



Global Fungal Infection Forum 4

Developing a coalition roadmap for integration of fungal disease pathways and AMR solutions into health systems in Latin America

Lima - Peru

September 3-5, 2019



CPD CREDITS: 18 hours

Developing a coalition roadmap for integration of fungal disease pathways and AMR solutions into health systems in Latin America

To all participants,

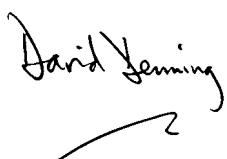
Welcome to the 4th Global Fungal Infection Forum. The agenda has been developed with the help of PAHO and CDC. Fungal diseases are poorly represented by most global health organizations and national public health bodies. Latin America has many endemic fungal infections affecting otherwise healthy people. Further, among those with HIV, TB, cancers and other conditions, fungal diseases can be lethal, for example killing a large proportion of patients with AIDS. Under-diagnosis and missed diagnoses are likely common, partly due to the limited historic availability of both diagnostic tests and treatments.

Over the past decade, there has been a remarkable revolution in fungal diagnostics moving from conventional culture and microscopy to antigen and antibody detection, commercial and standardized PCR and recently MALDI-TOF identification. These diagnostic tools have transformed the speed and sensitivity of diagnosis. Digital radiology now allows distance interpretation of images, allowing expertise to reach small and remote communities, if they are linked up. But in most hospitals and clinics, very few patients are benefitting from these modern technologies.

So new thinking is required to respond to key health system questions: How can these new diagnostic tools best be used? Which level clinic, hospital and/or reference laboratory? How should these data be integrated into clinical care algorithms? Fungal disease management is often complex – how do we ensure top level clinical expertise accompanies the test results, whether positive or negative? Non-culture tests are faster and more sensitive but don't detect antifungal resistance. How should empiric antifungal therapy and antifungal stewardship be informed by non-culture based diagnostics? How should these data be collected and integrated for public health surveillance? Who should pay for these diagnostic tests? And how is a system of fungal disease care coordinated? And by whom?

Hence we greatly appreciate your participation in this important meeting. We hope that you leave more fully informed about the opportunities for reducing morbidity and mortality in your country, along with new ideas and concrete plans for shifting health systems across the continent to better tackle serious fungal diseases.

Welcome to Lima!



David W. Denning FRCP, FRCPath, DCH, FIDSA , FMedSCi, FECMM
Chief Executive, Global Action Fund for Fungal infections

Juan Luis Rodriguez Tudela MD PhD
Senior Medical Adviser, Global Action Fund for Fungal infections

Donald C. Cole MD MSc
Emeritus Professor, Dalla Lana School of Public Health, University of Toronto
Senior Adviser, Global Action Fund for Fungal infections

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Day 1 – September 3rd, 2019

Room 1

Session 1: Opening remarks

Chair: Juan Luis Rodriguez Tudela (GAFFI)

- 8:00 Registration
- 9:00 Welcome and meeting introduction and objectives - David Denning, GAFFI
- 9:10 Introduction from PAHO
- 9:20 Introduction from CDC - Tom Chiller, CDC

Setting the scene

- 9:30 GAFFI's mission and opportunities for reducing morbidity and mortality
Juan Luis Rodriguez Tudela - GAFFI
- 9:50 Scale of the fungal disease problem in Latin America in AIDS, cancer, after TB, asthma, endemic fungal infections, NTFDs (skin and keratitis)
Flávio Queiroz Telles (Brazil)
- 10:10 The Diagnostic Laboratory Hub example
Eduardo Arathoon (Guatemala)

10:30 Break

Room 1

Session 2: Fungal diagnostics

Chair: Jeannete Zurita (Ecuador)

- 11:00 Fungal diagnostics - the easy, the "standard" and the complex
Guillermo García Effron (Argentina)
- 11:25 The work of the Central Laboratory of Public Health of Paraguay in Mycology
Lizzie Carolina Aquino (Paraguay)
- 11:35 Microbiology laboratory landscaping in Latin America – who can do what?
Agustina Forastiero, PAHO consultant (Argentina)
- 11:55 The affordable mycology laboratory
Marina Macedo-Viñas (Uruguay)

Session 3: Buzz group session (Fungal diagnostics)

- 12:15 Split into 3 groups to discuss models of diagnostic testing:
a) Public health reference laboratory testing **Room 1**
b) Near patient testing (POC) **Room 2**
c) Specialist, referral hospital testing **Room 3**
- 13:00 Summary from each group and panel discussion
“Best model(s) of delivering fungal diagnostics”
Jeannete Zurita, Gladys Estigarribia, Marina Macedo-Viñas, Eduardo Arathoon

13:30 Lunch Break

Room 1

Session 4: Patient complexity – examples

Chair: Flavio Queiroz Telles (Brazil)

- 14:30 Cryptococcosis/Histoplasmosis screening – 2 examples
Eduardo Ticona (Peru)
- 14:55 Managing “smear negative TB” – 2 examples
Ana Belén Araúz (Panama)

Discussion

Room 1

Session 5: Supporting capacity development

Chair: Giovanni Ravasi (PAHO)

- 15:20 Online resources – dissemination and motivation
Juan Luis Rodríguez Tudela (GAFFI)
- 15:40 Advanced focused education - Masters courses in Medical Mycology, Laboratory Management, Epidemiology and Histopathology, courses and workshops
Eduardo Alvarez-Duarte (Chile)
- 16:05 Overview of WHO technical guidance on fungal infections in persons with HIV
Nathan Ford (WHO, Geneva)
- 16:25 National Guidelines development
Flavio Queiroz Telles (Brazil)
- 16:45 Panel discussion – Education and guidelines for country or the region?
Giovanni Ravasi, Juan Luis Rodriguez Tudela, Eduardo Alvarez-Duarte, Nathan Ford, Flavio Queiroz Telles, Luis Ostrosky-Zeichner (Houston)
- 17:30 Close
- 18:00 Welcome cocktail**
- Novotel lobby**

Day 2 – September 4th, 2019

Room 1

Session 6: Problem fungal diseases

Chair: Ricardo Rabagliati

- 8:30 Serious endemic fungal infections in Latin America
Fernando Riera (Argentina)
- 8:50 Fungal complications in AIDS
Jose Vidal (Brazil)
- 9:10 Fungal complications of cancer and critical care
Jorge Cortés (Colombia)
- 9:30 Pulmonary fungal infections – “smear negative TB” and fungal asthma
Flavio Queiroz Telles (Brazil)
- 9:50 Panel discussion on “What can we do better?”
Ricardo Rabagliati, Fernando Riera, Jose Vidal, Jorge Cortés, Arnaldo Colombo

10:30 Break

Room 1

Session 7: Antifungal therapy and resistance

Chair: Gladys Estigarribia (Paraguay)

- 11:00 How good are our current antifungal drugs
Gloria Celeste Aguilar Barreto (Paraguay)
- 11:20 Scale of the antifungal resistance problem in Latin America
Jeannete Zurita (Ecuador)
- 11:50 Fungal diagnostics and antimicrobial stewardship
Dora Corzo-León (Mexico)
- 12:10 WHO GLASS program for antifungal resistance
Nienke Bruinsman, PAHO (USA)
- 12:30 Digital connectivity of Laboratory Information Management Systems
Agustina Forastiero (Argentina)
- 12:45 Panel discussion on antifungal resistance – “minimization, detection, surveillance”
Gladys Estigarribia, Gloria Celeste Aguilar Barreto, Jeannete Zurita, Dora Corzo-León, Nienke Bruinsman, Agustina Forastiero

13:15 Lunch Break

Parallel sessions

Room 1

Session 8a: Antifungal resistance and WHO GLASS

Chair: Nienke Bruinsman (PAHO)

- 14:15 Introduction to the GLASS Early implementation protocol for inclusion of *Candida spp*
Nienke Bruinsman, PAHO (USA)

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14:55 Implementation process of the protocol in Latin America; national coordination
Agustina Forastiero (Argentina)

15:15 (External) Quality Assurance of Species Identification and AFST & Challenges
Cristina Canteros (Argentina)

15:30 Data management, Information systems & Analysis
Agustina Forastiero (Argentina)

15:45 Break

16:15 Country examples of national fungal AMR surveillance

- Peru: Flor Urcia
- Argentina: Cristina Canteros
- Venezuela: Maribel Dolande

16:45 Discussion of country participation in the early implementation
Moderator: Tom Chiller, CDC, Atlanta

17:00 Conclusions, Products and Next steps

Room 2

Session 8b: Imaging and data connectivity

Chair: Luis Cuellar (Peru)

14:15 The role of imaging
Miguel Trelles (Peru)

14:50 The potential for artificial intelligence radiology reporting
Alex Risman (USA)

15:15 Digital radiology and remote reporting opportunities
Miguel Trelles (Peru)

Discussion

Session 8b: Possible solutions for specific problems – breakout sessions:

15:40 **Group 1** - Screening for cryptococcal, histoplasma and other infections in AIDS
Matilde Roman (Nicaragua) **Room 3**

15:40 **Group 2** - TB services, fungal antibody testing and changing clinical and diagnostic practice
Jose Pereira (Paraguay) **Room 2**

16:30 Break

17:00 Feedback from sessions.

17:30 Close

20:00 Dinner – Le Café Restaurant / Swissôtel

Day 3 – September 5th, 2019

Room 1

Session 9: Health economics

Chair: Donald Cole, Toronto

- 8:30 Can private healthcare support healthcare systems improvement in Latin America?
Carlos Arturo Alvarez (Colombia)
- 8:50 PAHO procurement on behalf of countries - PAHO speaker
- 9:05 Funding fungal diagnostic tests and antifungal drugs by country – how it does and does not work – focus on LMICs (10 min summaries):
4 questions – “Which diagnostic tests are available, who pays for them, which drugs are available and who pays for them?”
- Nicaragua Alberto Montoya Perez
 - Cuba Mayda Perurena
 - Dominican Republic Luis Gabriel Caminero Rodriguez
 - Costa Rica Marlen Arce
 - Honduras Jose Sanchez
 - Peru Pablo Campos

10:30 Quick coffee break

Parallel sessions

Room 2

10:45 **Session 10a: Group A:** Chairs: Beatriz Bustamante & Marlen Arce Villalobos

Agreeing a blueprint for improved diagnostics

- a) Tests in local hospitals and clinics
- b) Tests in referral centres and university hospitals
- c) Diagnostic reference centres (best locations, portfolio of specialized tests and additional functions)
- d) LIMS, fungal disease and antifungal surveillance

Room 3

Session 10b. Group B: Chairs: Donald Cole & Hibeb Silvestre Tuch

Funding for improved care

- a) Diagnostic costs
- b) Antifungal drug costs and access (licensing needs, inclusion in HIV/TB/NTD donor contributions/universal health coverage, inclusion in country guidelines)
- b) Improving infrastructure
- c) Human capacity development

12:30 Feedback from sessions and from each country.

Room 1

13:15 The way forward

Chairs: Giovanni Ravasi and Juan Luis Rodriguez Tudela

- Report(s) of the meeting
- Potential donor contributions, especially capacity training and direct education
- Regional collaborations

13:30 Lunch break and close

Speakers and chairpersons biographies



Professor David W. Denning, GAFFI; University of Manchester UK

Dr. Denning is an infectious diseases clinician with expertise in fungal diseases. He serves as the Chief Executive of the Global Action Fund for Fungal infections (GAFFI) and Professor of Infectious Diseases and Global Health at the University of Manchester, UK. Dr Denning manages the National Aspergillosis Centre (NAC), Manchester, a referral centre in the UK for all patients with chronic pulmonary aspergillosis. His current foci of interest are chronic and allergic pulmonary fungal disease, the global burden of fungal infection, and azole resistance in *Aspergillus*. David is also involved in teaching, for both clinical scientists and physicians. He leads LIFE (Leading Internal Fungal Education: www.life-worldwide.org/), which is focused on improving patient outcomes through advocacy and education (y en español). He was instrumental in the establishment of the Mycology Reference Centre in Manchester (MRCM), which grew out of the Fungal Testing Laboratory he had founded. NAC and MRCM were jointly designated by the European Confederation of Medical Mycology as a Centre of Excellence in Clinical and Laboratory Mycology and Clinical Studies, achieving diamond status. He is the founder of 2 biotechnology companies – F2G Ltd (antifungal drug development) and Myconostica Ltd.



Dr Tom M. Chiller, MD, MPHTM. Centers for Disease Control and Prevention (CDC), Atlanta, USA

Dr. Chiller is the Chief of the Mycotic Diseases Branch of the CDC. As Branch Chief, Dr. Chiller provides leadership and support for fungal disease activities nationally and internationally. With over 25 years of experience in global health, Dr. Chiller also serves as the Associate Director for Global Programs in the Division of Foodborne, Waterborne, and Environmental Diseases (DFWED). Previously, Dr. Chiller has held numerous positions in DFWED including Associate Director for Epidemiologic Science and lead of the National Antimicrobial Resistance Monitoring System for Enteric Bacteria (NARMS). He remains actively involved in antimicrobial resistance activities for fungal and enteric diseases. Dr. Chiller received his medical and public health degrees from Tulane University. He completed a residency in internal medicine at University of Texas, Southwestern. He completed a fellowship in infectious diseases and mycoses at Stanford University and then joined CDC in 2001 to train in infectious disease epidemiology as an Epidemic Intelligence Service (EIS) officer.



Professor Juan Luis Rodríguez Tudela, MD, PhD. GAFFI

Juan Luis was born in Madrid in 1958. He gained his MD from Complutense University of Madrid. He is a Specialist in Clinical Microbiology and studied for his PhD at the Autonomous University de Madrid. Juan Luis was the founder of the medical Mycology Reference Laboratory of Spain at the National Centre for Microbiology of Instituto de Salud Carlos III. He served as Director National Centre for Microbiology of Instituto de Salud Carlos III from 2000 to 2003. His last position at National Centre for Microbiology of Instituto de Salud Carlos III was as Director of the Department of Bacteriology, Mycology and Parasitology. He has run a variety of research projects and scientific activities focused on fungal infections afflicting humans, early diagnosis of invasive fungal infections, standardization of antifungal susceptibility testing, resistance mechanisms, and taxonomy of fungal species. Juan Luis has published over 230 original articles. Juan Luis has served as member of several international associations, ex-Chairman of the Steering Committee of the Antifungal Subcommittee of Antifungal Susceptibility Testing of

the European Committee of Antimicrobial Susceptibility Testing (AFST-EUCAST) and advisor of the PAHO on the Antifungal Resistance Surveillance Network in Latin-America. He or members of its laboratory have run several workshops focused in diagnosis and resistance detection of fungi in different countries of American continent as Argentina, Brazil, Chile, Colombia, Cuba, and Mexico.



Professor Donald C. Cole MD MSc; University of Toronto

Donald trained as a physician and practised primary care, public health, occupational health and environmental health in a variety of settings in Canada and lower and middle income countries. After a Masters in Health Research Methods and a residency at McMaster, he qualified as a specialist in Occupational Medicine (1990) and Community Medicine (1992). A Tri-Council Eco-Research fellowship in environmental epidemiology led to research on environmental contaminants, ecosystems, human health and public health responses.

The role of Interim Director of Research at the Institute for Work & Health fostered research on burden of disease, health services, and evaluation of complex interventions for health. With support from the Rockefeller Foundation, CIDA, IDRC and the Bill and Melinda Gates Foundation, he has co-led research on pesticides (surveillance and health impacts), urban agriculture and nutrition in South America and East Africa. He was founding Director of the Collaborative PhD Program in Global Health at the University of Toronto and Co-Chair of the Canadian Coalition for Global Health Research's Capacity Development Program. He currently teaches and mentors a wide range of young researchers using mixed methods. He contributes research evidence on higher education, research systems development and public health globally.



Dr. Arnaldo Lopes Colombo, MD PhD; Federal University of São Paulo-UNIFESP (Brazil)

Arnaldo Lopes Colombo, MD PhD, is Professor of Medicine, Division of Infectious Diseases of the Federal University of São Paulo-UNIFESP, São Paulo, and Head of the Special Mycology Laboratory at the same University (1994-present). The Special Mycology Laboratory is a national reference laboratory for *Candida* identification, typing and evaluation of antifungal resistance. He is also the coordinator of the Clinical Mycology Branch of the Brazilian Society of Infectious Diseases and has organized several guidelines for the clinical management of invasive fungal infections in Latin America. Of note, he was the Vice-Chancellor of Graduate Students and Research of the Federal University of São Paulo during the period between February-2009 and February-2012. Dr Colombo received his medical degree from the Federal University of São Paulo in 1983, and continued his residency training on Internal Medicine and Infectious Diseases there subsequently. After his residency training and master degree on Infectious Diseases he completed his fellowship training in medical mycology at the University of Texas Health Science Center at San Antonio, Texas-USA. He received his PhD degree from the UNIFESP on 1994. Dr Colombo has authored and co-authored a total 110 publications in peer-reviewed journals (H-index of 27), including original and review articles published in *The N Engl J Med*, *Clin Infect Dis* and *Clin Microbiol Rev*. He has organized several multicenter surveillance studies to characterize the epidemiology of emergent fungal infections in Brazil, and has actively participated in several worldwide surveillance programs to evaluate azole antifungal resistance to *Candida* spp. He serves as a reviewer and member of the editorial board of many medical journals, as consulting for several leading research institutions in Brazil as well as pharmaceutical companies.



Dr. Eduardo G. Arathoon (Guatemala)

Graduado de Médico y Cirujano, Facultad de Ciencias Médicas, Universidad de San Carlos de Guatemala. Cuenta con estudios de postgrado en la especialidad de Medicina Interna en el Hospital General San Juan de Dios, Guatemala y una segunda residencia en Medicina Interna por Wayne State University, School of Medicine, Detroit, Michigan (USA). Sub Especialidad: Post Doctorado en Enfermedades Infecciosas, con énfasis en Micología Clínica por Stanford School of Medicine, Stanford University, California (USA). Es Director Médico de la Clínica Familiar Luis Ángel García, Asociación de Salud Integral, Hospital General San Juan de Dios.

Áreas de interés: Investigación y estudio de las Micosis Endémicas: Coccidioidomicosis, Histoplasmosis y Criptococcosis.



Dra. Jeannete Zurita; (Ecuador)

Médica graduada, Universidad Central del Ecuador. Maestría en Microbiología Clínica en London School of Hygiene and Tropical Medicine Inglaterra. Fellowship en el Departamento de Microbiología de la Clínica de la Concepción, Fundación Jiménez Díaz Madrid España. Especialista en Microbiología Clínica. Jefe del Servicio de Microbiología y Tuberculosis del Hospital Vozandes. Profesora Investigadora de la Facultad de Medicina Pontificia Universidad Católica del Ecuador. Directora de la Unidad de Investigaciones en Biomedicina de Zurita & Zurita Laboratorios.

Su principal tema de investigación es Resistencia Bacteriana, Resistencia en hongos Infecciones bacterianas y micóticas emergentes y diagnóstico por laboratorio entre otros. Ha dirigido varios proyectos de investigación. Tiene 55 publicaciones con 5969 lecturas y 747 citaciones. Ha obtenido varios premios entre ellos el de "Mujeres influyentes en el Ecuador".



Dr. Guillermo García Effron (Argentina)

Bioquímico (1999-Universidad Nacional del Litoral-Argentina). Microbiólogo Hospital San Martín (2000-2002-Argentina). Doctorando en el Instituto Carlos III de Madrid (2002-2006). Doctor en Microbiología (2006-Univ. Complutense de Madrid-España). Investigador Postdoctoral (2006-Hospital Universitario 12 de Octubre - España). Postdoctoral Research Associate (2006-2010- Lab. del Dr. David Perlin - University of Medicine and Dentistry of New Jersey - EEUU). Actualmente es Director del Laboratorio de Micología y Diagnóstico Molecular (CONICET - Argentina). Profesor a cargo de la cátedra de Parasitología y Micología (Fac. Bioquímica - Univ. Nac. Litoral). Miembro del Comité de evaluación de la Sensibilidad a los antifúngicos del Clinical and Laboratory Standards Institute (CLSI). Miembro de la Comisión de Micología de la Asociación Argentina de Microbiología. Autor de más de 70 trabajos publicados en revistas científicas, capítulos de libro y titular de 3 patentes de invención.



Dra. Lizzie Carolina Aquino E. (Paraguay)

Doctora en Bioquímica. Egresada de la Universidad Nacional de Asunción. Especialista en Salud Pública y Administración Hospitalaria. Actualmente Directora General del Laboratorio Central de Salud Pública; anteriormente Jefa del Laboratorio del Hospital General Pediátrico, Bioquímica del departamento de inmunología del Hospital de Clínicas Universidad Nacional de Asunción. Postgrado en citogenética (CENAGEN MAIBRAM) enfermedades metabólicas (Chamoles Argentina). Mención de Honor Año 2014 otorgada por el Congreso Nacional por el trabajo de investigación: Innovación

diagnóstica aplicada a casos de infecciones respiratorias agudas graves en niños menores de 5 años.



Agustina Forastiero (Argentina)

Bioquímica encargada del Sector Micología Clínica del Laboratorio de Microbiología del Hospital Británico de Buenos Aires.
Magister en Biología molecular médica.
Consultora externa de la OPS.



Marina Macedo-Viñas (Uruguay)

Medical doctor. Facultad de Medicina - Universidad de la República. Uruguay. July 1999.

Specialist in Microbiology. Escuela de Graduados, Facultad de Medicina - Universidad de la República. Uruguay. April 2005. Master of Advanced Studies in Clinical Medicine: Specialization Infectious Diseases and Infection Control & Prevention of Infection. Faculté de Médecine – Université de Genève. Switzerland. January 2012. Doctor of Medicine (MD). Faculté de Médecine – Université de Genève. Switzerland. January 2012.

At present, she holds the positions of Medical microbiologist. CASMU-IAMPP. Montevideo, Uruguay; ASSE. Pando-Canelones, Uruguay and is Member of the National System of Investigators.

Her tracks of interest and areas of research include Epidemiology of prevalent infections in Uruguay, antimicrobial resistance and infection control and prevention.

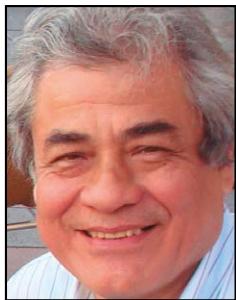


Flavio de Queiroz-Telles, MD, PhD

Infectious Diseases Specialist and Associate Professor
Department of Public Health, Hospital das Clínicas
Federal University of Paraná, Brazil

Dr. Flavio de Queiroz Telles was Head of the Infectious Diseases Unit and Associate Professor at the Hospital das Clínicas, Federal University of Paraná, in Curitiba, Brazil. Dr. Telles is also Medical Consultant in the Mycology Laboratory in the same Institution. Dr. Telles received his medical degree and completed his residency training in Internal Medicine at the Evangelic Faculty of Medicine in Curitiba. Dr. Telles then completed a degree in Tropical Medicine at the Federal University of Goiania, Goias, Brazil, and a Doctoral degree in Infectious Diseases at the University of São Paulo.

He was Head of the Public Health Department of the Federal University of Paraná and Clinical Director and the Clinical Director of the Hospital das Clínicas, at the same Institution. Dr. Telles has authored or co-authored around several original publications in the field of Medical Mycology and Infectious Diseases, including peer reviewers' journals and books. He was the Vice President of the International Society for Human and Animal Mycology (ISHAM) between 2008 and 2010 and also serves as a reviewer or member of the editorial board of numerous medical and microbiological scientific journals. Over the last two decades, Dr. Telles has been involved as Principal Investigator in over 20 multiple site international clinical trials assessing systemic antifungal agents.



Dr. Eduardo Ticona (Perú)

Doctorado en Medicina, Facultad de Medicina, Universidad Nacional Mayor de San Marcos, Máster en Ciencias Tropicales Biomédicas, Instituto de Medicina Tropical, Príncipe Leopoldo Amberg Bélgica, Curso: Instituto de Medicina Tropical, Johns Hopkins University Baltimore USA, Especialista en Enfermedades Infecciosas y Tropicales, Universidad Nacional Mayor de San Marcos, Especialista en Medicina Tropical, Instituto de Medicina Tropical, Universidad de São Paulo, Médico Cirujano Universidad Nacional Mayor de San Marcos

Profesor Principal de la Facultad de Medicina Universidad Nacional Mayor de San Marcos. Jefe fundador del Servicio de Enfermedades Infecciosas y Tropicales del Hospital Nacional Dos de Mayo. Miembro Fundador de la Sociedad de Enfermedades Infecciosas y Tropicales. Presidente del Comité de la Especialidad de Medicina de Enfermedades Infecciosas y Tropicales de la Universidad Nacional Mayor De San Marcos. Miembro de Número de la Academia Nacional de Medicina. Miembro de la Fundación Instituto Hipólito Unanue. Investigador Regina: Categoría Monge I (CONCYTEC).

Investigador Principal en 30 Ensayos Clínicos multicentricos internacionales, temas: Tuberculosis, SIDA, Infecciones oportunistas. 90 Publicaciones en revistas nacionales e Internacionales: Tuberculosis, SIDA, Infecciones oportunistas, Córrea. Ex Director General del Hospital Nacional Dos de Mayo. Ex Consultor Temporal. Organización Panamericana de la Salud, en temas: SIDA, Tuberculosis y Córrea. Past presidente de la Sociedad Peruana de Enfermedades Infecciosas y Tropicales. Past presidente del Comité de Enfermedades Transmisibles del Consejo Nacional de Salud. Ex Vicepresidente para América Latina de la Unión Internacional contra la Tuberculosis y Enfermedades Pulmonares.



Ana Belén Araúz R., MD, MSc (Panamá)

Especialista en Enfermedades Infecciosas que labora en el Hospital Santo Tomás de Panamá. Coordinadora del Comité de Epidemiología de Clínica Hospital San Fernando. Fellow de Investigación en VIH en el Brigham and Women's Hospital, Boston. USA. Maestría en Epidemiología del London School of Hygiene and Tropical Medicine. Profesora de Medicina Interna de la Universidad de Panamá. Curso Gorgas de Medicina Tropical de la Universidad Cayetano Heredia y UAB. Presidenta de la Sociedad de Enfermedades Infecciosas de Panamá. Fellow del Infectious Diseases Society of America. Interés en investigación en VIH, Medicina Tropical e infecciones micóticas.



Dr. Giovanni Ravasi (Italy)

Pan American Health Organization (PAHO), Washington, DC, USA
Giovanni Ravasi is a Medical Doctor, specialized in Infectious Diseases from the Università degli Studi of Pavia, Italy, and holds a Master Degree in Public Health from the London School of Hygiene in Tropical Medicine, London, UK. Since 2008 works as Regional Adviser on HIV and sexually transmitted infections (STIs) for the Pan American Health Organization (PAHO), regional office of the World Health Organization (WHO), currently based at the Regional Headquarter in Washington DC, USA. His main areas of work are HIV drug resistance surveillance, prevention and control, technical cooperation for HIV care and treatment public health policy development, implementation and monitoring and evaluation.



Dr. Eduardo Álvarez Duarte (Chile)

Doctor en Cs. Biomédicas por la Universitat Rovira i Virgili (URV); Master en Enología - URV, Magister en Microbiología (U. Austral de Chile). European Research Fellow en la U. Católica de Lovaina (UCL). Académico e investigador del Programa de Microbiología y Micología, U. de Chile. Embajador para Chile de la Global Action Fund for Fungal Infections (GAFFI). Miembro fundador y primer presidente de la Asociación Chilena de Micología (AMICH). Es presidente de la Asociación Latinoamericana de Micología. Ha sido director y profesor en diferentes cursos de micología médica. Ha sido investigador principal y/o colaborador en diversos proyectos. Autor de varias publicaciones en revistas internacionales y libros del área. Ha descrito 9 especies nuevas de hongos para la ciencia. Su interés actual es la epidemiología de las micosis, taxonomía clásica y molecular, evaluación de antifúngicos, biodiversidad de los hongos de Chile y aplicaciones biotecnológicas de los hongos.



Nathan Ford (WHO, Geneva)

Dr Nathan Ford is a scientific officer with the Dept of HIV/AIDS and Global Hepatitis Programme of the World Health Organization in Geneva, and head of WHO's Guidelines Review Committee. Prior to joining WHO in 2012 he worked with Médecins Sans Frontières (MSF) for 14 years supporting HIV programmes in a number of countries in southern Africa and South-East Asia. He holds a degree in Microbiology and Virology, a Masters in Public Health and Epidemiology, and a PhD in Clinical Epidemiology, and is a Fellow of the Royal College of Physicians of Edinburgh. He has published over 400 peer-reviewed publications and is an editorial adviser for the WHO Bulletin and a member of the editorial boards of JAIDS, JIAS, Tropical Medicine and International Health, and Conflict and Health.



Luis Ostrosky-Zeichner, M.D., FACP, FIDSA, FSHEA, FECMM, CMQ (Mexico)

Dr. Ostrosky-Zeichner is a professor of medicine and epidemiology, the Vice-Chair of Medicine for Healthcare Quality, and the director of the Laboratory of Mycology Research, at the Division of Infectious Diseases of the McGovern Medical School (a part of UTHealth). He also serves medical director for epidemiology and antimicrobial stewardship for Memorial Hermann Texas Medical Center, UT Physicians, and Cornerstone TMC. He is a fellow of the American College of Physicians, the Infectious Diseases Society of America, the Society of Healthcare Epidemiology of America, and the Academy of the European Confederation of Medical Mycology. He is a Senior Editor for Journal of Antimicrobial Chemotherapy, as well as an editorial board member of Antimicrobial Agents and Chemotherapy. He is a board member of the Mycoses Study Group and Educational Consortium and the International Immunocompromised Host Society. He is also a past chair of the Infectious Diseases Society of America Standards and Practice Guidelines Committee and has been a consultant to the US FDA and CDC. He has advanced training and experience in medical mycology, healthcare epidemiology, antimicrobial stewardship, general and transplant infectious diseases, and healthcare quality and has published over 140 peer-reviewed articles on those topics.

Dr. Ostrosky-Zeichner obtained his medical degree from Universidad Nacional Autónoma de Mexico. He completed his internal medicine residency at Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubiran, and his infectious diseases fellowship at the University of Texas Medical School at Houston and MD Anderson Cancer Center combined fellowship program.



Ricardo Rabagliati

Medicina interna e Infectología. Profesor asociado
Departamento Enfermedades infecciosas del adulto
Facultad de medicina
Pontificia Universidad Católica de Chile
Director
Hospital Clínico
Red de Salud UC-CHRISTUS
Santiago. Chile



Dr. Fernando Riera (Argentina)

Médico Infectólogo. Jefe del Servicio de Infectología del Sanatorio Allende.
Infectólogo del Hospital Córdoba. Docente de la Universidad Nacional de
Córdoba. Presidente de la Comisión de Infecciones Micóticas de la Asociación
Panamericana de Infectología.



Dr. Jose E. Vidal (Brazil)

Médico Cirujano por la Universidad Nacional Mayor de San Marcos, realizó la Residencia Médica en Infectología en el "Instituto de Infectología Emílio Ribas (IIER)" en San Pablo, Brasil. Doctor en Ciencias. Infectólogo del Servicio de Neurología del IIER y del Departamento de Enfermedades Infecciosas del Hospital das Clínicas de la Universidad de São Paulo. Consultor del Ministerio de la Salud de Brasil y de la Organización Mundial de la Salud. Principales áreas de investigación: Infecciones neurológicas en pacientes infectados por el VIH; infecciones neurológicas en inmunocompetentes; tratamiento antirretroviral; y pruebas de resistencia antirretroviral.



Dr. Jorge Alberto Cortés Luna (Colombia)

Médico, especialista en Medicina Interna e Infectología de la Universidad Nacional de Colombia. Profesor titular, Director del Departamento de Medicina Interna, Facultad de Medicina, Universidad Nacional de Colombia. Subdirector de Clínicas Médicas, Hospital Universitario Nacional de Colombia. Investigador Senior en el área de micología, infecciones en pacientes inmunocomprometidos y epidemiología de las infecciones en Colombia, asociado al grupo de investigación en enfermedades infecciosas de la Universidad Nacional de Colombia.

Mg. Gladys Estigarribia Sanabria (Paraguay)

Directora del Instituto Regional de Investigación en Salud de la Universidad Nacional de Caaguazú. Jefa del Laboratorio de Investigación de la Universidad Nacional de Caaguazú. Investigadora categorizada por el CONACYT-PARAGUAY en las líneas de investigación Enfermedades Infecciosas-Tuberculosis-VIH. Docente de Microbiología y Parasitología en la Universidad Nacional de Caaguazú. Docente de Metodología de la Investigación en la Universidad Nacional de Asunción.

De formación Bioquímica Clínica- Magister en Biotecnología de Alimentos y Especialista en Bacteriología Clínica y Metodología de la Investigación.



Dra. Gloria Celeste Aguilar Barreto (Paraguay)

Médico-Pediatra. Residencia de infectología pediátrica en el Instituto de Medicina Tropical de Asunción. Magíster en epidemiología clínica (egresada con Distinción unánime). Master en salud pública con área de concentración en bioestadística y sistema de información. PhD en enfermedades infecciosas. Actualmente Jefe de Información estratégica y vigilancia epidemiológica del Programa Nacional de Control de VIH/SIDA/ITS, antigüedad de 12 años. Punto focal del Informe GAM para UNAIDS/OMS-OPS. Embajador de GAFFI en el Paraguay. Miembro del Comité Ejecutivo de la IUSTI (The International Union Against Sexually Transmitted Infections, organización oficial no gubernamental en estado consultivo con la Organización Mundial de la Salud con sede en Inglaterra). Vicepresidente de la Sociedad Paraguaya de Infecciones de Transmisión Sexual. Miembro titular de la Sociedad Paraguaya de Infectología. Investigador Nivel I, del CONACYT. Área de Investigación: enfermedades infecciosas con énfasis en VIH y otras infecciones de transmisión sexual.



Dra. Dora E. Corzo León (UK)

Médico, originaria de México, con especialidad en medicina interna e infectología por el Instituto Nacional de Ciencias Médicas y Nutrición. Estudió una maestría en ciencias médicas en la Universidad Nacional Autónoma de México con sede en el Instituto Nacional de Enfermedades Respiratorias y el Centro de Investigación de Enfermedades Infecciosas. Maestría de investigación en micología médica e inmunología fúngica y actualmente candidata a doctor en micología médica molecular, ambos por la Universidad de Aberdeen en Reino Unido. Desde hace 9 años, el enfoque de mi investigación está en describir la epidemiología de las infecciones fúngicas en México y en entender las interacciones entre los hongos y el huésped que permitan desarrollar nuevos abordajes terapéuticos contra estas infecciones.



Dr. Nienke van de Sande-Bruinsma (PAHO)

Advisor Antimicrobial Resistance (AMR) Response at the Pan American Health Organization (PAHO) at Washington DC, where she is supporting Member States with the development and implementation of their National AMR Action Plans and national AMR surveillance. From 2012 till 2017, Dr Bruinsma was AMR technical officer for the WHO Regional Office for Europe in Copenhagen, Denmark working with Central Asian and Eastern European countries on setting up national AMR surveillance, and antimicrobial and diagnostic stewardship. Dr Bruinsma has a PhD on Monitoring of Antibiotic Resistance from the University Maastricht in the Netherlands, where she worked until 2012 at the National Institute of Public Health and the Environment (RIVM) in the management team of the European Antimicrobial Resistance Surveillance System (EARSS), and developed the National Surveillance System of Antimicrobial Resistance for the Netherlands.

Cristina Canteros (Argentina)

Flor Urcia Ausejo (Peru)

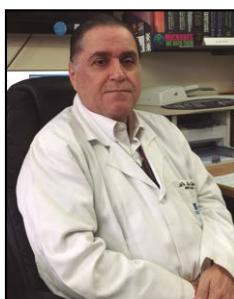
Licenciada en Biología en la Universidad Ricardo Palma y estudios de maestría en microbiología en la Universidad Nacional Mayor de San Marcos. Experiencia profesional de 4 años en el Laboratorio de Referencia Nacional de VIH y 18 años en el Laboratorio de Referencia Nacional de Micología en el Instituto Nacional de Salud.

Cuenta con trabajos de investigación publicados en revistas indexadas, participación en congresos como ponente, participación en la elaboración de manuales de procedimientos y material didáctico en temas de micología.



Maribel Esperanza Dolande Franco (Venezuela)

Licenciada en Bioanálisis. Universidad de Carabobo. Núcleo Aragua. 1989. Con especialidad en Micología Médica. Magíster Scientiarum en Micología. Facultad de Medicina. Universidad Nacional Experimental "Francisco de Miranda". Coro - Edo. Falcón. 2004. (Tesis con mención honorífica). Diplomado en Sistemas de Gestión de la Calidad. Fondonorma. Caracas, 22 de junio de 2017. Jefe de División(E) de Micología. Instituto Nacional de Higiene "Rafael Rangel". Coordinadora de la Red de Candidemia y Vigilancia de la Resistencia a los antifúngicos a partir del 2008. Coordinadora y docente. Asignaturas: Micología Médica, Histopatología de las micosis y Susceptibilidad a los antifúngicos. Postgrado de Micología Médica. INHRR. Caracas, desde 2006. Docente invitada con diversos tópicos de las micosis en los Postgrados de Micología, Infectología, Medicina Interna y Dermatología de Universidades nacionales desde el año 2000. Implementación de la detección de galactomanano para Aspergillus a nivel nacional coordinando 6 centros de salud. Susceptibilidad de Cryptococcus spp. a los antifúngicos. Micosis superficiales, Micosis sistémicas y oportunistas en pacientes inmunocomprometidos VIH/SIDA. Revisor en: Revista Iberoamericana de Micología y Revista de la Sociedad Venezolana de Microbiología. Participación como conferencista en diversos eventos científicos nacionales e internacionales, así como autora y coautora en trabajos libres presentados en dichos eventos. Publicaciones en revistas nacionales e internacionales indexadas y arbitradas, capítulo o tópico específico en libros y modalidad on line.



Dr. Luis Cuellar Ponce de León (Peru)

Medical Doctor, Universidad Nacional "Federico Villarreal". Lima, Perú. Specialist of Infectious Diseases and Tropical Medicine, Universidad Peruana "Cayetano Heredia". Lima, Perú. Master of Clinical Epidemiology, Universidad Peruana "Cayetano Heredia", Lima, Perú. Medical Staff, Infectious Diseases Unit, Instituto Nacional de Enfermedades Neoplásicas, Lima, Perú. Speaker in international and national congress, courses and symposiums. Investigator (principal investigator or co-investigator) in international and national researches. Publications of scientific articles and chapters on infectious disease issues in national and international journals and books. Professor of Medicine. Universidad Nacional "Federico Villarreal". Lima, Perú. Past President, Sociedad Peruana de Enfermedades Infecciosas y Tropicales (SPEIT). Lima, Perú. Active Member, Asociación Panamericana de Infectología (API).



Dr. Miguel Trelles de Belaunde (Peru)

Graduado de Médico Cirujano de la Universidad Peruana Cayetano Heredia en 2006, realizó la especialización en Radiología Diagnóstica en "University of Texas Medical Branch" y la subespecialización en Neuroradiología en John Hopkins Hospital. Es autor del libro "The physics of clinical MR taught through images", capítulos de libros y múltiples artículos en revistas internacionales. Trabaja desde el 2015 como coordinador médico del servicio de imágenes de la Clínica Delgado en Lima, Perú.



Alex Risman, Chicago (USA)

Alex Risman is the Founder and CTO of Realize, a medical imaging AI company. At Realize, he has developed algorithms to detect 15 diseases in chest X-rays, including tuberculosis. He has also developed an extensible deep learning framework for the analysis of 3D medical images that has been successfully applied to the detection of lung nodules and pulmonary embolism in CT scans, for which he has been awarded multiple US patents. Alex holds a master's in data science from UC Berkeley and a bachelor's in economics and applied math from Northwestern University.

Matilde Román (Nicaragua)

Jose Pereira (Paraguay)



Carlos Arturo Alvarez (Colombia)



Dr. Alberto Montoya Pérez (Nicaragua)

Master en Ciencias en microbiología médica. Trabaja desde hace 27 años para Centro Nacional de Diagnóstico y Referencia del Ministerio de Salud de Nicaragua y actualmente se desempeña como Director de los Laboratorios de Parasitología y Zoonosis.

Cuenta con amplia experiencia en el diagnóstico por laboratorio de enfermedades virológicas, microbiológicas y parasitológicas, que se traduce en más de 30 publicaciones en revistas extranjeras y nacionales de sus trabajos de investigación abordando diversos temas de estas enfermedades.

Ha recibido tres premios nacionales del Consejo de Ciencias y Tecnologías de Nicaragua (CONICYT), por innovaciones que han tenido impacto en el desarrollo humano, como es el desarrollar kits para diagnóstico serológico de las enfermedades de leptospirosis y enfermedad de Chagas en Nicaragua.



Lic. Mayda Rosa Perurena Lancha (Cuba)

Graduada de Licenciatura en Microbiología en la Facultad de Biología de la Universidad de La Habana en 1990. Posee el grado científico de Master en Bacteriología-Micología, es investigadora y profesora auxiliar. Es la Responsable del Laboratorio Nacional de Referencia de Micología del Instituto de Medicina Tropical "Pedro Kourí". Junto con su colectivo trabaja en las principales líneas de investigación del laboratorio, como: susceptibilidad a los antifúngicos de hongos filamentosos, estudio de factores de virulencia y patrones de susceptibilidad antifúngica en cepas de *Candida* aisladas de candidiasis sistémica, estudio de la carga de aspergilosis pulmonar crónica, diagnóstico de las infecciones oportunistas en el curso del SIDA, obtención de reactivos biológicos empleados en pruebas serodiagnósticas de histoplasmosis, estudio candidiasis vulvovaginal recurrente y detección de resistencia en cepas de *Candida*. También realizamos el diagnóstico de todas las infecciones fúngicas, la referencia y docencia.



Luis Gabriel Caminero Rodriguez (República Dominicana)

Médico Infectólogo
Coordinador Medico del Programa Nacional de ITS/VIH/Hepatitis
Ministerio de Salud Pública
República Dominicana



Dr. José Angel Sánchez Nuñez (Honduras)

Doctor en Medicina y Cirugía. Médico especialista en Medicina Interna y Sub Especialista en Hemato-Oncología. Actualmente es Profesor Titular III de la Facultad de Ciencias Médicas (FCM), Universidad Nacional Autónoma de Honduras (UNAH). Médico Consultor del Hospital Militar (HM) de Honduras y del Hospital DIME de Tegucigalpa. Docente en educación en cáncer en general, enseñanza de pregrado en la FCM y alterna actividades asistenciales de pacientes de consulta externa e internos del HM y clínica privada. Médico Voluntario de la Sociedad Americana de Oncología (ASCO) y de los Voluntarios Transoceánicos de la Salud (HVO). Responsable de la organización del programa de Residencia de Oncología Médica en la UNAH (en progreso) y de las unidades de Oncología Patológica en los Hospitales estatales para establecer el diagnóstico temprano del cáncer y el manejo de pacientes que requieran cuidados paliativos.

Dr. Pablo Campos (Peru)

Médico Infectólogo graduado en la Universidad Peruana Cayetano Heredia, y Master in Public Health de la Universidad de Washington en Seattle-USA.
Actualmente es parte del staff de la Clínica Delgado y Médico Investigador en Investigaciones Médicas en Salud.



Dra. Beatriz Bustamante (Peru)

Médico infectólogo, con grado de Maestría en medicina y especialista en micología clínica. Realizó sus estudios universitarios en la Universidad Peruana Cayetano Heredia en Lima, Perú y su entrenamiento en el área de micología en el Instituto de Medicina Tropical "Prince Leopold" de Amberes en Bélgica.

Actualmente es médico asistente del Departamento de Enfermedades Infecciosas, Tropicales y Dermatológicas del Hospital Cayetano Heredia y Coordinadora del Laboratorio de Micología Clínica del Instituto de Medicina Tropical Alexander von Humboldt de la Universidad Peruana Cayetano Heredia. Su actividad profesional está enfocada principalmente en la evaluación clínica y micológica de pacientes con sospecha de infecciones fúngicas.

Marlen Arce Villalobos (Costa Rica)

Hibeb Silvestre Tuch (Guatemala)

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