. ASCP Check Sample, Transfusion Medicine No. TM 01-1 (TM-245).

David P. Marmaduke, M.D.

Current Position: Chair, Department of Pathology and Laboratory Director, Sunrise Hospital Medical Center and Sunrise Children's Hospital Director, Point of Care Testing, Sunrise Hospital Medical Center Pathologist, Laboratory Medicine Consultants, Las Vegas, NV

Education
- **Hematopathology Fellow, University of New Mexico Health Sciences Center and Center for Molecular and Cellular Diagnostics, Albuquerque, NM**
- **Hematopathology Fellow and Baba Fellow of Pathology, The Ohio State University Hospitals, Columbus, OH**
- ** Resident in Anatomic and Clinical Pathology and Chief Resident (1993), The Ohio State University Hospitals, Columbus, OH**
- **The Ohio State University College of Medicine, Columbus, OH**

Board Certification
- **1996** Subspecialty certification in Hematology, American Board of Pathology (SQ-96-053)
- **1994** Diplomate, American Board of Pathology, Anatomic and Clinical Pathology (94-094)
- **1988** Diplomate, National Board of Medical Examiners (356965)

Licensure
- **2014-present** Alabama (SP. 91)
- **2008-present** Utah (6777760-1205)
- **2007-present** Arizona (37767)
- **2002-present** Nevada (10192)
- **2002-present** California (G86741)
- **1996-present** Maine (14402)
- **1994-present** Ohio (66478)
- **1994-present** New Mexico (94-320)

Professional Society Memberships Since
- **2002** Nevada Society of Pathologists
- **2002** Nevada State Medical Association
- **2002** The Clark County Medical Society
- **1996** American Society of Clinical Pathologists
- **1995** American Society of Hematology
- **1995** Society for Hematopathology
- **1992** United States and Canadian Academy of Pathology
- **1988** College of American Pathologists

Academic Appointments
- **1997-2002** Adjunct Professor, Department of Zoology, University of Maine, Orono, ME
- **1995-1996** Clinical Instructor III, University of New Mexico Health Sciences Center, Albuquerque, NM

Committee Appointments Since
- **2015-present** Cancer Committee, Sunrise Hospital, Las Vegas, NV
David P. Marmaduke, M.D.

2014-present  Medical Executive Committee, Sunrise Hospital, Las Vegas, NV
2008-present  Trauma Committee, Sunrise Hospital, Las Vegas, NV
2006-2010  Medical Laboratory Advisory Committee, State Board of Health for Nevada, Reno, NV
2004-2010  Chair, Infection Control Committee, Sunrise Hospital, Las Vegas, NV
2004-2012  Chair, Blood Usage Committee, Sunrise Hospital, Las Vegas, NV
2000-2002  Cancer Committee, Eastern Maine Medical Center, Bangor, ME
2000-2002  Trauma Committee, Eastern Maine Medical Center, Bangor, ME

Medical Directorships
2004-present  Medical Director, Point of Care, Sunrise Hospital, Las Vegas, NV
2004-2012  Medical Director, Blood Bank, Sunrise Hospital, Las Vegas, NV

Professional Experience
2014-present  Chair, Department of Pathology and Laboratory Director, Sunrise Hospital Medical Center and Sunrise Children's Hospital
2007-present  Laboratory Director, Comprehensive Cancer Centers of Nevada, 1505 Wigwam Pkwy, Suite 130 Henderson, NV 89074
2004-present  Laboratory Director, Parkway Surgery Center, Las Vegas, NV
2004-2008  Director, CORE Laboratory, Sunrise Hospital and Medical Center & Sunrise Children's Hospital, Las Vegas, NV
High complexity laboratory serving 700 bed community hospital and Children's Hospital
2003-2008  Laboratory Director, Surgery Centers of Southern Nevada, Las Vegas, NV
2000-2002  Laboratory Director, Chapman Laboratory, Millinocket Regional Hospital, Millinocket, ME
High complexity laboratory serving 50 bed rural hospital.
2000-2002  Laboratory Director, Inland Hospital, Waterville, ME
High complexity laboratory serving 50 bed urban Osteopathic hospital.
1996-2002  Pathologist, Dahl-Chase Pathology Associates, Bangor, ME
1996-2002  Medical Director, Flow Cytometry Lab, Dahl-Chase Diagnostic Services, Bangor, ME
State of the art lab performing complex flow cytometry studies including leukemia/lymphoma, immunodeficiency, minimal residual disease, peripheral stem cell quantitation and DNA ploidy analysis
1996-2002  Medical Director, Hematology Lab, Affiliated Laboratories Inc., Bangor, ME
High volume, high complexity hematology laboratory employing 22 medical technologists serving Eastern Maine Medical Center as well as multiple outside laboratories.
Pathology Society Offices Held

1999-2001  President, Maine Society of Pathologists
1990-1992  Ohio Delegate, College of American Pathologists Resident's Forum

Teaching Experience

1997-2002  Medical Director, Eastern Maine Medical Center Medical Technology Program, Bangor, ME
1994-1995  Med II Pathology Laboratory Instructor (Hematology), The University of New Mexico Health Sciences Center, Albuquerque, NM
1994-1995  Med I Pathology Laboratory Instructor (Phase I-1 and I-2), The University of New Mexico Health Sciences Center, Albuquerque, NM
1992-1993  Pathology 501 (Hematology), School of Allied Medical Professions, The Ohio State University Hospitals, Columbus, OH
1991-1993  Introduction to Clinical Medicine Tutorials, The Ohio State University College of Medicine, Columbus, OH
1991-1993  Med II Pathology Laboratory Instructor, The Ohio State University College of Medicine, Columbus, OH
1988-1993  Lecture Series, Allied Medicine 505 (Principles of Disease), School of Allied Medical Professions, The Ohio State University, Columbus, OH
1981-1982  Chemistry Teaching Assistant, DePaul University, Chicago, IL

Invited Plenary/Symposia Speaker

1999  Laboratory Diagnosis of Iron-related Disorders. Northeast Regional Joint Fall Conference, Portland, ME (October)
2000  WHO Classification of Acute Myeloid Leukemia/Myelodysplasia. Northeast Regional Joint Fall Conference, Portland, ME (September)
1999  Heparin-induced thrombocytopenia. Northeast Regional Joint Fall Conference. Portland, ME (September)
1997  Bone Marrow Evaluation. Maine Society for Histotechnology, Saint Joseph's Hospital, Bangor, ME (April)
1997  Hemolytic anemias. Dahl-Chase Pathology Hematology Network Seminar, Bangor, ME
1993  FcγRII interactions in heparin-induced thrombocytopenia. XIVth International Congress on Thrombosis and Haemostasis, New York, NY
1991  Cutaneous infections. South Central Association for Clinical Microbiology
David P. Marmaduke, M.D.
(SCACM), South Bend, IN

Lectureship

2000  Heparin-induced thrombocytopenia. Grand Rounds, Eastern Maine Medical Center, Bangor, ME (November)

1998  Flow Cytometry in Clinical Diagnosis. Pediatric Conference, Eastern Maine Medical Center, Bangor, ME (May)

1996  Clonality Studies in Histiocytic Disorders. Tumor Marker Conference, University of New Mexico Health Sciences Center, Albuquerque, NM

1996  Peripheral T-cell Lymphomas. Tumor Marker Conference, University of New Mexico Health Sciences Center, Albuquerque, NM (February)

Research Experience

1994-96  Application of the Human Androgen Receptor (HUMARA) Clonality Assay to Sinus Histiocytosis with Massive Lymphadenopathy (Rosai-Dorfman Disease). The University of New Mexico Cancer Center, Albuquerque, NM. Cheryl L. Willman, M.D.

1992-93  Interactions of the Platelet FcγRII Receptor with Heparin: Relationship to Heparin-Dependent Thrombosis. The Ohio State University Hospitals, Columbus, OH. John T. Brandt, M.D.

1992-93  Digital Morphometry of Prostatic Adenocarcinoma: Correlation with Ultrasound Volumetric Measurement, Serum Prostate Specific Antigen, and Clinical Stage. The Ohio State University Hospitals, Columbus, OH. William L. Marsh, M.D.

1981-83  Ontogeny of the Hypothalamo-Hypophyseal-Gonadal Axis in the Chick Embryo. DePaul University, Chicago, IL. James Woods, Ph.D.

Scholarships and Awards

1995  College of American Pathologists Scholar's Award ($25,000)
1995  American Cancer Society Clinical Oncology Fellow (COF95-107-1, $5,000)
1994  American Cancer Society Clinical Oncology Fellow (COF94-120-1, $10,000)
1988  Emmerich von Haam Pathology Award
1988  Department of Medicine Award

Publications

Original Articles


Textbook/Chapters

Marmaduke DP and Ayers LW. Infections of the central nervous system. In Textbook of Diagnostic Microbiology, Manuselis and Mahon, editors, W.B. Saunders, pp. 915-934, 1995

Abstracts


Dynamic, results-driven, interpersonal and organizational skills predict continued leadership success in the medical and technical field.

**Objective:** To remain a member of the Nevada State Advisory Committee.

**Professional experience:**

1977—Present Laboratory Corporation of America (“LabCorp.”)  
(formerly known locally as Sierra Nevada Laboratories)  
Over 40 years of health care experience and committed work at LabCorp, including, but not limited to, the below diverse positions and responsibilities:

2000 – Current Laboratory Branch Manager  
Overseeing multiple departments in Northern Nevada LabCorp facility as well as educating and inservicing doctors/clients on medical necessity requirements specific to the Medicare carrier. Laboratory Management, which includes all aspects of supporting good laboratory services to the community, includes working in Quality Assurance and Patient Service (Phlebotomy).

1995- 2000 Assistant Regional Manager of Business Development  
Successful targeting new business, maintaining client base and promoting new testing services. Accounts developed and maintained include Managed Care, IPAs, Hospitals, clinics and doctors.

1985 – 1995 Regional Service Manager  
Prior success in laboratory sales includes “good” business, which is defined as “obtaining reimbursement in a timely manner”. Successful management of Key Account Executives in Northern and Southern Nevada.

1980 – 1985 Marketing Representative  
Success includes establishing relationships, delivering service, selling laboratory services and competent working knowledge of lab regulations related to providing laboratory services.

1977 – 1980 Medical Technologist, MT ASCP  
Completed training, BS degree and boards in 1976. Areas of competency include Blood Bank, Chemistry, Hematology, Microbiology and L/S ratios. Successful Medical Technologist career at both Saint Mary’s Hospital Laboratory and Sierra Nevada Laboratories.

**Awards and Recognition:**

2012 Recipient of the LabCorp Chairman’s Award  
The LabCorp Chairman’s Award is the highest award LabCorp honors an employee. LabCorp is a nation-wide corporation and it bestows the LabCorp Chairman’s Award in annual recognition of an outstanding employee from across the country.

Prior active member of Kiwanis and Key Club mentor.

Prior active educator and mentor for Child Assault Prevention (CAP)

**Education:**

1974 & 1976 University of Nevada Reno, Nevada  
Bachelor of Science in Premedical, Bachelor of Science in Medical Technology.

**Professional memberships:**

2012 – Current Member of American Society of Clinical Pathologists (ASCP)
Objective  To serve on the Medical Laboratory Advisory Committee

Background Summary  Laboratory supervisor with extensive experience in directing, supervising and coordinating technical functions and activities in all clinical areas of a small rural hospital laboratory. Related areas of expertise are:
- Medical staff consults
- Investigation of new equipment or methodologies
- Management of point of care and proficiency testing
- Establishing and implementing policy and procedure
- Maintaining compliance with current accreditation and regulation requirements

Experience

Northeastern Nevada Regional Hospital  Since 1985
General Supervisor

College of Southern Nevada  Since 1999
Part-time Phlebotomy Instructor

MLAC member  2000-2006
2008-2014

Reference

George Mardini, MD
Medical Director
Northeastern Nevada Regional Hospital
2001 Errecart Blvd.
Elko, Nevada 89801
Victor M. Muro, M.D.

OptumCare Primary Care
56 N. Pecos Rd. Ste B
Henderson, NV 89052

Education
- Undergraduate
  University of California – San Diego
  Graduated B.A., Biochemistry and Cellular Biology
- Graduate
  San Diego State University
  School of Public Health
  Coursework for MPH., Epidemiology and Biostatistics
- Medical School
  UCLA School of Medicine
  Attend from September 1987 to May 1991
  Medical Doctorate in May 1991
- Internship
  Los Angeles county – USC Medical Center
- Residency
  Los Angeles County – USC Medical Center
- Fellowship - General Internal Medicine
  California 1994-1995

Appointments/Positions
- 9/2015  Nevada Board of Medical Examiners
- 9/2016  Nevada Board of Medical Examiners Investigative Committee

Employment History
- 1/2015 – Present  OptumCare Primary Care, Medical Director
- 3/2016 – Present  Neighborhood Program, Medical Director
- 1999 - 2015  Jacobs & Modaber/CareMore Medical Group
- 1996 - 1999  Physician Century Medical Group
- 1994 - 1996  Director of Ambulatory Services, Department of Medicine
  Los Angeles County, USC Medical Center
- 1994 - 1996  Assistant Professor, Department of Medicine
  Los Angeles County, USC Medical Center
**Iain L. O. Buxton**

*Regents Professor 2011; Foundation Professor 2013*

Curriculum Vitae

**ADDRESS**

Department of Pharmacology  
Howard Building 166, Mail Stop 318  
University of Nevada School of Medicine  
1664 N. Virginia Street  
Reno, Nevada 89557  
Office Phone: (775) 784-4800  
FAX: (775) 784-4800; Email: ibuxton@med.unr.edu

**EDUCATION**

Bachelor of Arts, (BA) University of California, San Diego  
1972, Major: Cell and Molecular Biology  
PhD Graduate Studies, Biochemistry Graduate Program  
1975 Major: Enzymology, (PhD pgm.) North Carolina State, Raleigh, NC  
Doctor of Pharmacy, (PHMD), University of the Pacific,  
1978, Major: Pharmaceutical Sciences  
Licenses: RPh, CA License CS12899 (inactive); US DEA RB0387402 (active)

**EXPERIENCE**

President and CEO, ExCyte Therapeutics, a Nevada Corporation developing basic research discoveries into new treatments to help patients.  
7/2015-Present

President, Western Pharmacology Society, Registered non-profit 501(c)3.  
5/2010-Present  
Foundation Professor

President, Campus Pharmacy Corporation, University of Nevada School of Medicine  
4/2013-Present  
7/2014-1/31/18

Chair, Department of Pharmacology  
2/2011-12/2017

Dean (Planning and Implementation) University of Nevada School of Pharmacy  

Director, UNR Center for Advanced Studies  
5/2010-7/2012

Professor, Department of Pharmacology, University of Nevada School of Medicine, Reno, NV  
7/1995

Professor, Department of Obstetrics & Gynecology, University of Nevada, Southern Campus, Las Vegas, NV  
12/2001

President, Pharmaceutical Education and Research Foundation of Nevada (A Nevada Non-Profit Corporation; 501 c3)  

Adjunct Professor, Nevada Cancer Institute, 10000 W. Charleston Blvd. Suite 260, Las Vegas, NV  
6/2003-2009

Director, School of Medicine Performance Compensation Plan  
7/1995-6/2014  
University of Nevada School of Medicine, Reno, NV
EXPERIENCE (continued)
9/2001-7/2003  Director, Biochemistry Graduate Program, University of Nevada, Reno, NV; Interdisciplinary Program; Colleges of Agriculture, Arts & Science and Medicine
7/1997-6/2002  Faculty Director, University of Nevada Flow Cytometry Laboratory
               University of Nevada School of Medicine, Reno, NV
1/1998-7/2001  Co-Chair, President’s School of Pharmacy Task Force
7/1996-1/1998  Associate Dean for Research & Director, Office of Medical Research
               University of Nevada School of Medicine, Reno, NV
4/1993-6/30/96  Assistant Dean for Research & Director, Office of Medical Research
                University of Nevada School of Medicine, Reno, NV
4/1989-4/30/95  Director, Tissue, Cell and Tissue Culture Research Core, UNR
                Program Project in Colonic Motility
7/1989-6/30/95  Associate Professor (with tenure), Department of Pharmacology,
                University of Nevada School of Medicine, Reno, Nevada
4/1985-6/1989  Assistant Professor, Department of Pharmacology University of Nevada School of Medicine, Reno, Nevada
5/1984-4/1985  Assistant Research Pharmacologist, Department of Medicine,
                Division of Pharmacology, University of California, San Diego
5/1981-5/1984  Postdoctoral Fellow with Dr. L.L. Brunton, Department of Medicine,
                Divisions of Pharmacology & Cardiology, U.C. San Diego
7/1980-2/1981  Clinical Pharmacist, Veterans Administration Medical Center,
                San Diego, California  
                Supervisor: Drug Information Section  
                Head: Investigational Drug Studies Section
7/1979-6/1980  Clinical Fellow, Veterans Affairs Medical Center, San Diego, CA
7/1978-6/1979  Clinical Resident, Veterans Affairs Medical Center, San Diego, CA
9/1974-7/1975  Research Associate with Dr. H.L. Leffert, Cell Biology Laboratory,
                Salk Institute for Biological Studies, La Jolla, California
7/1973-8/1974  Research Associate (PhD Program) with Dr. R.A. Main,
                Biochemistry Dept. North Carolina State University, Raleigh, NC
7/1972-6/1973  Research Assistant with Dr. R. Holley, (Nobel ’68), Cancer Biology
                Laboratory, Salk Institute for Biological Studies, La Jolla, CA

TEACHING EXPERIENCE
4/1985-Present  Faculty in Pharmacology, University of Nevada, School of Medicine
5/1981-5/1985  Laboratory instruction of UCSD Physiology/Pharmacology Program
                Medical and Graduate Students
9/1978-5/1981  Adjunct Clinical Instructor, University of the Pacific School of Pharmacy, Clinical Clerkship Program, San Diego Region
9/1978-5/1981  Adjunct Clinical Faculty, University of Southern California Clinical Internship Program, San Diego Region
TEACHING EXPERIENCE (continued)

8/1975-6/1977  Teaching Assistant, University of the Pacific, Stockton, California.
               Biochemistry Lab (Dr. F. Sayre). Cell & Tissue Culture (Dr. D. Pace)

Current BOARDS

   President Elect and Member of the Board, American Heart Association, Nevada Chapter,
   Western States Affiliate

Past BOARDS

   Member of the Board, Integrated Clinical Services, University of Nevada School of Medicine
   Clinical Practice Plan
   Voting Member, Southern Regional Executive Committee (2010-2017)
   Voting Member, Northern Regional Executive Committee (2010-2017)
   Treasurer, Northern Regional Executive Committee (2017)

EDITORIAL EXPERIENCE

Editor-in-Chief, Proceedings of the Western Pharmacology Society [ISSN: 0083-8969]. Elected
2/1/2003; to 6/30/2012. Responsible for reviews, editing and publication of the annual Proceedings
of the Society.

Handling manuscript reviews in the area of clinical pharmacology.

Editorial Board Member; Journal of Signal Transduction [ISSN: 2090-1739; eISSN: 2090-1747].

Associate Editor (2004-2008), Access Medicine; Goodman & Gilman for on-line pharmacology web-
based text of the 11th Edition of Goodman & Gilman’s Pharmacological Basis of Therapeutics, McGraw-
Hill Publishers.

Author/Editor, “Goodman & Gilman’s Manual of Pharmacology and Therapeutics” Student text book in

The Dynamics of Drug Absorption, Distribution, Action and Elimination and Appendix I: Principles of
Prescription Order Writing and Patient Compliance.


For the 12th Edition: Buxton, I.L.O. Appendix 1, Principles of Prescription Order Writing and
Patient Compliance. In: Goodman and Gilman’s The Pharmacologic Basis of Therapeutics. 12th

For the 13th Edition: Buxton, I.L.O. Chapter 2, Pharmacokinetics. and Appendix 1, Principles of
Prescription Order Writing and Patient Compliance. In: Goodman and Gilman’s The
New York.
MAJOR ACADEMIC PROJECTS

Planning Dean, University of Nevada, School of Pharmacy. Lead role in planning for curriculum, staffing, budget, recruitment and governance. Proposal to include UNR and UNLV as equal partners in a statewide program granting the PharmD degree. Presented to and approved by the Regents of the NSHE August 2000, and again in 2004. The school remains unfunded due to the down-turn in the Nevada economy and will require future legislative action.

President, University of Nevada Campus Pharmacy Services. Supervision of pharmacy business and clinical operations for the School of Medicine.

FORMAL TEACHING ACTIVITIES

Medical Pharmacology (Block Curriculum) Content Coordinator: Core basic science course in the MD curriculum taken in the spring semester of the sophomore year. Seventy-two students per year are taught in both the lecture and problem-solving small group format in the blocks in both years one and two that total one-hundred-fifty hours of instruction. Dr. Buxton is the content coordinator and teaches in several sections of the course; Basic Principles, Pharmacokinetics, Autacoids and Eicosanoid Pharmacology and NSAID Pharmacology, Toxicology, Drug side effects. Dr. Buxton also provides therapeutic correlation of basic science in pharmacology for Diabetes, Rheumatoid Arthritis, Gout, Hypertension and Drugs in the Elderly. Dr. Buxton’s student evaluations are in the excellent range from 4.3 to 4.5 on a 1-5 scale. Dr. Buxton has been given an evaluative rating of Excellent in teaching continuously since first presenting lectures to medical students in Nevada in 1985.

Molecular Pharmacology (PHAR 710) Course Coordinator from inception till 2013: Fall semester, three units. Course details the development of our current understanding of receptor signal transduction in mammalian systems. Designed for graduate students earning the PhD and interested in careers in biomedical research and development in academia or industry. The course focuses on the molecular biochemistry of receptor structure; mass action considerations governing ligand-receptor binding interactions; molecular pharmacology of transduction of the receptor signal and specific considerations of receptors as pharmaceutical targets.

Reproductive Pharmacology (PHAR 770): Spring semester, three units/semester; graduate student lectures and discussion in placental organization and function, parturition and problems of Pregnancy.

Medical Student Clerkship (MED 651): Basic Science Correlations. Mentoring for medical students in the third year during their OB/Gyn clerkship. One student in 2019.

Molecular Cell Biology (CMB 710): Spring semester, four units. Advanced studies of the structure and function of cells provided for PhD students in Cell & Molecular Biology, Cell & Molecular Pharmacology and Physiology, and Biochemistry Graduate Programs. Dr. Buxton contributes lectures in Receptor Signal Transduction during eight hours of lecture.

Cancer Biology (Micro 787): Fall semester, three units. Contributing lectures in the area of metastasis and angiogenesis in the invasion and progression of breast and other human cancers.

Experimental Biochemistry II (BCH 702): Fall, Spring and Summer semesters, three units/semester. Graduate student laboratory rotation in preparation of dissertation research for the PhD degree. Dr. Buxton is both mentor and instructor of record providing students with research experience and advising students on the selection of rotation experiences.

Senior Thesis (BCH 407-408): Fall/Spring (3+3 units). Laboratory research project required of undergraduate biochemistry majors (capstone course). Students participate in current research projects and prepare abstracts and research papers of their work as appropriate.
FORMAL TEACHING ACTIVITIES (continued)

Cellular and Molecular Pharmacology (PHAR 799): Fall, Spring and Summer semesters, eight units/semester; one student in 2019. Teaching of PhD candidates in the laboratory.

Dissertation (BCH 799; CMB 799): Fall, Spring and Summer semesters, eight units/semester. Teaching of PhD students in the laboratory.

PAST COURSES

Introduction to Human Pharmacology (PHAR 400/600): Spring semester, three units. Undergraduate elective for BS students in the sciences taught by Dr. Buxton (47 hours; selected years). The Introduction to Human Pharmacology course addresses the basic scientific principles that govern the disposition of drugs in the body, the fundamental principles that determine the action of drugs on specific cellular and non-cellular targets and details the mechanism of action(s) and therapeutic usefulness of specific agents associated with particular organ systems or diseases. Though based on the lecture format, self-directed learning and group discussions are employed to permit the most effective and enjoyable format for learning. The class benefits students interested in the health professions such as pharmacy, medicine or nursing as well as graduate study in the areas of pharmacology and physiology.

OB/Gyn Residency: Basic Science Correlations: Year-round required course. Dr. Buxton serves as consultant to residents on the basic science aspects of required reading and preparation of resident presentations.

RESEARCH ACTIVITIES

Regulation of Contraction Associated Targets in Myometrium by S-Nitrosation

Discovery of the molecular mechanisms subserving human uterine quiescence during pregnancy and their dysregulation in spontaneous preterm labor is the objective of my research. We are testing the hypothesis that failure of preterm human myometrium to relax to nitric oxide (NO) is the result of dysregulated S-nitrosation of specific smooth muscle contractile proteins.

Our long-term goal is to find new effective tocolytics to treat women who enter labor too soon. Preterm labor leads to preterm delivery, a global problem accounting for 75% of fetal morbidity and mortality. No drugs reliably prevent labor in patients who enter labor preterm, thereby allowing their pregnancies to go to term. Therapeutic approaches to manage spontaneous preterm labor (SPTL) are employed without clear evidence of benefit for acute or maintenance tocolysis.

NO-mediated relaxation of myometrium is cGMP-independent. Preterm myometrium fails to relax to NO. Discovering the mechanism of action of S-nitrosated contractile proteins can suggest new therapeutic targets to manage SPTL. We propose that gestational quiescence until term results from regulated post-translational S-nitrosation of myosin light chain kinase (MLCK), the regulatory light chain (MYL9) and profilin-1 (PFN1). Addition of NO relaxes term, but not preterm laboring tissues as a result of S-nitrosation differences that alter the function of these CAPs in SPTL.

We have also proposed that in women, uterine quiescence during gestation until term is the result of regulated S-nitrosation of connexin 43 (Cx43) following endogenous, regional production of S-nitroso glutathione (GSNO). GSNO relaxes term, but not preterm laboring tissues as a direct result of decreased Cx43 S-nitrosation due to increased GSNO reductase activity that results in altered connexin hemichannel activity.

Discovering the effect of regulated S-nitrosations on the mechanism of contractile protein action in term tissues, term tissues from patients in labor and in SPTL (with controls for gestational timing, tocolytic and antenatal steroid use, infection, and gestational length) will establish whether or not NO is an endogenous relaxation signal. Comparison of this S-NO fingerprint with that measured following
relaxation of the tissue by NO addition in each pregnancy state is novel because SPTL is not simply early labor, will likely be influenced by infection and/or gestational length and because NO-induced relaxation of spontaneous and oxytocin-induced contractions of preterm myometrium is blunted. S-nitrosation differences between labor and SPTL point to altered quiescence mechanisms. Completion of this research will suggest therapeutic strategies for the treatment of SPTL such as the S-nitrosoglutathione reductase that regulates S-nitroso protein levels and is known to provide therapeutic benefit in asthma and for which an inhibitor is in development.

**Stretch-Activated 2-pore Potassium Channels in Preterm Labor.** In 2005 our lab was the first to discover expression of two stretch-activated potassium channels, TRAAK and TREK-1 in human myometrium and demonstrated that the TREK-1 channel is gestationally regulated. We were funded for this work by the March of Dimes and the Bill and Melinda Gates Foundation (the first gates Research Grant ever awarded at UNR). The objective of this research is to contribute to an understanding of the probable cause(s) of preterm labor in some women that may possess dysfunctional TREK-1 channels. Preterm birth remains a significant health issue in industrialized nations accounting for 12.5% of all live births in the United States and 80% of all perinatal complications and death. The incidence of preterm birth is unacceptably high. Tocolytic agents do not work. Prematurity costs over 30 billion annually and causes unacceptable morbidity and mortality. We must better understand the physiological mechanisms of pregnancy in women if we are to discover new approaches to the treatment of preterm labor.

The stretch-activated channels make up a unique subset of K+ channels that are mechano-sensitive and belong to a family of channels characterized by four transmembrane segments and two pore (2P) domain regions. TREK-1 (TWIK-related K+ channel), and TRAAK (TWIK-related arachidonic acid-stimulated K+ channel) channels are activated by free fatty acids, nitric oxide and increased membrane tension, each of which occur with pregnancy. These channels play an essential role in setting the resting membrane potential of the muscle cell. Thus, the possibility that TREK-1 is involved in the maintenance of relaxation of the human uterine smooth muscle prior to the onset of labor is of interest and we have discovered genetic variants of the channel in women that deliver preterm. These gene variants encode channels that are non-functional and dimerized with full-length TREK-1 leading to blockade of the TREK-1 current.

We hypothesize that SAK channels are gestationally regulated and maintain uterine quiescence prior to the onset of labor. Thus, activation of these channels by stretch, nitric oxide and/or arachidonic acid or its metabolites during pregnancy maintains hyperpolarization of the uterine smooth muscle helping to sustain relaxation and thereby prevent organized contractions. In women who commence labor too soon with the absence of premature rupture of membranes or intrauterine infection, there is a failure of TREK-1 based on the expression of variant channels that are non-functional, dysregulated or uncoupled and thus, pro-contractile forces cannot be overcome.

**Origins of Uterine Dysfunction.** While studying the functional effect of cholesterol withdrawal from uterine smooth muscle we discovered that the uterine muscle is activated by this treatment while other smooth muscle is depressed. Cholesterol overloading resulted in depression of myometrium. This result suggested the possibility that dysfunctional labors that occur in obese women may be the result of hypercholesterolemia. Labor progression is delayed in obese women and associated with complications and use of oxytocin (OT). We treated guinea pig myometrium to remove cholesterol expecting suppression of spontaneous activity and uncoupling of agonist specific relaxation as has been demonstrated in other muscles. Treatment of myometrium with 15 mM β-MeCD however led to enhancement of spontaneous activity that was further increased following a second β-MeCD treatment. This result was unexpected. Our findings suggest that cholesterol selectively uncouples relaxation signaling. We propose that suppression of myometrial activity by hypercholesterolemia may be the mechanism underlying uterine dysfunction in obese women.
Regulation of Breast Cancer-mediated Angiogenesis. This project has been funded by the Clayton Foundation for Research and the Congressionally Directed Medical Research, Breast Cancer Program, and the Women’s Health Research Grant Program. The goal of our research is to delineate the role of extracellular Nucleotide Diphosphate Kinase (NDPK/NM23) and its regulation of nucleotide levels in human breast cancer angiogenesis. Human breast cancer cells secrete exosomes, minute membrane encapsulated vesicles that contain a factor that supports the growth, differentiation, and permeability of endothelial cells in vitro consistent with a pro-angiogenic potential that subserves breast cancer metastasis. Using LC-MS/MS proteomic methods, we discovered that human breast cancer cell exosomes contain NM23. We have identified a pharmacophore for the development of inhibitors of this enzyme factor (NDPK) and find these compounds to be anti-angiogenic. Learning how exosomal NDPK and its regulation of extracellular nucleotides, blocked by catechin gallates, can induce breast cancer angiogenesis will reveal new therapeutic targets in the treatment of breast cancer and its lethal metastatic spread. Extracellular purine nucleotides have recently emerged as a novel class of proliferative agents with a putative role in cancer and angiogenesis. Our data demonstrate that P2Y receptor activation promotes a significant pro-angiogenic response by transactivating the VEGF receptor. Coupled with our discovery of the generation and action of nucleotides in the blood stream, The Nucleotide Axis Hypothesis, progress on the aims described here may help explain aspects of cancer metastasis heretofore unrecognized. Progress on this work has appeared in the British Journal of Cancer, Cancer Letters, Cancers, and a patent has been issued.

In collaboration with Closef, we discovered that the methyl transferase EZH2, the transcription factor NFκB and the long non-coding RNA, NKILA are linked functionally and this led us to hypothesize that their interaction could impact patient responses to EZH2 inhibitors suggesting the development of novel therapeutics for NFκB-mediated metastasis. Our preliminary results suggest the incorporation of glycemic regulation to combat the harmful effects on noncancerous breast epithelial cells following delivery of these adjuvants. The findings from the study will be significant because they will lead to improved treatment for breast cancer patients that reduces adverse side effects while maximizing the efficiency of EZH2 inhibitors in patients with high BMI (>30) and type-2 diabetes (T2D).

EXPERT WITNESS ACTIVITIES

Dr. Buxton is an experienced expert in the field of medical pharmacology and has served as an expert in cases ranging from wrongful death to testamentary capacity, capital murder, and medical malpractice. Dr. Buxton has expertise in both the scientific and regulatory aspects of pharmaceutical and medical practice including pharmaceutical compounding, active ingredient solubility and storage; evidence-based medical practice, actions of drugs in the human body, their therapeutic, unwanted, adverse and toxic effects and outcomes, the pharmacogenomic basis of adverse drug reactions and standard of care in medicine and pharmacy.

Recent Cases:

In 2017, Dr. Buxton was retained to offer testimony to the California State Board of Appeals in a criminal matter involving wrongful death and violence caused by prescription medication.

In 2013 and 2014, Dr. Buxton provided expert witness services in litigation in Nevada involving pharmacy training, staffing, compensation, and disciplinary practices that contribute to pharmacy errors that harm patients.

In 2012 and 2013, Dr. Buxton provided expert witness services for the defense looking to avoid the death penalty in a double homicide case involving the use by the defendant of synthetic cannabinoids.

In 2012, Dr. Buxton provided expert witness services to defendant’s attorney in a medication adverse reaction case involving sedative hypnotics.

In 2011-2012, Dr. Buxton provided expert witness services to defendant’s attorney involving the dispensing of an adulterated drug product.
In 2009-2010, Dr. Buxton provided expert witness in a wrongful death case. The case was filed in Second District Court, State of Nevada. Buxton was retained by plaintiffs’ attorney to consult on the proximate cause of death and the standard of medical and pharmacy practice.

In 2008, Dr. Buxton provided expert opinion on behalf of the defendant in a matter filed in the District Court, Clark County, Nevada involving a pharmacy services provider.

In 2007, Dr. Buxton provided expert opinion in a wrongful death matter filed in the Circuit Court of the 11th District in and for Miami-Dade County, Florida. Dr. Buxton was retained on behalf of the defendant a health care provider and its physicians.

In 2006, Dr. Buxton was retained to examine prescription records and evaluate the potential that a driver with multiple claims for damages from automobile accidents was chronically impaired.

In 2005, Dr. Buxton rendered an opinion on behalf of the plaintiff in a medical malpractice case involving prescription medications.

**UNIVERSITY FUNDRAISER**

- **Planning and Development Grant for the University of Nevada Cell Cytometry Center**

- **Capital Campaign, Pennington Medical Education Building**
  Redfield Foundation, $500,000, 2001-2002.

- **University of Nevada School of Pharmacy**
  Campaign: $275,000 (pledges and gifts) 1998-2004

- **University of Nevada, Reno. Proteomics Center (assisted)**
  Equipment: $1,250,000, 2014

- **Research Gift, Department of Pharmacology 2016**
  Equipment: $200,000
CURRENT FUNDING (Principal Investigator/Co-investigator)

Awarded Grants

- Regulation of CAP Protein S-Nitrosation in Preterm Labor. NIH R01 HD091114-01A1. PI Buxton 10/2018-09/2022; $1,968,000 total costs.
- EZH2 inhibition and regulators of NFkB and NKILA represent a novel breast cancer therapy. NIH-NCI Huntsman GMap grant 2018-2019 ($20,000). PI S. Duan, Mentor Buxton.

Pending Grants

- Discovery of Molecular Targets Underlying Human Preterm Labor: Mechanisms of Dysfunctional Relaxation. NIH R01 HD101405-01. PI Buxton 4/2020-9/2024; $1,938,000 Total.
- EZH2 inhibition alters NFkB immune-homeostasis and the anti-tumoral capacity of NKILA. NIH R21 PI Iosef, Co-I Buxton. 4/2019-9/2021; $275,000 direct costs.

Recently Completed Grants

- Exosomal NM23 in Breast Cancer Metastasis UNSOM Women’s health Grant 7/01/2015-6/30/2017; $240,000 direct
- Super-Resolution Microscopy: Leica DMi8 with SR GSD 3D System UNSOM Women’s Health Research Program 7/01/2015-6/30/2016; $420,000
- Cell Biology of Signaling Across Membranes NIH 8P20GM103554-02 (Von Barthelead PI/Buxton Mentor), 4/2012-3/2017; $5,000,000

HONORS AND AWARDS

- Health Care Heroes Innovator Award 2016 Nevada Business Magazine
- University of Nevada Foundation Professor 2013
- Regents Researcher Award, 2011. Statewide Award, NSHE
- Vada Trimble Outstanding Graduate Mentor Award, 2011
- E.W. Richardson Excellence in Teaching Award, School of Medicine, Nom. 2010
- UNR Outstanding Researcher of the Year Award 2008
- Regents Graduate Advisement Award: UNR, Nom 2002
- Fellow, AHA Council on Basic Cardiovascular Sciences, 2001
- “Heart of Gold Award” AHA, Las Vegas 1995
- NIH New Investigator, 1984-1987
- NIH Postdoctoral Trainee 1981-1984
- Rho Chi Research Award, UOP, 1977
- Dami Foundation Award, UOP, 1976

PROFESSIONAL ASSOCIATIONS

- American College of Clinical Pharmacy
- Am. Assoc. of Colleges of Pharmacy
- American Society for Pharmacology & Experimental Therapeutics
- American Society for Biochemistry & Molecular Biology
- American Physiological Society
- Human Proteome Society (HUPO)
- Alliance for Cellular Signaling
- American Heart Association
- Sigma Xi Research Society
- Society for Gynecological Investigation
- New York Academy of Sciences
- Am. Association for the Advancement of Science
- International Society for Analytical Cytology 1988-1995
- Am. Assoc. Medical Colleges: Ed. Affairs
- AMSPC (Pharmacology Chairs Group)
- AM. Association for Cancer Research
PROFESSIONAL POSITIONS

- Member of the Board, UNSOM Integrated Clinical Services Inc. 2011-2017
- Member, Northern Regional Executive Committee, School of Medicine Practice
- Member, Southern Regional Executive Committee, School of Medicine Practice
- Academic Health Center Task Force, UNSOM-UMC 2010
- Director, School of Medicine Performance Compensation Plan 1995-2014
- Vice Chair, Research Committee of the AHA (MWPRC 1994)
- Chairman, AHA National Affiliate Study Section A (1995-96 Vascular Wall Biology)
- President Elect, American Heart Association, Nevada Affiliate 1992-1993
- Chair, Research Allocations Committee, AHA, Nevada 1990-92
- President, American Heart Association, Nevada Affiliate 1993-1995

ADVANCED TRAINING


CURRENT ACADEMIC COMMITTEES

- Chair, Radiation Safety Committee, University of Nevada, Reno
- Member, Laboratory Safety Committee, University of Nevada, Reno

PAST ACADEMIC COMMITTEES

- University Academic Standards Committee (1985-1987)
- University Human Subjects Committee (1986-1992)
- School of Medicine Search Committee: Chairman of Surgery (1987-1988)
- School of Medicine Search Committee: Chairman of OB/GYN (1989-1991)

- Member, Board of Directors, AHA, Nevada Affiliate 1990-1997.
- Member, Research Allocations Committee, AHA, Nevada 1989-96
- Councilor, Western Pharmacology Society, 2000-2002
- President, Western Pharmacology Society, 2002-2003
- Editor-in-Chief & Treasurer, Western Pharmacology Society, 2003-Present
- Member, Science Advisory Board, Bioinformatics, LLC. 2001-Present
- Member, The Gerson Lehman Group Council of Healthcare Advisors, 2002

- Course in Functional Genomics, FASEB Annual Meeting 2000

- Member Clinical Decision Making Educational Group, University of Nevada, Reno School of Medicine

- School of Medicine Library Committee (1989-1992)
- University of Nevada, Research Advisory Board (1989-1991)
- University of Nevada Search Committee: Radiation Health Physicist (1989-1990)
- Department of Pharmacology Search Committee: Assistant Professor (1989)
PAST ACADEMIC COMMITTEES (continued)

- Chairman, CMPP Graduate Student Recruitment and Admissions (1990-1995)
- Member, Personnel Committee of the School of Medicine (1992-1994)
- University of Nevada Search Committee: Exercise Physiologist (1991-1992)
- Chairman, Personnel Committee of the School of Medicine (1992-1994)
- Chairman, Basic Science Chairs Committee, UN, School of Medicine (93-97)
- Chair, Medical Student Research Comm., School of Medicine (1993-97) Chairman, School of Medicine Research Committee (1995-1997)
- Member, Science and Technology Day Committee, UNR (1993-1996)
- UCCSN, Search Committee: Director of Environmental Health and Safety (1994)
- University of Nevada, Search Committee: Professor of Biochemistry (1994)
- School of Medicine, Faculty Steering Committee (1994-1996)
- Member, University LCME Accreditation Self-Study Committee: Finance (1996-97)
- Member, CMPP Graduate Student Recruitment and Admissions Committee (1996-1998)
- Member, School of Medicine Search Committee; Senior Associate Dean (1996-1997)
- Member, School of Medicine Computers in Medical Education Working Group
- Co-Chair, President’s Task Force, School of Pharmacy (1998-2004)
- School of Medicine Radiation Hazards Committee (1987-1998)
- Member, Search Committee, Research Director, Sanford Center for Aging (1998)
- Member, Search Committee, Ass. Prof., Speech Pathology & Audiology (1998)
- Member, UNSOM Education Building Fundraising Committee; Education Building (1997-2002)
- Member, Search Committee, Assistant Professor of Biochemistry, (1999-2000)
- Advisory Board Member, University of Nevada, Reno Excellence in Teaching Program (2000-2003)
- Member, University of Nevada Medical Admissions Committee (2001-2005)
- Member, Planning Committee; Interdisciplinary Graduate Program. Molecular Biosciences and Biotechnology (2002-2003)
- Chairman, Personnel Committee of the School of Medicine (2004-2005)
- Member, Personnel Committee of the University of Nevada (2004)
- Member, UNSOM Faculty Senate, Faculty Development Subcommittee (2004)
- Member, School of Medicine Executive Committee (2005-2015). Member, Health Science Center Planning Committee (2006)
- Member, Scholarship Committee, Sanford Center for Aging. (2002-2009)
- Chair, Nevada System of Higher Education, Radiation Safety Committee. 2015-present
- School of Medicine Course Coordinators Committee: Year 1-2, 2008-present.
- Selection Committee; UNSOM; Chairman, Obstetrics and Gynecology. 2010.
- Selection Committee; UNSOM; Vice President for Health Sciences and Dean of the School of Medicine. 2010.
PAST ACADEMIC COMMITTEES *(continued)*

- Curricular Reform Task Force UNSOM; 2010-2011.
- Search Committee; UNSOM; Director, Marketing and Communications, 2012
- Search Committee; UNSOM; Director, Faculty Compensation/Productivity, 2012
- Member, LCME Reaccreditation Steering Committee, 2016-2017
- Co-Chair, Educational Resources Committee, LCME Reaccreditation 2016-2017

PEER REVIEW

Grant Reviewer

- Research Committee of the American Heart Association (MWPRC 1988-1995)
- Ad Hoc Member, NIH Study Section (SSS - Fluorescence Techniques; 1989)
- Ad Hoc Member, NIH Study Section (Biochemical Endocrinology, 1992)
- Reviewer, Election of Fellows, ACCP, '92, '93
- Member, NIH Study Section, CV Sciences, (1993-1995)
- Chairman, National Affiliate Study Section A (1995 Vascular Wall Biology)
- Reviewer; Cottrell New Investigator Awards, Research Corporation, 1998-99
- Member, NIH Review Panel, RCMI Program DRR 1999.
- Reviewer, US Army Breast Cancer Research, Cell Signaling Section, 1999
- Ad Hoc Reviewer: VA Merit Awards, 2001
- Reviewer, Excellence in Diversity Graduate Fellowships, UNR, 2002-3.
- Community Grants. Susan G. Komen for the Cure. 2008
- NIH Study Section Member; Pregnancy and Perinatology. Fall 2008
- Ad Hoc Reviewer, UK Action Medical Research, 2008
- NIH Study Section Reviewer ,ZRG1 EMNR-C Challenge Grants Panel 15, 2009
- NIH Study Section Reviewer 2010/08 ZRG1 EMNR-C (55) 06/29/2010; PN 2011-2012.
- Medical Research Grant Reviewer for the State of Arizona. 2014
- NIH Special Emphasis Panel. Obstetric-Fetal Pharmacology Research Centers (OPRC) ZHD1 DSR-A 50 1, April 2015-2016
- FDA Review Panel advisory Preparatory Meeting, Clarus Therapeutics. 12/2017
- Member, NIH Study Section Reviewer, ZRG1 EMNR-C (02). 2018.
PEER REVIEW (continued)
Manuscript Reviewer (16 manuscripts reviewed in 2018)
- American Journal of Obstetrics and Gynecology (since 1994)
- Journal of Pharmacology & Experimental Therapeutics (since 1984)
- American Journal of Physiology (since 1985)
- Journal of Applied Physiology (since 1996)
- Journal of Physiology (London; since 1997)
- Journal of Cardiovascular Pharmacology (since 1985)
- Circulation (since 1992)
- Circulation Research (since 1998)
- Journal of Biological Chemistry (since 1988)
- Life Sciences (since 1986)
- Pharmacotherapy (since 1989)
- Pharmacological Reviews (since 1992)
- Nature-Laboratory Investigation (Since 2017)

Scientific Abstract Reviewer
- Society for Reproductive Investigation, Annual Meeting (1997-2016)
- American College of Clinical Pharmacy, Scientific Sessions (1983-88; 1994-96)

Program Reviewer
- Site Visit Reviewer, NIH Program Project in Cellular Fluorescence Techniques. PI: D. Lansing Taylor, Department of Biological Sciences, Carnegie Mellon University, Pittsburgh, PA; On-site review 1989
- NIH Program Project in Endothelial Cell Gene Transplantation. PI: Fritz H. Bach, Depart. of Surgery, Harvard Medical School and Deaconess Hospital, Boston, MA; 1997
- Annals of Pharmacotherapy (since 1992); Editorial Board Member, Clinical Pharmacology (2003-2008)
- The Journal of Cell Biology (since 1992)
- Clinical & Experimental Pharmacology and Physiology (since 1993)
- Molecular Pharmacology (since 1989)
- Experimental Aging Research (since 2000)
- Proceedings, Western Pharmacology Society Editor-in-Chief since 2003.
- The Medical Letter (since 2003)
- American Journal of Pharmaceutical Education (since 2006)
- Journal of Clinical Pathology (since 2010)
- Nature 2014
- British Journal of Medicine and Medical Research
- Western Pharmacology Society, Annual Meeting & Scientific Sessions, 2003-2010
- NIH-NCRR Core Facility in Toxicology and Flow Cytometry; RCMI Principal Investigator: Alfred Nyanda, Department of Pharmacology Meharry Medical College, Nashville, On-Site Review, December 1999.
RESEARCH FUNDING HISTORY (funded as Principal Investigator or Co Investigator)

- **Subcellular Compartmentation of Hormone Action in Heart.** Training in Cardiovascular Pharmacology. NIH NRSA HL 07444, 4/81-6/84.
- **Mechanisms of α1-Adrenoceptors on Cardiac Myocytes.** NIH R23 HL 32928, PI: Buxton 7/84-6/87, $105,000 direct costs.
- **Development of a Cellular Model of Mammalian Ventricle.** UCSD BRSG, Faculty Research Grant, PI: Buxton (6-510124) 1984 $2,272 direct costs.
- **Mechanisms of α1-Adrenoceptors on Cardiac Myocytes.** NIH R23 HL 32928, PI: Buxton 7/84-6/87, $105,000 direct costs.
- **Activation of Cardiomyocyte Phosphodiesterase.** AHA Nevada Affili ate Grant-in-Aid, PI: Buxton 7/85-6/86, $15,895 direct costs.
- **Compartmentation of Hormone Action in 3T3-L1 Adipocytes.** UNR-RAB, Junior Faculty Award PI: Iain Buxton 7/86-6/87, $9,500 direct costs.
- **Hormone Signal Transduction in Cardiac Myocytes.** AHA Affiliate Grant-in-Aid, PI: Buxton 7/86-6/88, $32,533 direct costs.
- **Regulation of Calcium Action in the Heart.** Max Baer Heart Fund, PI: Buxton 5/87-9/87, $5,000 direct costs
- **Gradient HPLC.** NIH Small Instrumentation Grant. NIH S15 HL 39506, PI: Iain Buxton 7/87-6/88, $15,487 direct costs.
- **Automated Fluorescence Analysis of Cells.** NIH Shared Instrumentation Grant, NIH S10 RR 04160 Co-PI 10/87-9/88, $246,000 direct costs.
- **Purinergic Mechanisms in Cardiac Blood Vessels.** UNR-RAB Award, PI: Buxton 4/90-3/91, $5,000 direct costs.
- **Receptors for Adenyl Purines in Uterus.** UNR-RAB Award, PI: Buxton 5/89-4/90, $5,000 direct.
- **Quantitative Fluorescence Detection System.** NIH Shared Instrumentation Grant, NIH S10 RR 05876, PI: Buxton 12/89-11/91, $100,000 direct costs.
- **Fluorescence Imaging Laboratory.** Facilities Enhancement; UNR, VPAA, PI: Buxton 1/91-11/92, $16,000 direct costs.
- **Real-Time Fluorescence Video Imaging of Calcium Distributions in Living Cells.** Reno Cancer Center, PI: Buxton 10/91-9/93, $4,000 direct costs.
- **Role of Adenyl Purines in Myometrial Function.** NIH RO1 HD 26227 9/89 - 12/94, PI: Buxton $569,897 direct costs.
- **Receptor-signal Transduction in Colonic Muscle.** NIH PO1 DK 41315 (Project 4 PI: Buxton) 4/94-3/95, $116,000 direct costs.
- **The Role of Ecto-ATP Generation in Breast Cancer Metastasis.** PI: Buxton; Reno Cancer Foundation, 1994, $3,000 direct.
- **Acquisition of a Quadrupole Mass Spectrometer.** NSF DIR-9102839 Equipment Grant, Buxton: Principal User 20%, $304,322 direct costs.
RESEARCH FUNDING HISTORY (funded as PI or Co I continued)

- **Cell and Tissue Culture Core B: Receptor-Signal Transduction in Colonic Muscle.** NIH PO1 DK 41315, (Director Core B; I. Buxton) 4/89-3/95, $480,000 *direct costs*

- **Bio-Rad MRC-600 Confocal Imaging System.** NIH Shared Instrumentation Grant; NIH S10 RR 06507-01 Buxton: Principal User 20%, $135,000 *direct costs.*

- **Digital Camera for Cell Motion Analysis.** PI: Buxton Reno Cancer Foundation, 10/95-9/96, $3,400 *direct costs.*

- **The Effect of Age on the Purinergic Axis of Cardiac Blood Vessels.** PI: Buxton, Sanford Center for Aging, 11/95-10-96 $10,000 *direct costs.*

- **Role of ATP in Vascular Neuroeffector Processes.** NIH RO1 HL 38126, Dr. D. Westfall, PI; Buxton Co-Investigator, 10% effort, 4/92-4/97 $497,644 *direct costs.*

- **Postjunctional Mechanisms in Airway Hyperreactivity.** NIH RO1 HL 48183, Dr. Gerthoffer, PI; 10% effort, 2/92-1/97 $636,673 *direct costs.*

- **Automated DNA Sequenator (ABI 310; $65,000.00).** PI: Buxton; Gianoli Foundation, 1997.

- **Fluorescence-Activated Cell Sorting** (Coulter Epix; $380,000.00). PI: Buxton; Gianoli Foundation, 1997

- **Molecular Basis of Nitric Oxide Action in Primate Myometrium.** NIH R29 HD33430, Dr. M. Bradley, PI; Buxton Co-I, 5% effort, 4/96 - 3/98 $505,050 *total costs.*

- **Purinergic Mechanisms in Cardiac Endothelial Cells.** American Heart Association, National Grant-in-Aid Program 96006430; 1996-99 PI: Buxton $132,000 *total costs.*

- **Pre and In-flight Countermeasures to Sarcopenia.** PI: Buxton, Nevada Space Grant Program; 9/02-8/03, $4,200 *direct costs.*

- **Role of Ecto-ATP Generation in Breast Cancer Metastasis.** Clayton Foundation for Research NV-03 1/95-12/06 $1,250,000 *total costs;* 05-06 $83,332 *total costs.*

- **Functional Compartmentation of Nucleotide Receptors in Endothelial Cells.** Robert Z. Hawkins Foundation 8/15/05 – 8/14/06; $22,500 *direct costs.*


- **Purinergic Mechanisms in Coronary Blood Vessels.** NIH RO1 HL56422-01a2/96-11/02 (Percentile Ranking 1.5) $1,249,694 *total costs.*

- **Control of Rectoanal Motility.** NIH 1R01 DK 054490. PI Keef; Buxton, 5% effort, 8/00-7/02 $850,000 *direct costs.*

- **AHA Meeting Grant: WPS Annual Meeting 2/2/2003-2/6/2004, $2,000**

- **NV Biomedical Resources Infrastructure Network.** NIH BRIN 2002-2003 Core Use Grants, $8,000 *direct costs.*

- **Cloning and Expression of the Coronary P2y Receptor.** Robert Z. Hawkins Foundation 8/15/01e-7/31/04; $69,500 *direct costs.*


- **CSI-6000 Health Station Performance Study: AMI/ANSI Standards (SP-10): Computerized Screening Inc. $6,500, Buxton PI; 2007.**

- **2007 Annual Meeting Program Support for Western Pharmacology Society:** NIH Office of Rare Diseases $15,000.
RESEARCH FUNDING HISTORY (funded as PI or Co-I, continued)

- Regulation of Myometrial Relaxation: Agonist-specific cGMP Action. NIH RO1 HD053028; 2007-2013; $1,300,000 Inc. ARRA Supplement; direct costs. PI: Buxton.

RESEARCH FUNDING HISTORY (Mentor/Sponsor)

- Purinergic Receptor-mediated Angiogenesis in Breast Cancer. CDMRP BCRP Grant 10207692. PI: N. Yokdang, Mentor Buxton, $84,000 direct costs.
- Precollege Science Education in Nevada. Howard Hughes Medical Institute, HHMI #72594-537601, 7/94-6/99; $200,000 direct costs.
- Vascular Smooth Muscle in Microgravity. NASA EPSCoR Student Fellowship Grant. Erica Gipson, $8,000 direct costs.
- Pre-Doctoral Training Award, B. Oxhorn, Agonist-Specific ATP Release from Endothelial Cells. NIH F31 NR07379, 1998-2002, $95,000 direct costs.
- Stretch-Activated Two-Pore Potassium Channel Variants in Preterm Labor. MOD 2010-2013) PI: Buxton, $394,226 total cost
- Post-Doctoral Training Award, Michael Bradley, Adenosine A1 Receptors in Myometrium. F32HD07448-02, 1990-93, $80,000 direct costs.
- Post-Doctoral Training Award, S. Yang, ATP Release from Endothelial Cells. AHA-Nevada, 1990-92, $40,000 direct costs.
- Pre-Doctoral Training Award, Dennis Cheek, Purinergic Regulation in Cardiac Blood Vessels. NIH F31 NR06867, 93-96, $90,000 direct costs.
- Post-Doctoral Training Award, Dennis Cheek, Purine Metabolism by Cardiac Endothelial Cells. AHA-Nevada, 1994-95, $22,000 direct.
- Vascular Smooth Muscle in Microgravity. NASA EPSCoR Student Fellowship Grant. Erica Gipson 2002, $8,000 direct costs.
- Purinergic Regulation of Breast Cancer Metastasis. INBRE Undergraduate Fellows Program Whitney Law 2005; $5,000 direct.
- Stretch-Activated 2-pore Potassium Channels in Myometrium. INBRE Undergraduate Fellows Program. Eric Hansen 2006; $5,000 direct costs.
- TREK-1 Currents in Uterine Myocytes. INBRE Undergraduate Fellows Program. Mike Lee 2013; $5,000 direct costs.
RESEARCH FUNDING HISTORY (Mentor/Sponsor)

- Angiogenic Mechanisms; 3D Culture. INBRE Undergraduate Fellows Program. Katie Speirs 2011-13; $10,000 direct costs.
- Purinergic Receptor-Mediated Angiogenesis in Breast Cancer. CDMRP BCRP Grant 10207692. PI: N. Yokdang, 2010-2013; Mentor Buxton, $84,000 direct costs.
- EZH2 inhibition and regulators of NFkB and NKILA represent a novel breast cancer therapy. NIH-NCI Huntsman GMap grant 2018. Suzann Duan, Mentor Buxton.
- Proteomic Discovery in Human Myometrium. PhRMA Foundation Predoctoral Fellowship. 2010-2013 $75,000.

UNDERGRADUATE TRAINING IN RESEARCH

- Dr. Buxton regularly takes medical students into the lab for research rotations in the summer between their freshman and sophomore years. Thirty-five students have been mentored from 1986 through the present.
- Dr. Buxton is a Research Mentor for the undergraduate major in Biochemistry. Students engage in a two semester research experience and write an Undergraduate Thesis, and present their work in a public forum at the end of the academic year. Forty-eight students have been mentored since 1987 to the present.
- Dr. Buxton serves as a mentor for students majoring in Biochemistry, Biophysics and Molecular Biology from Whitman College, Wala Wala, Washington and Pharmacy students from Washington, Utah and Colorado.

GRADUATE PROGRAM AFFILIATIONS & TRAINING OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS:

- Founding Member, Cell and Molecular Pharmacology and Physiology, School of Medicine, University of Nevada, Reno
- Member and Director (past), Biochemistry Graduate Program, Colleges of Medicine, Science and Agriculture, University of Nevada, Reno
- Member, Cell and Molecular Biology Graduate Program, Colleges of Medicine, Science and Agriculture, University of Nevada, Reno

Graduate Training: ( denotes Dr. Buxton as Major Advisor)

<table>
<thead>
<tr>
<th>Name</th>
<th>Program</th>
<th>Role</th>
<th>Date Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merton A. Smith</td>
<td>M.D./Ph.D. (Pharm.)</td>
<td>Advisor</td>
<td>Ph.D. (1989)</td>
</tr>
<tr>
<td>Padraig Hart</td>
<td>Pharmacology/Physiology</td>
<td>Member</td>
<td>Ph.D. (1994)</td>
</tr>
</tbody>
</table>
Dawn Duval  Pharmacology/Physiology   Member   Ph.D. (1994)
John Dover  Chemistry  Member   Ph.D. (1996)
Karri Kuenzli  Pharmacology/Physiology  Advisor   Ph.D. (1996)
Dennis Cheek  Pharmacology/Physiology  Advisor   Ph.D. (1996)
Jeanette McHugh  Pharmacology/Physiology  Member   Ph.D. (1996)
Shelly VonBerg  Speech Pathology/Audiology  Member   M.S. (1996)
Christopher Porada  Pharmacology/Physiology  Member   Ph.D. (1998)
Jasmine Vittori  Cell & Molecular Biology  Advisor   M.S. (W)
Leah Skladany  Speech Pathology/Audiology  Member   Ph.D. (2001)
Nicole Kiel  Speech Pathology/Audiology  Member   M.S. (2000)
Jennifer Dreyer-Ladue  Speech Pathology/Audiology  Member   M.S. (2000)
Brett Martin  Pharmacology/Physiology  Member   M.S. (1999)
Lorraine Wolf  Speech Pathology/Audiology  Member   M.S. (1999)
Peter Wolf  (nr)  Speech Pathology/Audiology  Member   M.S. (1999)
Rebecca E. Dendauw  Speech Pathology/Audiology  Member   M.S. (1999)
Brian Oxhorn  Pharmacology/Physiology  Advisor   Ph.D. (2002)
Sunny Xiang  Pharmacology/Physiology  Member   Ph.D. (2008)
Tim O’Donnell  Pharmacology/Physiology  Member   Ph.D. (W)
Sreenivasa Anugu  Chemistry  Member   Ph.D. (2009)
Michael Mouradian  Biochemistry  Member   Ph.D. (2012)
Nucharee Yokdang  Cell & Molecular Biology  Advisor   Ph.D. (2011)
Craig Ulrich  Biochemistry  Advisor   Ph.D. (2012)
Yi-Ying Wu  Biochemistry  Advisor   Ph.D. (2013)
Scott Barnett  Pharmacology/Physiology  Advisor   Ph.D. (2017)
Suzanne Duan  Pharmacology/Physiology  Advisor   Ph.D. (2019)
## Training of Postdoctoral Fellows:

<table>
<thead>
<tr>
<th>Name/Fellowship</th>
<th>Doctoral Program/Year</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubo Zhang, Ph.D.</td>
<td>Pharmacology Iowa State University, Ames, 1989</td>
<td>Professor Loma Linda Univ. College of Medicine, CA</td>
</tr>
<tr>
<td>Michael Bradley, Ph.D.</td>
<td>Physiology USC, Los Angeles, 1990</td>
<td>Professor of Biology, Newman Univ. Division of Science</td>
</tr>
<tr>
<td>Shumei Yang, Ph.D.</td>
<td>Chemistry, Iowa State Univ. Ames, Iowa, 1991</td>
<td>Professor, Chemistry Cal State University, CA</td>
</tr>
<tr>
<td>Elizabeth Berge, M.D.</td>
<td>Medicine, University of Nevada, Reno, 1992</td>
<td>Adj. Assoc. Professor OB/Gyn UNSOM, Las Vegas, NV</td>
</tr>
<tr>
<td>James Barber, M.D.</td>
<td>Medicine, University of Nevada, Reno, 1993</td>
<td>Adj. Assoc. Professor OB/Gyn UNSOM, Las Vegas, NV</td>
</tr>
<tr>
<td>Sandra Brave, Ph.D.</td>
<td>Pharmacology, King's College London, UK 1993</td>
<td>Senior Scientist Burroughs Welcome, UK</td>
</tr>
<tr>
<td>W. Zaman, M.D., Ph.D.</td>
<td>Biochemistry Kyushu Univ. Japan 1993</td>
<td>Associate Member, Sanjay Gandhi Medical Institute, Lucknow, India</td>
</tr>
<tr>
<td>S. Mathew, M.D., Ph.D.</td>
<td>Medicine, Biochemistry Univ. of Nevada Reno, 1996</td>
<td>Associate Professor Pediatrics UNSOM, Reno, NV</td>
</tr>
<tr>
<td>D.J. Cheek, Ph.D.</td>
<td>Pharmacology University of Nevada, Reno, 1996</td>
<td>Professor TCU Nursing School Fort Worth, TX</td>
</tr>
<tr>
<td>L. Jones, Pharm.D.</td>
<td>Purdue University, 2002 College of Pharmacy</td>
<td>Associate Professor, Loma Linda College of Pharmacy, California</td>
</tr>
<tr>
<td>S. Rumjahn, Ph.D.</td>
<td>University of Nevada 2008 Pharmacological Sciences</td>
<td>Research Scientist, Charles River Labs, Reno, Nevada</td>
</tr>
<tr>
<td>Nate Heyman, Ph.D.</td>
<td>University of Arizona, 2007 Physiology and Biophysics</td>
<td>Assistant Professor, California Baptist Univ., Riverside California</td>
</tr>
<tr>
<td>Heather R. Burkin, Ph.D.</td>
<td>University of Illinois, 2003 Reproductive Biology</td>
<td>Assistant Professor, Univ. of Nevada, Dept. of Pharmacology</td>
</tr>
<tr>
<td>Joseph Tellez, Ph.D.</td>
<td>University of Nevada, 2010 Biology</td>
<td>Postdoctoral Scholar, Univ. of California, Davis Cancer Center</td>
</tr>
<tr>
<td>Chad Cowles, Ph.D.</td>
<td>University of Nevada, 2012 Biomedical Engineering</td>
<td>Postdoctoral Fellow, Univ. of Arizona, Dept. of Pharmacology</td>
</tr>
</tbody>
</table>
PUBLICATIONS

Books


Journals Published as Editor-in-Chief


Book Chapters/Invited Reviews


PUBLICATIONS

Book Chapters/Invited Reviews (continued)


PUBLICATIONS

Professional News Letters/Letters to the Editor/Book Reviews


Original Research Data-Base & World Wide Web Contributions


Original Research Data-Base & World Wide Web Contributions (continued):


Original Research Articles

* Contributed as Principal Experimentalist


PUBLICATIONS

*Original Research Articles (continued)*


PUBLICATIONS

Original Research Articles (continued)


PUBLICATIONS

**Original Research Articles** (continued)


PUBLICATIONS

Original Research Articles (continued)


PUBLICATIONS

Original Research Articles (continued)


PUBLICATIONS

Original Research Articles (continued)


PUBLICATIONS

Original Research Articles (continued)


Original Research Articles (submitted, in revision or in preparation)


Research Abstracts


PUBLICATIONS

Research Abstracts (continued)


PUBLICATIONS

Research Abstracts (continued)


PUBLICATIONS

Research Abstracts (continued)


PUBLICATIONS

Research Abstracts (continued)


Cheek, D.J. and Buxton, I.L.O. (1994) Nucleoside diphosphate kinase (NDPK) and adenylate kinase (AdK) are expressed as *ecto*-enzymes on cardiac endothelial cells. *Drug Development Research* 31(4): 255.


PUBLICATIONS

Research Abstracts (continued)


PUBLICATIONS

Research Abstracts (continued)


PUBLICATIONS

Research Abstracts (continued)


PUBLICATIONS

Research Abstracts (continued)


PUBLICATIONS

Research Abstracts (continued)


PUBLICATIONS

Research Abstracts (continued)


Copley-Salem, C, Ulrich, CC, Quilici, D, Schlauch, K, Burkin, HR, and Buxton, ILO. Stretch Induced Phosphoproteomic Signaling Networks in Pregnant Human Myometrial Cells. Reproductive Sciences, vol. 21, no. 3, pp. 138A


Senny Wong, Katie Spiers, Suzann Duan, Iain LO Buxton. MDA-MB-231 Cell Exosomes Contain Nucleoside Diphosphate Kinase. Reproductive Sciences T-041, 121a, 2015
PUBLICATIONS

Research Abstracts (continued)

Iain L. O. Buxton, Craig Ulrich and Heather R. Burkin. Nitric Oxide-Mediated Relaxation of Spontaneously Active and Agonist-Evoked Contraction of Human Pregnant Myometrium is Blunted in Preterm Tissues. SSR Abstracts 198a, pg. 79, 2015

Craig C. Ulrich, Christian Copley-Salem, David Quilici, Karen Schlauch, Iain L. Buxton and Heather R. Burkin. Stretch Induced Phosphoproteomic Signaling Networks in Pregnant Human Myometrial Cells Highlight the Importance of the Integrin Signaling Pathway. SSR Abstracts 199a, pg. 79, 2015


Ulrich, C., Copley-Salem, C., Schlauch, K., Buxton, I.L.O. and Burkin, H. mTOR signaling is activated in response to myometrial stretch: Implications for preterm labor. Reproductive Sciences 23(1) 217A. 2016


Nordmeier, S, Duan, S, and Buxton, ILO. Exosomal NM23 Mediates Purinergic Regulation of Breast Cancer Angiogenesis [abstract]. In: Molecular Biology of the Cell; 2016 Dec 3-7; San Francisco, California (CA); ASCB; 2016.


PUBLICATIONS

Research Abstracts (continued)


PATENTS


INVITED LECTURES

Invited Leadership Presentations:

Organization and Management Structures for Research & Practice in Schools of Pharmacy: Role of
the Dean. New Mexico Health Sciences Center, Albuquerque, April 25, 2002.

Development of a New School of Pharmacy Under Revised ACPE Accreditation Guidelines. Samuel
Meritt College, Oakland California, July 2008.

Invited Research Presentations:

Mechanisms of Dysfunctional Quiescence in Spontaneous Preterm Labor. Invited Plenary, Society

Therapeutic Inhibition of GSNOR in the Management of Preterm Labor. Platform Presentation at
the 3rd Annual Clinical Translational Research Meeting (CTR-IN), Las Vegas, NV June 2016.

Intimations on the Metastatic Process in Breast Cancer: *Incommodus Verum* Invited Speaker, (the
International Congress of the NDPKinase/Nm23/awd Gene Family a New Frontier in Cell and
Cancer Biology. July 31st-Aug. 4th, 2013. Boston University, Boston, Massachusetts, USA

Current Research in Pharmacology and Medicine Milan Institute, October, 2012

New Therapeutic Targets in the Regulation of Myometrial Relaxation. Department of Obstetrics
and Gynecology, University of Colorado, Denver. October 11, 2011.

*Incommodus Verum*: Extracellular Nm23 Signaling in Breast Cancer, Plenary Lecture. Western
Pharmacology Society Annual Meeting, Mexico City, Mexico, May 16, 2011

Suppression of Breast Cancer Metastasis by Polyphenols. Plenary Lecture, Western Pharmacology

Regulation of human uterine relaxation at term by stretch-activated potassium channels. Plenary
Lecture, Western Pharmacology Society Annual Meeting, Acapulco, Mexico, February 12th 2009.

The Physiology of Pregnancy and Parturition. Obstetrics and Gynecology Department, University
of Nevada School of Medicine, April 2006

Functional Organization of Myometrial Relaxation Signaling During Labor in Humans. Myometrial
Satellite Symposium; Annual Society for Gynecological Investigation Meeting 2005.

Departmental Research Rounds, Regulation of Uterine Contraction in Prematurity. Obstetrics and
Gynecology Department, University of Nevada School of Medicine, April 2005

Regulation of Relaxation Signaling in Human Myometrium Plenary Lecture, Western

New Therapeutic Targets in Preterm Labor Research Grand Rounds. Department of Obstetrics
and Gynecology, University Medical Center, Las Vegas, NV. October, 2001.

Nitric Oxide Signaling in the Human Pregnant Myometrium. IUPS; XXXIVth International Congress
of Physiological Sciences, from Molecule to Malady, Satellite Meeting; Physiology of Pregnancy
and Parturition, Auckland, New Zealand, August 2001.

Mechanisms in Vascular Regulation Texas Tech University of the Health Sciences, Amarillo, March
2000.

Role of Nm23 in Human Breast Cancer Metastasis University of Nevada Las Vegas/UNSOM
Iain L. O. Buxton 2019  Curriculum Vitae


The Purinergic Axis in Blood Vessels. University of Maryland, School of Pharmacy, Baltimore, Maryland, July 1997.

Cyclic GMP-Independent Actions of Nitric Oxide in Human Myometrium. Loma Linda School of Medicine, Department of Physiology, Division of Perinatal Biology, Loma Linda, CA, April 1997.

Origin, Sources and Fates of Nucleotides in the Coronary Vasculature. University of Nevada Las Vegas, Invited Seminar, Department of Biology, Las Vegas, Nevada, June 1997.

Nucleotide Regulation of the Coronary Vasculature. University of California Davis, Division of Cardiovascular Sciences, Department of Medicine, October 1996.

On the Nucleotide Axis in Cardiac Blood Vessels. Basic Pharmaceutical Sciences, West Virginia University School of Pharmacy, July 1996.

The Purinergic Axis in Cardiac Blood Vessels. Department of Pharmaceutical Sciences, University of Montana, Missoula, April 1996.

Endothelial Cell Purinergic Mechanisms in Coronary Arteries. Department of Pharmacology, Quillen College of Medicine, Johnson City, Tennessee, April, 1996.

A Role for NO in the Onset of Labor. Symposium; Regulation of Onset of Labor (Chair, I.L.O. Buxton) Society for Gynecological Investigation, Annual Meeting, Philadelphia, 1996


A Role for Adenyl Purines in Myometrial Function. Loma Linda School of Medicine, Department of Physiology, Division of Perinatal Biology, Loma Linda, CA. June 1993.


Adenosine Receptor Mechanisms in Parturition. Division of Perinatal Biology, Loma Linda School of Medicine, February 1992.


INVITED LECTURES

Lectures Presented in Conjunction With Professional Continuing Education Programs:

New Approaches to the Prevention of Preterm Delivery. March of Dimes Women’s Health Symposium, Friday, November 19, 2010, Tuscany Suites and Casino, Las Vegas, NV.


Pharmacotherapy of Joint Diseases. Continuing Education for Physicians and Pharmacists. UNR Department of Continuing Education Program, August, 1999, Reno, NV.

Pharmacology: Introductions to a Basic Medical Science Discipline: Howard Hughes Teacher Fellows Conference, University of Nevada School of Medicine, 1998.

Receptor Theory: The Road to How and Why: Howard Hughes Teacher Fellows Conference, University of Nevada School of Medicine, 1997.

Pharmacology in the Classroom: Howard Hughes Teacher Fellows Conference, University of Nevada School of Medicine, 1996.

Pharmacognosy: Drugs from Plants. Howard Hughes Teacher Fellows Conference, University of Nevada School of Medicine, 1995.


Catecholamine Receptor Regulation of Inotropy in Mammalian Heart. Department of Medicine, University of California, Los Angeles, 1984.

Special Intensive Care Unit Pharmacology. American Lung Association, (Provided as Continuing Education credit for Nurses), 1982.

Amrinone in Congestive Cardiomyopathy. Pharmacy Grand Rounds, Veterans Administration Medical Center, 1980.

Propranolol in the Treatment of Angina Pectoris. Veterans Administration Medical Center, 1979. (Provided as Continuing Education credit for Pharmacists.)

Biopharmaceutics and Pharmacokinetics. California Nursing Association, 1979. (Provided as Continuing Education credit for Registered Nurses.)
Public Education/Awareness Lectures


The path to New Drug Development Invited remarks for the Whittemore Peterson Institute fundraising gala, October 2014.


Women’s Health Research in Nevada Reno Soroptomists Club, April, 2007


Current Therapies for Cancer. Presented to the Sparks, NV Veterans of Foreign Wars Auxiliary, October, 1999.

INVITED LECTURES

Public Education/Awareness Lectures (continued):


Science, Medicine, Ethics and Cloning. Public lecture given to the Sparks Chapter of the Rotary Club, June 1997.


Shaping a Healthy Future: The Anatomy and Physiology of the Heart and Blood Vessels. Public lecture given to Washoe County school teachers, Sparks Middle School, February 5, 1996.


