

CURRICULUM VITAE

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MEDICAL DEGREES, POSTGRADUATE QUALIFICATIONS AND HONORS

- 1975 **MB,BS, First Class Honors**, University of London, with Honours in Pathology
 Licentiate of Royal College of Physicians
 Member of Royal College of Surgeons
- 1976 Full **registration** with General Medical Council
- 1978 **Master of Science in Medical Microbiology** (London University), with mark of distinction.
Thesis. Use of gas liquid chromatography in identification of infected cultures. (Publications #1,3)
- 1981 **Doctor of Medicine (University of London) (Epidemiology).**
Thesis: 'Investigation and control of hospital-acquired Legionnaires' Disease' (Publications #4,10,) Equivalent of PhD.
- 1981 **Fellow of the Royal College of Pathologists (Virology).** (5 years residency in pathology, and by examination, as regulated by the College, equivalent to Board Certification in Infectious Diseases)
- 1989 **EFCMG**

HONORS & AWARDS

- 1999 **Chevalier de la Légion d'Honneur** from the President of the French Republic, M. Chirac to recognize the design and construction of the BSL4 laboratory in Lyon.
- 2000 **Médale de la Ville de Lyon**, by Mr. Raymond Barre
- 2000 **Prix Scientifique, Groupe Paris Lyon**
- 2004 **Nominated for McGovern Teaching Award.**
- 2008 **Inducted into the Women in Technology International Hall of Fame**
- 2015 **Texas Health Champion Organization Award, Michael and Susan Dell Center for Healthy Living.**

SCHOOLING

- 1956-8 **Dr. Williams' School, Dolgellau**

- General Certificate of Education: Ordinary Levels. English Language, English literature, French, Latin, Mathematics, General Science, Music, History
- 1958** Advanced Levels: English(B), French(B) and History(B).
- 1958-59** **University of Paris at the Sorbonne**
Cours de civilisation française, Sorbonne, Paris.
Diplôme de cours de civilisation française
Diplôme de la langue française, 2ème degré
- 1959-60** **American Business School, Rome**
1962 Associate of Institute of Linguists (Italian)
1963 Institute of Linguists, Student 1 (Russian)
- 1967-69** **Farnborough Technical College** (Part time)
GCE Advanced Levels: Physics(A.A), Chemistry(A.A) and Zoology (B.D)
- 1970-1975** **Royal Free Hospital School of Medicine (University of London)**

Prizes	Elizabeth Garrett Anderson Scholarship (Fishmongers' Company). The Lord Rank Prize in Biochemistry Winifred Secretan Patch Prize in Practical Anatomy Austin and Bodine Lamont Prize in Pharmacology Mrs. George M. Smith Prize in Pre-Clinical Subjects Kenneth Hill Prize in Pathology Esther Frances White Memorial Prize
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- 1987-1988** **London School of Hygiene and Tropical Medicine**
Masters degree course in Medical Microbiology (Distinction)
- Languages** French and Italian (fluent)
Spanish (elementary)
Russian (rudimentary)
- CURRENT POST**
- 2000 to present** **Professor, University of Texas Houston School of Public Health at Brownsville, Texas.**
- 2001 to present** **Faculty, University of Texas Health Sciences Center, Houston. Graduate School of Biomedical Sciences.**
- 2010** **Adjunct professor. Indus Hospital, Karachi, Pakistan.**
2012 **Member Baylor College of Medicine National School of Tropical Medicine**

PREVIOUS POSTS AND FELLOWSHIPS HELD (CONTINUOUS)

- 1997- 2000** **Directeur**, Laboratoire Jean Mérieux, BSL4, Fondation Marcel Mérieux, Lyon, France
- 1993-1997** **Research Professor**, Department of Pathology, Aga Khan University Medical School, Karachi, Pakistan.
- 1990-93** **Senior Medical Epidemiologist**, Mycotic Diseases Branch, Division of Bacterial and Mycotic Diseases, Centers for Disease Control and Prevention, Atlanta
- 1986-90** **Deputy Branch Chief**, Special Pathogens Branch, Division of Viral and Rickettsial Diseases, Centers for Disease Control and Prevention, Atlanta. (April to October 1988, **Acting Branch Chief**, Special Pathogens Branch.)
- 1991** **Associate Professor**, Emory School of Public Health
1982 **Honorary lecturer**, St. George's Hospital Medical School
1985-86 **Consultant Medical Microbiologist and Director**, Viral Zoonoses Laboratory, Central Public Health Laboratory

- 1982-85 **Wellcome Trust Fellowship** Wellcome Trust Unit, Bangkok,. and Special Pathogens Reference Laboratory, Porton Down
- 1979-82 **Senior Registrar**, Department of Virology, St. George's Hospital Medical School, and Department of Microbiology, Kingston Hospital
- 1977-78 **MSc course in Medical Microbiology**, London School of Hygiene and Tropical Medicine, Public Health Laboratory, Churchill Hospital, Oxford
- 1976-77 **Trainee medical microbiologist**, Oxford Regional Public Health Laboratory, Radcliffe Hospital, Oxford
- 1975-76 **House Physician** to Dame Sheila Sherlock, Medical Unit, Royal Free Hospital. **House Surgeon**, St. Luke's Hospital, Guildford

INTERNATIONAL EXPERIENCE AND CONSULTATIONS

- 1981 & 1983** Visiting Lecturer in Advanced Virology, Al Azhar University, **Cairo** (British Council supported): Establish and conduct a three week course in virology including clinical and pathological lectures and practical laboratory teaching. Included advising and encouraging further training for individuals. Initiation and obtaining of British Council sponsored training support and exchange studies for selected physicians in the United Kingdom
- 1982** Wellcome Trust Unit, **Bangkok**: Studies of management of human rabies Experience in conducting clinical and laboratory studies in Thailand in collaboration with Thai physicians and scientists.
- 1984** Collaborative study, **CDC, Atlanta**: Study of pathophysiology of Lassa fever Conduct of study in Biosafety Level 4 containment using nonhuman primates
- 1985** Collaborative study, Lassa Fever Research Unit Segbwema, **Sierra Leone** Study of pathophysiology of Lassa fever;; Conduct of study in rural West Africa in collaboration with the Lassa Fever Research Project of the Sierra Leone Ministry of Health and CDC.
- 1985** Design of and teaching in WHO workshop on Lassa Fever, **Sierra Leone**, June 1984
Planning and supervision of one week course for representatives from several countries. Included lectures, site visits, and laboratory, clinical and epidemiological workshops in the Eastern Province, presenting patients, visiting endemic village sites and practical laboratory teaching. Publication of guidelines for management of VHF's in Africa.
- 1985** Temporary advisor to WHO workshop on viral hemorrhagic fevers, **Moscow**, October 1985: Preparation and presentation of expert advice
- 1985** Temporary advisor to WHO, European group on Biosafety, **Madrid**: Preparation and presentation of expert advice.
- 1986** **Sierra Leone** Review of project. Assuming long term joint responsibility for the project, including financial, personnel, embassy, transport and other management areas, as well as scientific studies. These studies include drug trials of antiviral compounds. This project frequently involves difficult management and personnel decisions, since the economic conditions are desperate, and the site very remote.
- 1986** **China** Establish project: Visit to Shanghai to explore possibilities of setting up studies of HFRS. Establishment of contacts and agreement to proceed with the First Medical University of Shanghai and the Department of Infectious Diseases, Hua Shan hospital.
- 1986** **Thailand** Establish project: Invited presentation of data at meeting on the pathophysiology of Dengue hemorrhagic fever, and establishment of contacts for long term collaborative studies
- 1987** **Sierra Leone** Review of project
- 1987** **China** Review of project: Establishment of the collaborative studies mainly based in Zhejiang Province. Working with the Antiepidemic Stations in rural counties on prospective village studies, and case control study of HFRS in

- rural and semirural areas. Preparation of protocols, questionnaires and initiation of studies.
- 1987 Thailand** Review of project: Preparation of protocols, questionnaires and initiation of studies at Chulalonghorn School of Medicine, Department of Pediatrics. Collaborative links established with AFRIMS division of virology to provide laboratory and logistic support. (Funded by the Rockefeller foundation)
- 1987 South Africa** Epidemic investigation of CCHF. Collaborative epidemic investigation in rural areas
- 1988 Sierra Leone** Review of project: Ongoing management and supervisory visit. Support for establishment of public health education program
- 1989 Senegal** Epidemic investigation of CCHF: Collaborative epidemic investigation with Institut Pasteur, Senegal
- 1989 Nigeria** Epidemic investigation of Lassa fever: Epidemic investigation of three major outbreaks of Lassa fever in hospitals and in the community
- 1989 Sierra Leone:** Review of project and shooting of documentary film on Lassa Fever, funded by WHO and available from CDC.
- 1989 Thailand.** Review of project: Collation of data and establishment of laboratory based collaborative studies at AFRIMS involving technical staff from CDC
- 1989 Amsterdam:** Investigation of Ebola infection in nonhuman primates in transit.
- 1990 Indonesia:** Investigation of Ebola infection on nonhuman primates and in animal handlers.
- 1990 Saudi Arabia:** Investigation of outbreak of Crimean Congo hemorrhagic fever in animal meat handlers in Mecca and Jeddah. Establishment of laboratory facilities in Saudi Arabia.
- 1990 Sierra Leone:** Review of project, and planning for five year program of therapeutic trials and vaccine evaluation.
- 1991 Sierra Leone:** Review of project. Conduct of audit of ribavirin treatment data in preparation for submission to FDA
- 1992 Washington, DC.** Served on panel of advisors for Review of Infectious Diseases Program for the Department of Defense (Viral & Rickettsial Diseases Group).
- 1993 Pakistan:** Consultant to AKHS,P for cholera outbreak in Gilgit District
Consultant to AKHS,P for HIV testing in Gilgit District
- 1994 Pakistan:** Consultant to AKHS,P for HIV testing in Gilgit District
- 1994 Kenya and Tanzania:** Consultant to AKHS,K and Aiglemont for HIV screening procedures in Kenya and Tanzania
- 1995 Bangladesh:** Delegate to Regional Network Program of the AKHS annual research meeting
- 1995 Kenya and Tanzania:** Consultant to AKHS,K and Aiglemont for blood banking and HIV screening procedures in Kenya and Tanzania
Consultation on design of new reference laboratory at the Aga Khan Hospital, Nairobi.
- 1998 Gabon:** Review of Ebola program for CIRMF, Franceville.
- 1998 CDC Atlanta:** BSL4 laboratory users group
- 1999 Liberia:** Consultation for Merlin Refugee Agency
- 1999 Novosibirsk, Siberia:** Delegate to scientific meeting to discuss biowarfare facilities at the Russian BSL4 laboratory facilities.
- 2000 Keystone symposium:** Invited speaker
- 2000 Coldspring harbour:** Invited speaker, diagnosis of emerging infections
- 2000 Muscat and Oman:** consultations for the government of Oman and invited speaker at 1st International Emerging Diseases Conference.
- 2000 CDC Atlanta:** BSL4 laboratory users group
- 2000 Nigeria.** Investigation and laboratory support for epidemics of Lassa fever
- 2010/11 Pakistan.** Visits to Indus Hospital Research Center in Karachi to advise and plan on establishment of training and research activities (ongoing)
- 2012 Dubai and Pakistan:** Development of a collaborating consortium of cohorts in the Eastern Mediterranean Region. (IRD and Indus Hospital)

2012	Dubai and Pakistan: Development of TBReach projects in Pakistan, Bangladesh and Indonesia. (IRD and Indus Hospital)
2012	Kuala Lumpur: Invited panelist Diabetes and Tuberculosis studies, IUTLD annual conference (World Diabetes Federation)
2012	StopTB Coordinating Council Member
2015	Invited Delegate (presentation) Bali conference TB and Diabetes, IUTLD
2016	Invited Delegate (presentation) NIDDK/NIAID Workshop Developing a Comprehensive Therapeutic Research Strategy for the Converging Epidemics of TB, T2DM, and HIV.
2016	Invited Delegate (presentation) NIAID/IUTLD conference on TB/DM pandemic, Liverpool
2017	Invited presentation. 2nd Liver Cancer Symposium, Baylor College of Medicine

In addition to scientific and management duties, the overseas experience includes dealing with Ministry of Health officials to the level of Minister. Contact with United States Embassy personnel and State Department in Washington. Dealing with agencies such as WHO, CARE, the British Council and the Rockefeller Foundation, and obtaining support from them for projects and for training of individuals.

DIRECT SUPERVISORY RESPONSIBILITIES

1979-82	St. George's Hospital, London. Supervision of five laboratory technicians providing diagnostic service at St. George's Hospital
1979-82	Kingston Hospital, London. Supervision of two senior microbiologists in setting up virology diagnostic laboratory and epidemiologic investigation of Legionnaire's Disease outbreak
1982-85	Porton Down: Supervision of one senior virology technician in experimental primate studies
1985-86	Colindale: Recruitment and supervision of two senior technicians and one scientist. Setting up BSL4 diagnostic facility and research program
1986-1991	CDC, Atlanta: Supervision of diagnostic and pathophysiology group consisting of five technical and scientific staff involved in diagnostic and research work, including evaluation of genetically engineered vaccines in nonhuman primates in BSL4 suited laboratory facilities. This group has been very stable, and individuals have developed and extended their capabilities, taking on roles in overseas collaborative studies, data management, and writing their own papers.
	Supervision of EIS officer setting up investigations in Africa.
1991-92	Statistical analysis of national hospital discharge data sets. Development of molecular techniques for strain differentiation of candida species.
1993-96	Chief, Clinical Microbiology laboratory. 18 technologists, and PhD molecular biologist. Establishment of molecular biology diagnostic facility. Supervision of students, instructors, residents and junior faculty in general training and in research projects.
1997-2000	Direction of design, building and launching of BSL4 laboratory in Lyon, France, including recruitment of research team and development of scientific program.
2001-to date	Professor, Epidemiology. Responsibility for design and establishment of field and molecular epidemiology program at the UT Houston School of Public Health Regional Campus at Brownsville. Recruitment of scientists, equipment of laboratory and development of scientific program, including design and operation of BSL3 laboratory. Management and operation of Clinical Research Unit. Junior faculty mentoring.
2004 to date	Direction of the Cameron County Hispanic Cohort and the Clinical Research Unit

TEACHING EXPERIENCE AND LECTURING

- Language teaching (French and Italian) at adult education centers (1970s). English as a foreign language (Rome 1960)
- St. George's Hospital Medical School, London, S.W.17. Medical students. Regular seminars in viral diseases. Lectures in formal didactic program.
- Invited lectures in viral hemorrhagic fevers. London School of Hygiene and other institutions in UK.
- Lectures in viral hemorrhagic fevers, Emory University School of Public Health and Center for International Health Studies.
- Courses in advanced virology. Al Azhar University, Cairo
- Undergraduate medical school courses in virology. Aga Khan University Medical School, Karachi.
- Preparation of proposed graduate program in molecular microbiology. Aga Khan University Medical School, Karachi.
- Regional epidemiology training program, Aga Khan University Medical School, Karachi
- Teaching epidemiology and emerging diseases to graduate and medical students at the University of Texas Houston School of Public Health, and the Graduate School of Biomedical Sciences, University of Texas Health Sciences Center, Houston.
- On-line course in outbreak investigation and control.

UNIVERSITY COMMITTEES, Aga Khan Hospital Medical School

University Research Committee

Strategic Planning Committee, Co-chair Committee on Graduate Studies

Molecular biology working group

Chair, HIV/AIDS working group

UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER, SCHOOL OF PUBLIC HEALTH

Culminating Experience Committee

Epidemiology Curriculum Committee

Global Health Committee

Chair, Faculty Search Committee

Academic Council

Faculty Council

REVIEWS, AND EDITORIALS

- Lancet (Reviews and editorials)
- International Journal of Tuberculosis and Lung disease (Reviews and editorials)
- Royal Society of Tropical Medicine and Hygiene
- American Society of Tropical Medicine and Hygiene
- Clinical Infectious Diseases
- Journal of Medical Virology
- Emerging Infectious Diseases
- U.S. Civilian Research & Development Foundation (CRDF) for the Independent States of the Former Soviet Union
- BioMed Central
- Cancer
- Clinical Microbiological Reviews
- Environmental and Molecular Management
- International Journal of Infectious Diseases
- Medical Science Monitor
- Trends in Microbiology
- Annals of Epidemiology
- Vaccine

EDITORIALS, OPEDS AND REVIEWS

International Journal of Tuberculosis and Lung disease (2012) Editorial

Tropical Medicine and International Health (2014) Review

Research and Reports in Tropical Medicine (2014) Invited Review
 CNN (2014) OpEd—tuberculosis and diabetes
 Al Jazeera (2014) Invited OpEd. Ebola

STUDY GROUPS

- Bill and Melinda Gates Foundation. Global Challenges. 2005
- Canada foundation for Innovation. 2006
- US Civilian Research & Development Foundation. Review of scientific proposals for ISTC for the former Soviet Union. 2004/5
- Uniformed Services University of the Health Sciences. Member of study group. 2005
- Environmental Protection Agency. STAR proposals 2007
- Expert Meeting on Tuberculosis and Diabetes. IUTLD, 2009
- NIH Women's Health Initiative Renewals, Invited Reviewer, 2015
- International Union against Tuberculosis and Lung Diseases. Abstract review 2015

SPECIALIZED EXPERIENCE

- Evaluation of molecularly engineered vaccine candidates in primates and other animal models.
- Design and operation of biosafety level 4 laboratory facilities. Extensive experience in handling viruses in BSL3 and BSL4 level laboratories, both suit and cabinet design. Handling of BSL4 pathogens in field conditions.
- Investigation, management and control of hemorrhagic fever outbreaks in field conditions.
- Experience with animal studies using guinea pigs, mice, rats and rabbits.
- Extensive experience with primate models for study of pathophysiology of viral infections.
- Clinical trials of antiviral agents, including dealings with the FDA and audit of therapeutic trials. Preparation of protocols for clinical studies.
- Design and conduct of vaccine trials.
- Operating a viral diagnostic laboratory both general virology and specialized viral hemorrhagic fever diagnosis in the US, the UK and in developing countries, including West Africa.
- Laboratory studies in the field in Thailand, Peoples' Republic of China, Indonesia, Pakistan, Kenya, Sierra Leone, South Africa and Senegal.
- Managing general diagnostic microbiology laboratories in the UK and in Pakistan.
- Establishment of molecular diagnostic facility in Karachi, Pakistan.
- Techniques in molecular diagnosis of viral infection, particularly polymerase chain reaction and restriction fragment length polymorphism.
- Establishment of molecular virology diagnostic/research laboratory in Pakistan.
- Management of safe blood banking in developing countries.
- Investigation of outbreaks; cholera, CCHF, HCV typhoid and others in Pakistan.
- Investigation of outbreaks of viral disease in primate colonies.
- Design and construction of a Biosafety Level 4 suit laboratory
- Development of large community based cohort in a minority population
- Studies of metabolic and immunological impairment in diabetes and obesity.
- 2009. Member; International working group on diabetes and tuberculosis
- Stop-TB. Member, interim coordinating board.

NON MEDICAL PRESS

Level 4, Virus Hunters of the CDC, Published Turner, 1996. 75,000 copies sold in hardback. Translated into 9 languages. Sold in France, **Chasseurs de Virus**, Presse de la Cité, 1997. (Widely reviewed—used as teaching material in schools and colleges.)

The Coming Plague. Four part CNN documentary. For Turner Original Productions, March 1997

Science Magazine Extended news article March 1998

VSD Magazine. September 1998. Three page article in French.

ELLE Magazine. Three page article, December 1998. In French.

1997-1998, Articles in French National press, including **Le Figaro**.

Television:: **BBC Horizon**: Legionnaires Disease, 1982

Marche du Siècle, 1997

Multiple appearances in the United States and France 1996-1998.

Turner Broadcasting: Viral Hemorrhagic Fevers

Regular advice to national press and television in US, UK and France

Travelers' Health: chapter on hemorrhagic fevers.

COMMUNITY SERVICE

Board Member: Healthy Communities of Brownsville

Board Member: Brownsville Farmers' Market

Member: EXPORT Community Advisory Board

INVITED LECTURES FOR NON SCIENTIFIC AUDIENCES (Selected)

Wellington Lecture, Kansas City. Organized by Science Pioneers. September 27th. 1997

The C.G. Wellington Memorial Lecture series is a tribute to the people of Greater Kansas City in memory of C.G. Wellington, former Executive Editor of The Kansas City Star. Its purpose is to provide Kansas Citizens, and particularly the youth, an opportunity to hear a prominent scientist speak on current research in his or her field of expertise. Mr. Wellington believed that all citizens should be literate to the happenings in science and technology, and it is with this thought a speaker is selected each year.

Yoder Honor Lectureship, Tacoma, Washington, November 1999.

A series of one day lectureships (to include two presentations), now in its 27th year.

Harvard/MIT Hippocratic Society. 2003. Invited Lecturer

Princeton Plasma Physics Laboratory. Science on Saturday lecture

Duke. University MD/PhD program. 2007. Invited lecture for MD/PhD Students science day.

Vanderbilt University, 2008. MD program.

University of Michigan, Ann Arbor, 2010, Invited Speaker for TB day.

Jefferson Lab, Newport News: 2011

Baylor College of Medicine 2012: Invited speaker, Neglected Tropical Diseases

American Lung Association, 2014, Invited speaker. Tuberculosis and Diabetes.

FUNDING

Year	Grant	Award
COMPLETED STUDIES		
1978/80	Regional Health Authority grant to study hepatitis B infection in South London neonates (3 years)	\$50,000
1981	Regional Health Authority grant to study the prevalence of hospital acquired pneumonia due to L. pneumophila in Kingston hospital compared with other opportunistic pathogens	\$25,000
1982/3	Wellcome Trust Grant for the study of Viral Haemorrhagic Fevers (2 years).	\$100,000
1983/6	Medical Research Council Grant Study of diagnostic techniques and post exposure prophylaxis of Simian B virus	\$200,000
1986/7	Wellcome Trust, Grant for the study of the pathophysiology of shock in Lassa fever, and its treatment at the Lassa Fever Research Unit, Segbwema, Sierra Leone..	\$500,000
1987	Rockefeller foundation. Grant for study of hemorrhagic fever with renal syndrome	\$25,000
1987/8	Rockefeller foundation. Grant for clinical studies of the pathophysiology of dengue hemorrhagic fever.	\$50,000
1989	WHO Grant to make documentary film on hemorrhagic fevers.	\$30,000
1993	Aga Khan University. Seed money grant. Study of hepatitis C in the Punjab	\$10,000
1995	WHO. Establishment of STD clinics for truck drivers and transvestites in Karachi	\$20,000

1995	World Aids Foundation. Training grant for clinical and laboratory diagnosis of STDs in Pakistan	\$52,000
1995	Pasteur/Mérieux. OPV type 3 excretion and neutralizing antibody response following different schedules of polio vaccine (OPV, OPV-EIPV).	\$250,000
1997	INCO, DGXII. Adaptation and field evaluation of an RT-PCR technique to detect the RNA genomes of haemorrhagic fever viruses	250,000 ECU
1998	DGXII. Diagnosis of viral hemorrhagic fevers--meeting	50,000 ECU
2002	Sandia Corp. Contract to establish surveillance system	\$8,000
2002	Texas Department of Health: PI Consultation contract with the South Texas Health Care Center. Advice and consultations on establishment of BSL2+ facilities and protocols for the TDH tuberculosis diagnostic laboratory.	\$6,683
2003/4	NAIAD, NIH. Emerging MDR Tuberculosis across the US/Mexico Border. 1 R21 AIO56207-01 , Co-PI , NIAID Biodefense Research program	\$400,000
2003	CDC. TB Elimination Division TBES Consortium, Task Order # 9 (Texas). PI South Texas survey. Tuberculosis in Foreign Born Patients	\$68,008
2003/4	CDC: Investigation & Technical Assistance, Bioterrorism Preparedness Center. 5% effort Co-Investigator start date 2003 –2004,	\$1,248,042
2006/8	NIAID R21 Rapid Characterization of mycobacterial and drug resistance in Paucibacillary TB. PI Blanca Restrepo.	\$275,000
2005-10	NIH Minority Fellowship. NIH - 1F31AI61836-01A1. Sponsor for Jaymie Estrella, predoctoral fellow.	\$150,000
2006/8	NIAID Project Title: Rapid Characterization of Mycobacteria and Drug Resistance in Paucibacillary TB. Principal Investigator: Dr. Blanca Restrepo. Grant Number: 1R21AI064297-01A1.	\$275,000
2007/8	Biological and genetic factors associated with obesity in Hispanic UTH/UTB Borderplex initiative, Co-PI with Dr. Saraswathy Nair	\$50,000
2003/13	<u>NIH. Creation of an Hispanic Health Research Center in the Lower Rio Grande Valley (EXPORT).</u> Renewed, 2008. Co-PI overall and PI on pilot studies module and molecular core module. Brownsville PI on Diabetes core. MD000170 P20 funded from the National Center on Minority Health and Health Disparities (NCMHD). Renewal, PI Diabetes Core	\$14,000,000
2006/13	Vaccine and Treatment evaluation unites (VTEUs): NIAID. Evaluation of Control measures against diseases other than AIDS.. Baylor college of Medicine. PI for Brownsville Clinical Research Unit component for Minority Populations.	\$7,500,000
2009/10	Preventing obesity and diabetes and their consequences in Mexican Americans PI McCormick	\$250,000
2009/10	UT system Borderplex. Innate immune response in chronically hyperglycemic Diabetes Mellitus (CHDM) patients. PI Shaper Mirza. 1 year.	\$50,000
2009/10	Texas Diabetes Council Start Model of Community. PI Reininger	\$500,000
2009/10	NIAID. Uncontrolled diabetes, immune dysregulation and tuberculosis. PI Blanca Restrepo.	\$250,000
2014-17	CPRIT: Using Project ECHO telementoring to increase access to Diagnosis and Treatment of Pre-Invasive Cervical Disease	\$761.689

	Along the Texas-Mexico Border Multiple PIs Kathleen Schmeler (MDACC) and Susan Fisher-Hoch	
2014-17	Predication of chronic kidney disease in Hispanic populations PI Jonathan Starkey, subcontract PI, Susan Fisher-Hoch	\$45,342
2018-2023	R01,. Genomics of HCC in the Hispanic Population of Texas sub contract PI; PI Beretta MDAnderson	\$392,042
2016-2022	R01, Hispanic Latino Lipid Consortium, Co-investigator; PIs, McCormick, North (UNC), and Piper Below (Vanderbilt)	\$139,805
2018-2021	R01. Genetic Determinants of Lipidomic Variation and Their Role in CVD Risk. Sub contract PI; PI Curran (UTRGV)	\$345,916
<u>CURRENT FUNDING</u>		
2019-2021 2022-2025	CPRIT. Expansion of cervical cancer prevention services to medically underserved population, Sub contract PI; PI Schmeler (MDAnderson)	\$709,570
2019-2024	SPORE; Non-invasive assessment of liver fibrosis stage and progression in obesity and diabetes; a Hispanic population study. Sub contract PI; PI Beretta (MDAnderson)	\$500,000
2019-2024	UL Center for Clinical and translational Sciences (CCTS) PI McPherson Clinical Research Unit Brownsville.	\$54,623,282
2021-2026	R01 Pharmacogenetics of the Response to GLP-1 in Mexican-Americans with Prediabetes (Clinical Trial) PI Gutierrez	\$3,995,207
2021-2026	Google: the Vanderbilt Medical Center COVID-19 Project	\$824,986
2021-2024	Valley Baptist Legacy Foundation. Support for the establishment of a Public Health Laboratory and an integrated health data management system for the Cameron County and major municipalities. PI Fisher-Hoch	\$750
2020-2024	RADX: Understanding and Addressing COVID-19 testing disparities in vulnerable populations: A multilevel and multi-method approach (CCTS) PI McPherson	\$3,245,280
2021-2015	City of Brownsville, Cameron County, City of South Padre Island. Establishment of a Cameron County Public Health Laboratory (CLIA approved)	
2023-2027	Hispanic Latino Lipid Consortium, PI North, UNC	\$594,621.00
2022-2026	Type 2 Diabetes and Changes in Bone Quality and Density in Mexican Americans	\$2,282,164
2023-2027	U01: Multiomics for obesity-associated liver disease discovery in Hispanics/Latinos: The Cameron County Hispanic Cohort	\$4,015,081
2023-2025	PREVENTABLE study of older adults.	
2023-2026	CPRIT Prevention of cervical Cancer in low income communities	
2020-2024	R01: Role of circulating Abeta Seeds and Peripheral Tissue Damage in Alzheimer's Disease Pathogenesis,	\$584,629
2023-2028	R01: Genomic, transcriptomic, and metabolic effects on skeletal health in Mexican Americans	\$2,489,144
2023-2028	CPRIT: Whole Genome DNA Methylation Markers for Tracking and Predicting Advanced Liver Fibrosis as a Precursor of Liver Cancer in NAFLD	\$664,893

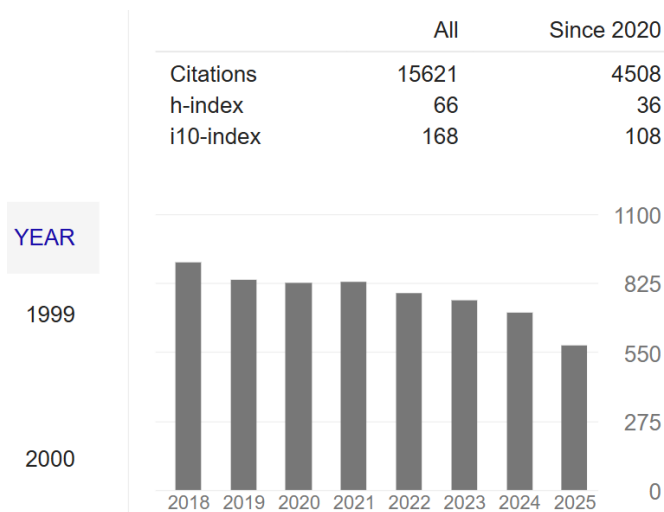
2019-2025	N3c AND All of Us Research Program Collaborative	\$292,355
	<u>UNDER REVIEW</u>	
2022-2027	Social and contextual factors, epigenetic changes, and diabetes risk in Mexican Americans	\$3,143,192.00
2021-2025	Severe obesity transcriptomics in a vulnerable population PI North, UNC	\$103,941.00
2023-2028	Integrative analysis of genetic, transcriptomic and cardiometabolic risk data and progression of fibrosis to liver cancer in a high-risk Hispanic/Latino population	\$3,260,783.00

OTHER ACTIVITIES AND SKILLS

- MMWR articles and guidelines.
- Expert advice to counsel for public enquiry into Legionnaires' disease outbreak at Stafford hospital.
- Computer skills--use of software including database management for laboratory and field studies and SAS statistical analysis.
- Expert advice on COVID-19 to hospital and City of Brownsville

INTERESTS: Skiing, Cycling , Music, Languages, Literature, History, Art, Cooking, Oriental Carpets, Fine Wines. Birds.

PUBLICATIONS



1. Nagarajan, p.T. W. Winkler, A. R. Bentley, C. L. Miller, A. T. Kraja, K. Schwander, **Fisher-Hoch, S.P.** 2025 et al. A large-scale genome-wide study of gene-sleep duration interactions for blood pressure in 811,405 individuals from diverse populations Mol Psychiatry 2025 Vol. 30 Issue 8 Pages 3660-3672
2. Wang, H., Nagaran, P., Winkler, T., **Fisher-Hoch, S.P.** et al/ 2025 A Large-Scale Genome-Wide Study of Gene-Sleep Duration Interactions for Blood Pressure in 811,405.
3. Xu, H.S. Gupta, I. Dinsmore, A. Kollu, A. M. Cawley, M. Y. Anwar, **Fisher-Hoch S.P.** et al. 2025 Integrating genetic and transcriptomic data to identify genes underlying obesity risk loci Int J Obes (Lond) 2025
4. J. C. Rico, A. Alaeddini, S. H. A. Faruqui, **S. P. Fisher-Hoch** and J. B. McCormick 2025 A Generative Framework for Predictive Modeling of Multiple Chronic Conditions Using Graph Variational

5. Petty L. EChen., H. H., Frankel E. G., Zhu W., Downie C. G., Graff M., **Fisher-Hoch, S.P.** et al. 2025 Large-scale multi-omics analyses in Hispanic/Latino populations identify genes for cardiometabolic traits Nat .Commun 2025 Vol. 16 Issue 1 Pages 3438
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