

Oral Programme

Tuesday, 16th May 2017

17:30-20:00	Registration Terrace at Guest House Adriatico
18:00-20:00	Welcome Reception Terrace at Guest House Adriatico
Wednesday, 17th May 2017	
08:00-09:00	Registration ICTP Foyer
08:55-09:00	Welcome and Opening Remarks Budinich Lecture Hall
09:00-10:00	Opening Plenary Session Room: Budinich Lecture Hall Session Chair:
09:00-09:30	[PLN01] Climate information for Public Health Action: Where are we coming from? - Where are we heading? M. Thomson, <i>Columbia University, USA</i>
09:30-10:00	[PLN02] Juerg's Plenary J. Utzinger, <i>Swiss Tropical and Public Health Institute, Switzerland</i>
10:00-10:30	Refreshment Break ICTP Foyer
10:30-12:00	Session 1: Neglected Tropical Diseases Room: Budinich Lecture Hall Session Chair: Maxine Whittaker
10:30-11:00	[KEY01] D. Hollingsworth, <i>University of Warwick, UK</i>
11:00-11:30	[INV01] L. Ching NG, <i>National Environment Agency, Singapore</i>
11:30-11:45	[ST01] Development impacts on water-related transmission of <i>Opisthorchis viverrini</i> in northeast Thailand T.M. Leon ^{*1} , R.C. Spear ¹ , K. Kuntiyawichai ² , V. Plermakamon ² , B. Sripana ² , ¹ <i>University of California, USA</i> , ² <i>Khon Kaen University, Thailand</i>
11:45-12:00	[ST02] Water, dams and schistosomiasis: Novel ecological solutions for the control of environmentally transmitted diseases G.A. De Leo ^{*1} , S.H. Sokolow ^{1,2} , A. Lund ¹ , C.M. Hoover ² , C. Wood ³ , K. Lafferty ⁴ , P.A. Collender ² , J. Remais ² , D.L. Lopez-Carr ² , I.J. Jones ¹ , ¹ <i>Stanford University, USA</i> , ² <i>University of California, USA</i> , ³ <i>University of Washington, USA</i> , ⁴ <i>USGS, USA</i>
12:00-14:00	Lunch Cafeteria Poster Session 1 ICTP Foyer
14:00-15:30	Session 2: Emerging Infectious Diseases, Wildlife, Biodiversity and Environmental Change Room: Budinich Lecture Hall Session Chair: Andrew Dobson
14:00-14:30	[KEY02] One health collaborations addressing interactions among environmental change, reduced biodiversity, and disease emergence in wildlife A. Alonso Aguirre ^{*1} , V. Beasley ¹ , P. Echaubard ¹ , B.A. Wilcox ¹ , ¹ <i>George Mason University, USA</i> , ² <i>The Pennsylvania State</i>

	<i>University, USA, ³Mahidol University, Thailand</i>
14:30-15:00	[INV02] K. Jones, <i>University College London, UK</i>
15:00-15:15	[ST03] Global correlates of emerging zoonoses: Anthropogenic, environmental, and biodiversity risk factors T. Allen ¹ , K.A. Murray* ² , C. Zambrana-Torrel ¹ , S. Morse ³ , C. Rondinini ⁴ , M. di Marco ⁵ , N. Breit ¹ , K. Olival ¹ , P. Daszak ¹ , ¹ EcoHealth Alliance, USA, ² Imperial College London, UK, ³ Columbia University, USA, ⁴ Sapienza University, Italy, ⁵ University of Queensland, Australia
15:15-15:30	[ST04] Deforestation, rodent community and leptospirosis in Cambodia M. Pruvot* ¹ , J.L. Ramassamy ² , S. Chea ¹ , V. Hul ² , S.H. Olson ³ , A. Fine ³ , P. Dussart ² , P. Horwwood ² , ¹ Wildlife Conservation Society, Cambodia, ² Institut Pasteur du Cambodge, Cambodia, ³ Wildlife Conservation Society, USA
15:30-16:00	Refreshment break ICTP Foyer
16:00-17:30	Session 3: Water-Borne and Food-Borne Diseases Room: Budinich Lecture Hall Session Chair: Jonathan Patz
16:00-16:30	[KEY03] Waterborne and food borne diseases: A need for further efforts on reducing environmental health exposure risks G. Cisse, <i>Swiss TPH, Switzerland</i>
16:30-17:00	[INV03] From modeling key drivers of cholera transmission dynamics to new perspectives on parasitology A. Rinaldo ^{1,2} , ¹ Ecole Polytechnique Fédérale de Lausanne, Switzerland, ² Università di Padova, Italy
17:00-17:15	[ST05] A modelling and scenario approach to understand the impact of global change on waterborne pathogen concentrations in surface water and consequent health risk N. Hofstra, M.S. Iqbal, M.M.M. Islam*, L.C. Vermeulen, <i>Wageningen University, The Netherlands</i>
17:15-17:30	[ST06] El Niño and the shifting geography of cholera in Africa S.M. Moore* ¹ , A.S. Azman ¹ , B.F. Zaitchik ² , H. McKay ¹ , J. Lessler ¹ , ¹ Johns Hopkins Bloomberg School of Public Health, USA, ² Johns Hopkins University, USA
Thursday, 18th May 2017	
09:00-10:30	Session 4: Impacts of Mobility, Travel, Trade and Globalization on Infectious Diseases Room: Budinich Lecture Hall Session Chair: David Taylor
09:00-09:30	[KEY04] Accounting for human drivers of seasonal epidemics C. Buckee, <i>Harvard University, USA</i>
09:30-10:00	[INV04] William Pan
10:00-10:15	[ST07] Opening pandora's box at the roof of the world: Landscape, climate, and infectious disease B.C. Canavan ^{1,2} , ¹ Oregon State University, USA, ² Independent Scholar, USA
10:15-10:30	[ST08] Assessing the risk of mosquito transmitted pathogens using meteorologically driven models

	C.W. Morin* ¹ , A.J. Monaghan ² , M. Butterworth ³ , ¹ <i>University of Washington, USA</i> , ² <i>National Center for Atmospheric Research, USA</i> , ³ <i>Willamette University, USA</i>
10:30-11:00	Refreshment break ICTP Foyer
11:00-12:00	Session 5: Land Use Change, Including Livestock, Pastoral and Agricultural Changes Room: Budinich Lecture Hall Session Chair:
11:00-11:30	[KEY05] Climatic and landuse change as drivers of infectious disease resurgence J. Patz*, D. Vimont, <i>University of Wisconsin-Madison, USA</i>
11:30-12:00	[INV05] Population dynamics and evolutionary response of an emerging avian pathogen A. Dobson, <i>Princeton University, USA</i>
12:00-14:00	Lunch Cafeteria Poster Session 2 ICTP Foyer
14:00-15:30	Session 6: Building Resilience to Environmental Change: Impacts on Infectious Diseases Room: Budinich Lecture Hall Session Chair:
14:00-14:30	[KEY06] Sustainable food systems for resilient and healthy societies F. Egal, <i>Food Security and Nutrition Expert, Italy</i>
14:30-15:00	[INV06] Decision tool for climate disasters and infectious disease at subnational level in indiaensuring: A paradigm shift in health planning from prevalence to vulnerability N.K. Dogra* ¹ , P.K. Taneja ² , S. Bhadwal ³ , R. Akhtar ⁴ , ¹ <i>Green Fulbrighters Forum, India</i> , ² <i>Indian Institute of Public Administration (IIPA), India</i> , ³ <i>The Energy and Resources Institute (TERI), India</i> , ⁴ <i>International Institute of Health Management Research (IIHMR), India</i>
15:00-15:15	[ST09] The interaction of HIV, nutrition, food insecurity, and environmental change in Uganda: Living with the consequences M. Hennessy* ¹ , A. Kambugu ² , C. Kityo ⁴ , N. Pen-Mogi ³ , N. Tumwesigye ⁵ , ¹ <i>Trinity College Dublin, Ireland</i> , ² <i>Infectious Diseases Institute, Uganda</i> , ³ <i>Gulu University, Uganda</i> , ⁴ <i>Joint Clinical Research Centre, Uganda</i> , ⁵ <i>Makerere University, Uganda</i>
15:15-15:30	[ST10] Integrating public health into river basin management G.W. Geerling ^{1,3} , E. Boelee* ² , ¹ <i>Deltares, The Netherlands</i> , ² <i>Water Health, The Netherlands</i> , ³ <i>Radboud University Nijmegen, The Netherlands</i>
15:30-16:00	Refreshment break ICTP Foyer
16:00-17:30	Session 7: Urbanization, Socio-Demographic and Economic Impacts on Health Room: Budinich Lecture Hall Session Chair:
16:00-16:30	[KEY07] In search of a better life? Urbanization low income countries and implications for health N.J. Madise, <i>University of Southampton, UK</i>
16:30-17:00	[INV07] Dirk Lauwaet

17:00-17:15	<p>[ST11] Urbanization modifies the innate and acquired immune system of common blackbirds in Europe J.D. Ibáñez-Álamo^{*1,2}, R.L. Thomson^{3,4}, J.I. Aguirre⁵, M. Versteegh¹, A. Díez-Fernández², J. Figuerola², B. Faivre⁶, B.I. Tieleman¹, ¹University of Groningen, The Netherlands, ²Estación Biológica de Doñana, Spain, ³FitzPatrick Institute of African Ornithology, South Africa, ⁴University of Turku, Finland, ⁵Universidad Complutense de Madrid, Spain, ⁶Université de Bourgogne, France</p>
17:15-17:30	<p>[ST12] Population density, climate variables and poverty synergistically structure spatial risk in urban malaria in India M.S.V. Santos-Vega^{*1}, M.P. Pascual¹, M.J.B. Bouma^{2,3}, V. Kohli⁴, ¹University of Chicago, USA, ²London School of Tropical Hygiene and Tropical Medicine, UK, ³Institute of Climate Sciences, Spain, ⁴Ahmedabad Municipal Corporation, India</p>
19:00-22:30	Conference Dinner (optional) Savoia Excelsior Palace
Friday, 19th May 2017	
08:30-10:00	<p>Session 8: GnosisGIS Room: Budinich Lecture Hall Session Chairs: Laura Rinaldi and Robert Berquist</p>
08:30-09:00	<p>[KEY08] Spatio-temporal epidemiological approaches to quantifying environmental change and its impact on infectious diseases, using the example of echinococcosis in China A.M. Cadavid Restrepo¹, Y.R. Yang^{2,3}, D.P. McManus³, D.J. Gray^{1,3}, T.S. Barnes⁴, G.M. Williams⁴, R.J. Soares Magalhães⁴, N.A.S. Hamm⁵, A.C.A. Clements^{*1}, ¹The Australian National University, Australia, ²Ningxia Medical University, China, ³QIMR Berghofer Medical Research Institute, Australia, ⁴The University of Queensland, Australia, ⁵University of Twente, The Netherlands</p>
09:00-09:30	<p>[INV08] Climate change, schistosomes and snails: Past trends and future prospects A-S. Stensgaard, <i>University of Copenhagen, Denmark</i></p>
09:30-10:00	<p>[INV09] P. Vounatsou, <i>Swiss Tropical and Public Health Institute, Switzerland</i></p>
10:00-10:30	Refreshment break ICTP Foyer
10:30-13:00	<p>Session 9: Vector-Borne Diseases Room: Budinich Lecture Hall Session Chair:</p>
10:30-11:00	<p>[KEY09] It's a bug's life: The impact of future environmental changes on vector borne infectious disease dynamics in people and animals: An overview M. Whittaker, <i>James Cook University, Australia</i></p>
11:00-11:30	<p>[INV10] Evolutionary and ecological insights into the emergence of arthropod-borne viruses M. Marklewitz¹, A. Kopp¹, F. Zirkel^{1,2}, K. Hermanns¹, C. Drosten¹, S. Junglen^{*1}, ¹Universitätsmedizin Berlin, Germany, ²Paul-Ehrlich-Institute, Germany</p>
11:30-12:00	<p>[INV11] Climate-driven modelling of bluetongue disease: Assessing the current and future threat A.E. Jones*, J. Turner, C. Caminade, M. Wardeh, A.E. Heath, A.P. Morse, M. Baylis, <i>University of Liverpool, UK</i></p>
12:00-12:15	<p>[ST13] Climate change will expand the global potential for Chikungunya in the 21st century N.B. Tjaden^{*1}, S.M. Thomas¹, D. Fischer², J.E. Suk³, B. Sudre³, C. Beierkuhnlein¹, J.C. Semenza³, ¹University of Bayreuth,</p>

	<i>Germany, ²Technical University of Munich, Germany, ³European Centre for Disease Prevention and Control (ECDC), Sweden</i>
12:15-12:30	[ST14] Fine-scale variation in microclimate changes the arbovirus transmission potential of <i>Aedes albopictus</i> C.C. Murdock* ¹ , M. Evans ¹ , T. McClanahan ¹ , K. Miazgowicz ¹ , B. Tesla ¹ , ¹ University of Georgia, USA, ² University of Arkansas at Little Rock, USA
12:30-12:45	[ST15] Integrated surveillance and modelling systems for climate-sensitive diseases M.C. Wimberly*, J.K. Davis, G.M. Henebry, M.B. Hildreth, Y. Liu, C.L. Merkord, <i>South Dakota State University, USA</i>
12:45-13:00	[ST16] Did El Niño 2015-2016 fuel the south-American Zika outbreak? C. Caminade* ^{1,2} , J. Turner ¹ , S. Metelmann ^{1,2} , J.C. Hesson ^{1,3} , M. Blagrove ^{1,2} , T. Solomon ^{1,2} , A.P. Morse ^{1,2} , M. Baylis ^{1,2} , ¹ University of Liverpool, UK, ² Health Protection Research Unit - NIHR, UK, ³ Uppsala University, Sweden
13:00-15:00	Lunch Cafeteria
15:00-16:30	Session 10: Integrating Climate and Environmental Information into Health Policy Room: Budinich Lecture Hall Session Chair: Adrian Tompkins
15:00-15:30	[KEY10] Climate change destabilizes many infectious diseases from the arctic to the equator: A call for action R. Sauerborn, <i>Heidelberg University, Germany</i>
15:30-16:00	[INV12] G. Mantilla, <i>Columbia University, USA</i>
16:00-16:15	[ST17] Using climate forecasts to predict the 2016 dengue season in Machala, Ecuador R. Lowe* ^{1,2} , A.M. Stewart-Ibarra ³ , D. Petrova ² , M. García-Díez ⁴ , M.J. Borbor-Cordova ⁵ , R. Mejía ⁶ , M. Regato ⁷ , X. Rodó ^{2,8} , ¹ London School of Hygiene & Tropical Medicine, UK, ² Barcelona Institute for Global Health (ISGLOBAL), Spain, ³ State University of New York Upstate Medical University, USA, ⁴ Predictia Intelligent Data Solutions, Spain, ⁵ Escuela Superior Politecnica del Litoral (ESPOL), Ecuador, ⁶ National Institute of Meteorology and Hydrology (INAMHI), Ecuador, ⁷ National Institute of Public Health Research (INSPI), Ecuador, ⁸ Institució Catalana de Recerca i Estudis Avançats (ICREA), Spain
16:15-16:30	[ST18] Understanding climate link to malaria: Challenges for malaria early warning in South Africa M. Hashizume* ¹ , S. Behera ² , Y. Kim ¹ , C. Imai ³ , T. Doi ² , Y. Morioka ² , T. Ikeda ² , J. Ratnam ² , S. Iwami ⁴ , A. Tompkins ⁵ , ¹ Nagasaki University, Japan, ² Japan Agency for Marine-Earth Science and Technology, Japan, ³ Queensland University of Technology, Australia, ⁴ Kyushu University, Japan, ⁵ International Centre for Theoretical Physics, Italy
16:30-16:35	Closing Remarks Budinich Lecture Hall
16:35	Conference ends