



**SECOND INTERNATIONAL SYMPOSIUM ON TUBERCULOSIS:
Clinical, Molecular and Immunological Aspects**

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red.tb.mexico@gmail.com

December 7,8 and 9th 2015

Hotel Coral Marina, Ensenada, Baja California, México

December 7th		
10:00 -13:00	REMITB Meeting group	
13:00 - 15:00	Lunch / Registration	
15:30 - 17:00	Curso Precongreso -Qiagen- TB latente - Quantiferon	
17:00 - 18:30	Posters	
18:30 - 21:30	Ice breaker (Hotel Coral & Marina)	
December 8th		
8:00 - 9:00	<i>Registration</i>	
9:00 - 9:45	<i>Inauguration</i>	
9:45 - 10:00	<i>Coffee break</i>	
CLINICAL AND EPIDEMIOLOGY		
10:00 - 10:30	"Current situation of tuberculosis México"	Dr. Martha A. García Avilés Director. Mycobacteriosis Program, Secretaria de Salud. México
10:30 - 11:00	"Tuberculosis Epidemiology in the border US-Mexico"	Dr. Luis Alejandro Pulido Espinosa Chief. Mycobacteriosis Program in Ensenada Jurisdiction, Secretaria de Salud, México
11:00 - 11:30	"Diagnostic algorithms for tuberculosis in Latin America"	Dr. Rafael Laniado Laborín Chief. Tuberculosis Clinic. General Hospital, Tijuana, Secretaria de Salud. Mexico
11:30 - 12:00	"Current diagnostic and genotyping tests used by US TB programs"	Kathleen Moser, MD, MPH Director. TB Control Program, San Diego County Health and Human Services Agency. USA
12:00 - 12:20	<i>Questions</i>	
12:20 - 12:40	<i>Coffee break</i>	



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12:40 - 13:10	Tuberculosis: a global disease with a global solution. What are we doing?	Paula C. Hamsho-Diaz, MD, MA.	Latin American Project Coordinator Division of infectious Diseases and Global Medicine. College of Medicine, Department of Medicine, University of Florida
13:10 - 13:40	"Molecular approaches for tuberculosis detection"	Dra. Yuko Nakamura López	Consejo Estatal para la Prevención y Control del SIDA, Oaxaca, México
13:40 - 14:10	"Adherence to tuberculosis treatment"	Richard S. Garfein, PhD, M.P.H	Professor. Division of Public Health Department of Medicine, University of California San Diego, USA
14:10 - 14:30	Questions		
14:30 - 16:00	Lunch / Posters		
IMMUNOLOGY AND VACCINATION			
16:00 - 16:30	"The effect of BCG vaccination on the virulence of <i>M. tuberculosis</i> "	Dr. Rogelio Hernández Pando	Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, México.
16:30 - 17:00	"Immunology of Tuberculosis"	Dr. Alejandro Escobar Gutiérrez	Instituto de Diagnóstico y Referencia Epidemiológicos. México
17:00 - 17:30	"Neutrophils, NETs and <i>Mycobacterium tuberculosis</i> "	Dr. Oscar Rojas-Espinosa	National School of Biological Sciences, Instituto Politécnico Nacional
17:30 - 18:00	Questions		

December 9th

MOLECULAR EVOLUTION			
8:30 - 9:00	"NGS Revolutionizing Microbiology"	Dr. Gary Nunn	Illumina National Service & Support Team, San Diego, USA
9:00 - 9:30	"Tuberculosis in the Genomic Era: Diagnostic, detection, and resistance"	Dr. Alejandro Sanchez-Flores	Jefe de Unidad / Head of Core Facility. Unidad de Secuenciación Masiva y Bioinformática. UNAM
9:30 - 10:00	"Whole genome sequencing-based approaches to the origin and spread of tuberculosis"	Dr. Philip Supply	Biology Institute of Lille, France
10:00 - 10:30	"Next generation sequencing to understand the epidemiology and evolution of the tuberculosis bacillus"	Dr. Iñaki Comas	FISABIO-Public Health, Valencia, Spain
10:30 - 10:50	Questions		



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10:50 - 11:40	Posters / Coffee break		
11:40 - 12:10	"Molecular mechanisms of drug resistance in Tuberculosis"	Dr. Roberto Zenteno Cuevas	Institute of Public Health, Universidad Veracruzana, Mexico.
12:10 - 12:40	" <i>Mycobacterium bovis</i> Whole Genome Sequencing SNP Analysis"	Dra. Suelee Robbe	APHIS-USDA, USA
12:40 - 13:10	" <i>Transcriptomic analysis of Mycobacterium tuberculosis through Next Generation Sequencing: Insight into the active and dormant stage and the influence of lipids in its environment</i> "	M. Sc. Diana Angélica Aguilar-Ayala	Instituto Politécnico Nacional, México / Ghent University, Belgium
13:10 - 13:30	Questions		
CLINICAL AND EPIDEMIOLOGY			
15:30 - 16:00	"Comorbidity of Diabetes-Tuberculosis"	Dr. Octavio Villalobos	Fronteras Unidas Pro Salud, A.C.
16:00 - 16:30	"Unstoppable progression of drug resistant tuberculosis: from MDR to XDR to TDR"	Dr. Rafael Laniado Laborín	Chief. Tuberculosis Clinic. General Hospital, Tijuana, Secretaria de Salud. Mexico
16:30 - 17:00	"Type 2 diabetes mellitus and its influence in the development of drug resistant tuberculosis in Mexican population"	Dr. Roberto Zenteno Cuevas	Professor. Institute of Public Health, Universidad Veracruzana, Mexico.
17:00 - 17:15	Questions		
17:15 - 17:30	Coffee break		
17:30 - 18:00	" <i>Validation Process and introduction of a biomarker to clinical practice for the pleural TB in Central America: the Panamanian</i> "	Dr. Musharaf Tarajia Asvat	Research. INDICASAT-AIP, Panamá
18:00 - 18:30	" <i>Epidemiology of mixed-strain Mycobacterium tuberculosis infections in a high HIV-prevalent country</i> "	Dr. Shin, Sanghyuk	Professor. Department of Epidemiology, University of California Los Angeles, USA
18:30 - 18:45	Questions		
18:45 - 19:30	Closure		



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**TRABAJOS LIBRES
(POSTERS)**



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Título	Autores
Occurrence of nontuberculous mycobacteria from ready-to-eat sprouts	A. L. Cortés Cueto, N. León Montes, L. P. Salas Rangel, A. C. Helguera Repetto, S. Rivera Gutiérrez, E. Fernández Rendón, R. L. García Reyes, J. F. Cerna Cortés y J. A. González y Merchand
Meningeal Tuberculosis in the Children's Hospital of the State of Sonora: Predictions of Lethality	Olivera-Sandoval S. Cano-Rangel M.A.
Lípid antigen of <i>Mycobacterium bovis</i> and <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> for serological diagnosis of bovine tuberculosis and Johne's disease.	E. Ponce-Barraza, G. López-Valencia, A. De la Mora-Valle, D. Miranda-Guzmán, G.E. Medina-Basulto, T.B. Renteria-Evangelista, S. Eda, S. Hori-Oshima
VNTR-typing of <i>Mycobacterium bovis</i> isolates from cattle in Mexico.	A. Nava-Vargas ¹ ; O.E. Pizano-Martínez ² ; E. Rodríguez-Hernández ³ ; G.J. Cantó-Alarcón ⁴ ; Y. Rubio-Venegas ¹ ; R.I. Guerrero-Solorio ⁴ ; F. Milián-Suazo ⁴ .
Isolation and characterization of toxin from marine snails of the genus <i>Conus</i> with activity in <i>Mycobacterium tuberculosis</i>	J. Bernáldez-Sarabia ¹ and A. Licea-Navarro ¹
Biological characterization of the venom of <i>Conus californicus</i> on <i>Mycobacterium bovis</i> .	A. P. Gutiérrez Ordoñez ¹ , J. Bernaldez Sarabia ¹ and A. F. Licea Navarro ¹ .
Assessment of the antimycobacterial activity of the venom of <i>Conus brunneus</i> and <i>Conus nux</i>	E.E. León-Acosta ¹ , A.P. Gutiérrez-Ordoñez ¹ , J. Bernáldez-Sarabia ¹ and A.F. Licea-Navarro ¹ .



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Título	Autores
Infection of macrophages with dormant <i>Mycobacterium tuberculosis</i> adapted to cholesterol environment	S. Yong-Mendoza, N.M. Alonso-Aguilar, S. Rivera-Gutiérrez, J.F. Cerna-Cortés, J.A. González-Y-Merchand, A.C. Helguera-Repetto
Evaluation of a Dot-ELISA for diagnosis of bovine tuberculosis in field trials	L. Jaramillo-Meza, F. Díaz-Otero , BAV. Gil-Centeno
<i>In vitro</i> persistence of <i>M. avium</i> , <i>M. celatum</i> and <i>M. tuberculosis</i> in human macrophages.	M.D. Soto-Ramírez, A.C. Helguera-Repetto ¹ , J.F. Cerna-Cortés, S. Rivera-Gutiérrez, L. García-Morales, J.A. González-Y-Merchand
Hyperglycemic conditions affect <i>Mycobacterium tuberculosis</i> antigen processing	G. Monroy-Mérida, O. Medina-Contreras, M.P. Sierra-Vargas, K. Bobadilla-Lozoya
Identification of non-tuberculous mycobacteria (NTM) in cervical lymphadenopathy biopsies from HIV-infected patients	B. P. Ruiz-Sánchez, A. Hernández Solis ² , M. González Villa, M. I. Wong-Baeza, H. González González, R. Cicero-Sabido
Molecular and metabolic events in the production of antigen ESAT-6 from <i>Mycobacterium tuberculosis</i> using a thermo-inducible system in recombinant <i>Escherichia coli</i>	S. Restrepo-Pineda, C.G. Bando-Campos, N.A. Valdez-Cruz, M.A. Trujillo-Roldán.
HGF induces protection in a model of Experimental Pulmonary Tuberculosis.	Bello-Monroy O, Enríquez-Cortina C, Rosales-Cruz D. P. , Escobedo-Calvario O. A. , Juárez-Hernández U, Ramos-Robles B, Miranda R. U. , Bucio L, Souza V, Mata-Espinosa D, Barrios-Payán J, Marquina-Castillo B, Gutiérrez-Ruiz M.C. , Hernández-Pando R, Gómez-Quiroz L. E.



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Título	Autores
Autophagy in <i>Mycobacterium abscessus</i> infection	N. S. Castrejón-Jiménez, A. D. Hernández-Pérez, J.C. Hernández-González, J. Luna-Herrera and B.E. García Pérez
Effect of silymarin in response to infection with <i>Mycobacterium</i> in macrophages .	E.M. Rodríguez-Flores, M. Castañón-Arreola.
Benzimidazole derivates as antimicrobial agents.	W. Cruz-Chavez, R. Ruiz-Nicolás, K. Leyva-Paredes, R. Jiménez-Juárez, J. Luna-Herrera, B.E. García-Pérez
Follow up study immune response in calves by vaccination with <i>Mycobacterium bovis</i> BCG-Phipps strain in field conditions	E. Quevillon-Cardinal, L. Jaramillo-Meza, F. Díaz-Otero, R. Lascurain-Ledesma, J.A. Gutiérrez-Pabello
<i>Mycobacterium abscessus</i> infection and replication into lung epithelial cells (A549 cells): role of structural and secretory mycobacterial components	J. C. Hernández-González, N. S. Castrejón-Jiménez, V. Vanzini-Zago, B. E. García-Pérez, J. Luna-Herrera
Effect of resuscitation promoting factor C (rpfC) in the growth and latency gene expression in <i>Mycobacterium bovis</i> BCG.	L. V. Reyes Gonzalez, O. N. Hernández de la Cruz, M. Castañón Arreola.
Effect of EsxA in the miRNA expression profile of human macrophages	M. G. Bonilla Muro, O. N. Hernández de la Cruz, E. M. Rodríguez-Flores, M. Castañón-Arreola.



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Título	Autores
<p>Molecular Identification of Tuberculous and Non-Tuberculous Mycobacteria from Pulmonary and Extrapulmonary Infections Using Real Time PCR</p>	<p>F. Nani-Rodríguez, C. Lara-Ochoa, M. A. Pavón, J. A. Yáñez, Y. Martínez-Laguna, M. L. Cedillo</p>
<p>Mycobacteria in archaeological sites in Mexico</p>	<p>R. Alcalde-Vázquez, N. B. Medina-Jaritz, R. Olvera-Ramírez and J. A. González-Y-Merchand</p>
<p>Zmp1 gene detection in a hypervirulent strain from the <i>Mycobacterium tuberculosis</i> Beijing Family</p>	<p>U. Juárez-Hernández; B. Ramos-Robles; O. Bello-Monroy; D. Mata-Espinosa; S. Rivera-Gutiérrez; M. A. Torres-Vega; R. Hernández-Pando ; P. Figueroa-Arredondo</p>
<p>DIFFERENTIAL RECOGNITION OF <i>M. TUBERCULOSIS</i> ANTIGENS BY LEPROSY AND TUBERCULOSIS SERA.</p>	<p>P. Arce Paredes, S. Islas Trujillo, O. Rojas-Espinosa.</p>
<p>Assessment of protein fractions culture supernatant of <i>Mycobacterium bovis</i> in interferon gamma release assay by ELIspot</p>	<p>Ortega ARA, Díaz OF, Jaramillo ML, Martínez MJJ, Pérez GR, Martínez EH, Lascuraín LR, Santillán FMA, Hernández AL</p>
<p>Immunoendocrine interactions in pulmonary tuberculosis: Influence of infection on the morphology of the male reproductive system</p>	<p>B. Ramos-Robles, R.A. Valdéz, U. Juárez-Hernández, D. Mata-Espinosa, J. Barrios-Payán, O. Bello- Monroy, R.E. Hernández-Pando, M. C. Romano-Pardo</p>



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Título	Autores
<p>Immunoinformatic approach to select <i>Mycobacterium spp.</i> antigen candidates towards the development of an oral vaccine</p>	<p>C. Angulo, P. Carlos, S. Rosales-Mendoza, M. Castro-Liera</p>
<p>Strategies in search of respiratory symptoms for the early detection of cases of tuberculosis</p>	<p>R. E. Reyes Enríquez y E. Acosta Gutiérrez</p>
<p>Evaluation of Xpert MTB / RIF Assay for the diagnosis of <i>Mycobacterium tuberculosis</i> complex in pulmonary and extra pulmonary samples.</p>	<p>DA. Orozco-Jauregui, N. Ayala-Chavira, MF Flores-Torres, Y. Vega-Laguna, M Lopez-Rodríguez</p>
<p>Molecular identification of isoniazid resistance in <i>Mycobacterium tuberculosis</i> complex isolated</p>	<p>A. Santiago-Pineda¹ and L. L. Martinez-Martínez</p>



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