

## CURRICULUM VITAE

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### MEDICAL DEGREES, POSTGRADUATE QUALIFICATIONS AND HONORS

- 1975 **MB,BS, First Class**, 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 viral 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,)
- 1981 **Member of the Royal College of Pathologists (Virology).** (5 years residency in pathology, and by examination, as regulated by the College)
- 1989 **EFCMG**

### HONORS

- 1999 **Chevalier de la Légion d'Honneur** from the President of the French Republic, M. Chirac to recognize the creation of a BSL4 laboratory in Lyon.
- 2000 **Medale de la Ville de Lyon**, by Mr. Raymond Barre
- 2000` **Priz Scientifique, Groupe Paris Lyon.**

### 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, 2eme 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)**  
 Elizabeth Garrett Anderson Scholarship (Fishmonger's 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

**1987-1988** **London School of Hygiene and Tropical Medicine**  
 Masters degree course in Medical Microbiology

**Languages** French and Italian (fluent)  
 Spanish (elementary)  
 Russian and Urdu (rudimentary)

#### **CURRENT POST**

**2000 to present** **Professor, University of Texas Houston School of Public Health at Brownsville, Texas.**  
**2001** **Faculty, University of Texas Health Sciences Center, Houston. Graduate School of Biomedical Sciences.**

#### **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 on **Associate Professor**, Emory School of Public Health  
 1982 on **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
- 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 1<sup>st</sup> International Emerging Diseases Conference.
- 2000** **CDC Atlanta:** BSL4 laboratory users group
- 2000** **Nigeria.** Investigation and laboratory support for epidemics of Lassa fever

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, Biological Sciences. Responsibility for design and establishment of molecular epidemiology facilities at the UT Houston School of Public Health Regional Campus at Brownsville. Recruitment of scientists, equipment of laboratory and development of scientific program.

### **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.

### **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**

Academic Advisory Committee  
 Culminating Experience Committee  
 Epidemiology Curriculum Committee  
 Global Health Committee

### **REVIEWS AND EDITORIALS**

- Lancet (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

## STUDY GROUPS

- Bill and Melinda Gates Foundation. Global Challenges 2004
- US Civilian Research & Development Foundation. Review of scientific proposals for ISTC for the former Soviet Union
- Uniformed Services University of the Health Sciences. Member of study group

## 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 trial. Preparation of protocols for clinical studies.
- Submission and establishment of vaccine trial.
- 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

## NON MEDICAL PRESS

**Level 4, Virus Hunters of the CDC**, Published Turner, 1996. 50,000 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 Siecle**, 1997

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

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

### INVITED LECTURES FOR NON SCIENTIFIC AUDIENCES

**Wellington Lecture, Kansas City.** Organized by Science Pioneers. September 27<sup>th</sup>. 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 Lecturship, Tacoma, Washington,** November 1999.

*A series of one day lectureships (to include two presentations), now in it's 27th year.*

**Harvard/MIT Hippocratic Society.** 2003. *Invited Lecturer*

**Princeton Plasma Physics Laboratory.** *Science on Saturday lecture.*

### GRANTS HELD

Year	Grant	Award
1978	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 <i>L. pneumophila</i> in Kingston hospital compared with other opportunistic pathogens.(1 year).	\$25,000
1982	Wellcome Trust Grant for the study of Viral Haemorrhagic Fevers (2 years).	\$100,000
1983	Medical Research Council Grant (3 years) Study of diagnostic techniques and postexposure prophylaxis of Simian B virus	\$200,000
1986	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. (2 years).	\$500,000
1987	Rockefeller foundation. Grant for study of hemorrhagic fever with renal syndrome	\$25,000
1987	Rockefeller foundation. Grant for clinical studies of the pathophysiology of dengue hemorrhagic fever. (2 years).	\$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/Merieux. 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 ongoing	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. 1 year	\$6,683
2003 ongoing	<u>NIH. Creation of an Hispanic Health Research Center in the Lower Rio Grande Valley</u> (EXPORT). 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). Start date February 1, 2003.; 5 years. Contributed to design and writing of grant, particularly administrative, diabetes, molecular and pilot studies cores. Responsible for establishment and conduct of the molecular (Brownsville PI), diabetes (Brownsville PI) and pilot studies (overall PI) cores	\$ 7,480,433
2003 ongoing	NAIAD, NIH. Emerging MDR Tuberculosis across the US/Mexico Border. 1 R21 AIO56207-01 , Co-PI , October 1, 2003 – September 30, 2005, \$. NIAID Biodefense Research program	\$400,000
2003 ongoing	CDC. TB Elimination Division TBES Consortium, Task Order # 9 (Texas). PI South Texas survey. Tuberculosis in Foreign Born Patients	\$68,008
2005 ongoing	NIH Minority Fellowship. NIH - 1F31AI61836-01A1. Sponsor for Jaymie Estrella, predoctoral fellow. 5 years	\$150,000
2003/4	CDC: Investigation & Technical Assistance, Bioterrorism Preparedness Center. 5% effort Co-Investigator start date August 1, 2003 – September 30, 2004,	\$1,248,042
2006/8	NIAID Project Title: Rapid Characterization of Mycobacteria and Drug Resistance in Paucibacillary TB. 2% effort. Principal Investigator: Dr.Blanca Restrepo. Grant Number: 1R21AI064297-01A1.Awarding Agency: NIH/National Institute of Allergy and Infectious Disease	\$275,000
<b>Submitted</b>		
2006	R21: Social Cognitive Disaster Preparedness Communication for Mexican Americans NIH	\$275,000
2006	P20 NIMHD. Center OF Excellence on Diabetes in Americans of Mexican Descent. Co-PI	\$7,000,000

#### **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.
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**INTERESTS:** Skiing, Running, Backpacking, Music, Languages, Literature, History, Art, Cooking, Oriental Carpets, Fine Wines.

## PUBLICATIONS

### Peer Reviewed Papers

1. **Fisher-Hoch SP**, Hudson,M.J., Thompson,M.H. Identification of an isolate as *Legionella pneumophila* by gas chromatography and mass spectrometry of cellular fatty acids **Lancet** 1979;ii:323-325.
2. Beare,J., Dunnill,M.S., **Fisher-Hoch SP**, French,M., Mitchell,R.G., Morris,P.J., Muers,M.R, Tobin J.O'H. Legionnaires' disease in a transplant unit with isolation of the causative agent from the water supply. **Lancet** 1980;ii:118-121
3. Hudson,M.J., Thompson,M.H., Cohen,A. **Fisher-Hoch SP** Laboratory confirmation of *Legionella pneumophila* isolates by gas-liquid chromatography of cellular fatty acids and by 'Api-Zym' profile. **J.Med.Microbiol.** 1980;13:viii
4. **Fisher-Hoch SP**, Bartlett,C.L.R., Tobin,J.O'H, et al, Investigation and control of an outbreak of Legionnaires' Disease in a District General Hospital. **Lancet** 1981;i:932-936
5. **Fisher-Hoch SP** Rogers,T.M. Cyclosporin-A and Herpesvirus infections in bone marrow transplant patients. In: Proc. 5th. European Symposium of Bone Marrow Transplantation in Europe. Ed. Towarrie, Gluckman Griscelli. **Excerpta Medica**, Amsterdam, 1981;297-301
6. Oswald GA, Theodossi A., Gazzard BG, Byrom NA. **Fisher-Hoch SP**. Attempted immune stimulation in the 'gay compromise syndrome'. **Br.Med.J** . 1982;285 1082
7. **Fisher-Hoch SP**. Investigation and control of an outbreak of Legionnaires disease in a district general hospital. **Respiratory Diseases Digest**, March 1982:15
8. Morgan-Capner P, Burgess, **Fisher-Hoch SP**, Radial haemolysis for detection of rubella antibody in acute post-natal rubella. **J.Hyg.Camb.** 1982;89:311-320
9. **Fisher-Hoch SP** The haemostatic defect in Viral Haemorrhagic fevers. **Br.J.Haematol.** 1983;55:565-571
10. **Fisher-Hoch SP**, Platt GS, Lloyd G, Simpson DI, Neild GH, Barrett AJ. Haematological and biochemical monitoring of Ebola infection in rhesus monkeys: implications for patient management. **Lancet** 1983; 2: 1055-1058.
11. Griffiths PD, Girdhar RD, **Fisher-Hoch SP**, Race MW. et al. Antibody against viruses in maternal and cord sera non-specific inhibitors are found to higher titer on the maternal side of the circulation. **J.Hyg.** 1984;92:297-301
12. Colbourne JS, Pratt DJ, Smith MG, **Fisher-Hoch SP**, Harper D. Water fittings as sources of *Legionella pneumophila* in a hospital's plumbing system. **Lancet** 1984;i:210-213
13. **Fisher-Hoch SP**, McCormick JB. 1985 Hemorrhagic Fever with Renal Syndrome: A review. Abstracts on Hygiene and Communicable Diseases ;60:R1-R20
14. Baskerville A., **Fisher-Hoch SP**, Neild GH, Dowsett AB. Ultrastructural pathology of Ebola haemorrhagic fever virus infection **J.Pathol.** 1985;147:199-209.
15. **Fisher-Hoch SP**, Price,M.J., Craven,R.B., Price, F., Forthal, DNF, Sasso,D., Scott,S.M., Elliott,L.E., McCormick.J.B. Safe intensive care management of a severe case of Lassa fever using simple barrier nursing techniques. **Lancet** 1985;ii:1227-1229
16. **Fisher-Hoch SP**, Simpson, D.I.H. Dangerous Pathogens. In Antiviral agents and chemotherapy. **Br.Med.Bull** 1985;41:391-395.
17. **Fisher-Hoch SP**, Platt GS, Neild GH, Southee T, Baskerville A, Raymond RT, Lloyd G, Simpson DIH. Pathophysiology of shock and hemorrhage in a fulminating viral infection (Ebola). **J Infect Dis** 1985;152:887-94.
18. **Fisher-Hoch SP**, Mitchell SW, Sasso DR, Lange JV, Ramsey R., McCormick J.B. 1987 Physiological and immunological disturbances associated with shock in a primate model of Lassa fever. **J.Infect.Dis**;155:465-474.
19. Anderson EA, Williams SM, **Fisher-Hoch SP**, Wilkinson PJ. Arachidonic acid metabolites in the pathophysiology of thrombocytopenia and haemorrhage in acute African swine fever. **Res.Vet.Sci.** 1987;42:387-394.

20. **Fisher-Hoch SP**, McCormick JB (1987) Pathophysiology and treatment of Lassa fever. **Curr.Topics in Microbiol and Immunol.** 134:231-240.
21. **Fisher-Hoch SP.** 1987 Pathophysiology of shock and haemorrhage in viral haemorrhagic fevers. **Southeast Asian J.Trop.Med.Public Health** 18:390-391.
22. Anderson LJ, Hadler SC, Lopez C, Jarvis C, Jarvis WR, **Fisher-Hoch SP**, Bond WW, Fishbein DB. **Nosocomial Viral Infections.** Chapter 2. 12-38
23. Price ME, **Fisher-Hoch SP**, Craven RB, McCormick JB. 1988 Prospective study of maternal and fetal outcome in acute Lassa fever during pregnancy. **Br Med J** ;297:584-588
24. **Fisher-Hoch SP**, McCormick JB, Sasso D, Craven RB. Hematologic dysfunction in Lassa fever. **J. Med Virol.** 1988;26:127-135.
25. Hirabayashi Y, Oka S, Goto H, Shimada K., Kurata T., **Fisher-Hoch SP**, McCormick JB. An imported case of Lassa fever with late appearance of polyserositis. **J. Inf. Dis.** 1988 158:872-875.
26. Cummins D, **Fisher-Hoch SP**, Walshe K., Mackie IJH., Bennett D, Perez G, Farrar B, Machin SJ, McCormick JB. A plasma inhibitor of platelet aggregation in patients with Lassa fever. **Br. J. Hematol.** 1989;72:543-548.
27. Roberts.PJ., Cummins D. Bainton AL, Walshe K, **Fisher-Hoch SP**, McCormick JB, Gribben JG, Machin,S.J., Linch,D.C. Plasma from patients with severe Lassa fever profoundly modulates f-Met-Leu-Phe-induced superoxide generation in neutrophils. 1989 **Br. J. Hematol.**;73:152:157.
28. Warrell MJ, White NJ, Looareesuwan Si, Phillips RE, Suntharasamai P, Chanthavanich P, Riganti M, **Fisher-Hoch SP**, Nicholson KG, Manatsathit Sa, Vannaphan S, Warrell DA. Failure of alpha-interferon or ribavirin treatment of rabies encephalitis. **British Medical Journal**, 1989. 1989;299:830-833.
29. Hirabayashi U, Oka S, Goto H, Shimada K, Kurata T, **Fisher-Hoch SP**, McCormick JB. The first imported case of Lassa fever in Japan. **Nippon Rinsho** 1989;47:71-75.
30. **Fisher-Hoch SP**, McCormick JB, Auperin,D., Brown,B.G., Castor,M., Perez,G., Ruo,S., Conaty,A., Brammer,L., Bauer,S. 1989 Protection of rhesus monkeys from fatal Lassa fever by vaccination with a recombinant vaccinia virus containing the Lassa virus glycoprotein gene. **PNAS** 85:317-321.
31. Cummin D, Bennett D, **Fisher-Hoch SP**, Farrar B, McCormick JB. Electrocardiographic abnormalities in patients with Lassa fever. **J. Trop. Med. & Hyg.** 1989;92:350-355.
32. Tang.YW, Ruo S., Sanchez A., **Fisher-Hoch SP.** , McCormick JB, Xu ZY. Hantavirus strains isolated from rodentia and insectivora in rural China differentiated by polymerase chain reaction assay. **Arch.Virol** 1990 115:37-46
33. Cummins,D, McCormick JB., Bennett D, Samba JA, Farrar B. Machin SJ. **Fisher-Hoch SP.** Acute sensori neural deafness in Lassa fever. **JAMA.** 1990;264:2093-2096
34. Holmes GP, McCormick JB, Trock SC, Chase RA, Lewis SM., Mason CA, Hall PA, Brammer LS, Perez-Oronoz. G, McDonnell MK, Paulissen JP, Schonberger LB, **Fisher-Hoch SP.** Lassa fever in the United States: Investigation of a case and new guidelines for management. **NEJM** 1990;323:1120-1123.
35. Ruo SL. McCormick JB, Mitchell SW, Roumillat LF, Kiley MP, **Fisher-Hoch SP.** 1990 Antigenic relatedness between arenaviruses defined at the epitope level by monoclonal antibodies. **J.Gen.Virol** 1991;72:549-555
36. Ruo.SL, Brammer L, Castor ML, Sanchez A., **Fisher-Hoch SP**, McCormick JB, Monoclonal antibodies to three strains of hantaviruses: Hantaan, R22 and Puumala. **Arch.Virol** 1991;119:1-11.
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**Abstracts and Presentations: Numerous, unlisted.**