

**DMID INTERNATIONAL RESEARCH IN INFECTIOUS DISEASES MEETING**  
**May 31– June2, 2011**

**BETHESDA NORTH MARRIOTT HOTEL AND CONFERENCE CENTER**  
**BETHESDA, MARYLAND**

**Tuesday, May 31st**

**7:30 AM          Registration**

**9:00 AM          Welcome**  
***Polly Sager* - Assistant Director for International Research in Infectious Diseases,**  
**Division of Microbiology and Infectious Diseases NIAID, NIH, DHHS**

**9:05 AM          Keynote Address: *Dr. Anthony Fauci* – Director, National Institute of Allergy**  
**and Infectious Diseases**  
NIAID Global Health Research: A 20-Year Snapshot

**Session I: ICIDRs and TMRCs**

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<b>9:40 AM          <i>Aldo A.M. Lima</i> – Federal University of Ceará and University of Virginia</b> Long-Term Impact of Zinc, Vitamin A, Glutamine, and Arginine (ZAQR) on Growth and Cognition in Children in NE Brazil	<b>1</b>
<b>10:00 AM          <i>Edward T. Ryan</i> – Massachusetts General Hospital, International Centre for</b> <b>Diarrhoeal Disease Research, Bangladesh</b> Anti- <i>Vibrio cholerae</i> Immune Responses, Including Memory B Cell Responses, in Young Children, Older Children, and Adults with Cholera Caused by <i>V. cholerae</i> O1 El T or Ogawa in Bangladesh	<b>2</b>
<b>10:20 AM          BREAK</b>	
<b>10:40 PM          <i>Edgar M. Carvalho</i> – Federal University of Bahia, Brazil</b> Loss of Antigen-specific Circulating Memory CD4+ T Cells in Individuals with Subclinical <i>L. Braziliensis</i> Infection and in Patients Cured of Cutaneous and Mucosal Leishmaniasis	<b>3</b>
<b>11:00 AM          <i>Jerrold Ellner</i> – Boston University, Boston, MA</b> Multiplex Evaluation of IFN $\gamma$ and CXCL-10 Increases Sensitivity of an Interferon Gamma (IFN $\gamma$ ) Release Assay (IGRA) for the Detection of <i>M. Tuberculosis</i> (MTB) Infection in Household Contacts of TB Patients (HHCs)	<b>4</b>
<b>11:20 AM          <i>Pablo Vial</i> – Universidad del Desarrollo, Santiago, Chile</b> Controlled Trial of High-Dose Intravenous Methylprednisolone for Hantavirus Cardiopulmonary Syndrome (HCPS) in Chile	<b>5</b>

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**Session I: ICIDRs and TMRCs (con't)**

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<b>11:40 AM</b> <b><i>Christopher Plowe</i> – Howard Hughes Medical Institute, University of Maryland School of Medicine, Baltimore MD</b> Molecular and Immune Correlates of Protection by a Blood Stage Malaria Vaccine	<b>6</b>
<b>12:00 PM</b> <b><i>Michael Gottlieb</i> –MAL-ED Consortium</b> MAL-ED : A Multidisciplinary Global Effort to Understand the Vicious Cycle of Malnutrition and Enteric Diseases and Its Consequences for the Growth and Development of Children in the Developing World	<b>7</b>
<b>12:20 PM</b> <b><i>LUNCH</i></b>	

**Session II: Epidemiology and Natural History**

<b>1:20 PM</b> <b><i>Plenary: Peter J. Hotez</i> – The George Washington University, Washington, DC</b> Innovation in the Control and Elimination of Neglected Tropical Diseases	<b>8</b>
<b>2:20 PM</b> <b><i>Eva Harris</i> – University of California, Berkeley, CA, USA</b> Unusual Dengue Virus 3 Epidemic in Nicaragua, 2009	<b>9</b>
<b>2:40 PM</b> <b><i>Barry Beaty</i> – Colorado State University, Fort Collins, CO, USA</b> Studies on the Control of <i>Aedes aegypti</i> and Epidemic Dengue and on the Diagnosis and Prognosis of Dengue Infections in Merida, Mexico	<b>10</b>
<b>3:00 PM</b> <b><i>Kamrul Hasan</i> – Jahangirnagar University, Savar, Bangladesh</b> Monkeys on the Move: What Role Do Performing Monkeys Play in the Movement of Infectious Agents in Bangladesh?	<b>11</b>
<b>3:20 PM</b> <b><i>BREAK</i></b>	
<b>3:40 PM</b> <b><i>Aubree Gordon</i> – University of California, Berkeley, CA, USA</b> Influenza In The Tropics: High Burden and Defined Seasonality in a Nicaraguan Pediatric Cohort	<b>12</b>

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**Session II: Epidemiology and Natural History (con't)**

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<b>4:00 PM</b>	<b><i>Philip Hopewell</i> – University of California, San Francisco, CA, USA</b> Tuberculosis Epidemiology and Novel Transmission Routes in Rural Tanzania	<b>13</b>
<b>4:20 PM</b>	<b><i>Jamila El Baghdadi</i> – Military Hospital Mohamed V, Hay Riad Rabat, Morocco</b> Genetic Predisposition to Tuberculosis: IL-12R $\beta$ 1 Deficiency in Two of Fifty Children with Severe Tuberculosis	<b>14</b>
<b>4:40 PM</b>	<b><i>Selma Jeronimo</i> – Universidade Federal do Rio Grande do Norte, Natal, RN, Brazil</b> The Dynamics of <i>Leishmania infantum chagasi</i> Infection in Periurban Areas of the state of Rio Grande do Norte	<b>15</b>
<b>5:00 PM</b>	<b><i>Alain B. Labrique</i> – Program for Global Disease Epidemiology and Control, Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA</b> Seroincidence of Intrapartum Hepatitis E Virus Infections in Pregnant Bangladeshi Women Between 2001 and 2010	<b>16</b>

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**Session 111: Treatment and Diagnostics**

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<b>8:30 AM</b>	<b>Plenary: Mark Mirochnick –Boston University, Boston, MA, USA</b>	<b>17</b>
<b>9:40 AM</b>	<b>Edmund Seto – School of Public Health, University of California, Berkeley, CA, USA</b> Developing Effective Tools to Combat Low-level Schistosomiasis Transmission in Sichuan, China	<b>18</b>
<b>10:00 AM</b>	<b>Wei Li – Colorado State University, Fort Collins, CO, USA</b> Rapid and Cost Effective Molecular Assays for Surveillance of Drug Resistance in Leprosy and Strain Typing of <i>Mycobacterium leprae</i> Using Real Time PCR High Resolution Melt Analysis	<b>19</b>
<b>10:20 AM</b>	<b>BREAK</b>	
<b>10:40 AM</b>	<b>Marivic Balagon – Leonard Wood Memorial, Cebu Skin Clinic, Cebu Philippines</b> Molecular Epidemiology of Leprosy in Cebu: Insights on Incidence, Transmission and Geographical Distribution During 2004-2010 Via <i>Mycobacterium leprae</i> Strain Typing.	<b>20</b>
<b>11:00 AM</b>	<b>Alan Poling – APOPO, Morogoro, Tanzania</b> Using Trained Pouched Rats ( <i>Cricetomys Gambianus</i> ) to Detect Human Tuberculosis	<b>21</b>
<b>11:20 AM</b>	<b>Yap Boum II – Epicentre Mbarara, Uganda</b> Diagnosis of Pulmonary Tuberculosis Using Colorimetric Methods in High Burden Resource Limited Countries.	<b>22</b>
<b>11:40 AM</b>	<b>Katherine A. Brown – Institute for Cellular and Molecular Biology, The University of Texas at Austin, Austin, Texas USA</b> Development of Reagents and Assays for the Detection Of Pathogenic <i>Burkholderia</i> Species	<b>23</b>
<b>12:00 PM</b>	<b>LUNCH</b>	

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**Session IV: Pathogenesis and Immunology**

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<b>1:00 PM</b>	<b><i>Plenary: John Mekalanos – Harvard Medical School, Boston MA, USA</i></b>	<b>24</b>
<b>2:00 PM</b>	<b><i>Reem Al-Mubarak – Colorado State University, Fort Collins, CO, USA</i></b> Identification of Increased Levels of Polyunsaturated Fatty Acids in Serum of Lepromatous Leprosy Patients: Implications for Leprosy Biomarker Discovery and Mechanisms of Pathogenesis	<b>25</b>
<b>2:20 PM</b>	<b><i>Lucas P. Carvalho – Federal University of Bahia, Salvador, Brazil</i></b> TSLP Regulates Immune Response in Human Cutaneous Leishmaniasis	<b>26</b>
<b>2:40 PM</b>	<b><i>Fernanda Novalis – Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA, USA</i></b> The Role of CD8 T Cells in <i>Leishmania braziliensis</i> Infection	<b>27</b>
<b>3:00 PM</b>	<b><i>BREAK</i></b>	
<b>3:20 PM</b>	<b><i>Alan L. Rothman – University of Massachusetts Medical School, Worcester, MA, USA</i></b> B Cell Responses During Primary and Secondary Dengue Virus Infections in Humans	<b>28</b>
<b>3:40 PM</b>	<b><i>Shahid Jameel – International Centre for Genetic Engineering and Biotechnology, New Delhi, India</i></b> Proteomic, Peptidomic and Metabonomic Analysis of Hepatitis E Infected Patients Provides Insights into Disease Pathogenesis	<b>29</b>
<b>4:00 PM</b>	<b><i>Walderez O. Dutra – Department of Morphology and INCT-DT, Institute of Biological Sciences, UFMG, SRI International, Biosciences Division, Center for Infectious Disease Research, Menlo Park, CA, USA</i></b> <i>Trypanosoma cruzi</i> -Induced Activation of Functionally Distinct and CD4-CD8- (Double Negative) T Cells in Individuals with Polar Forms of Chagas Disease	<b>30</b>

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<b>4:20 PM</b>	<b><i>Richelle C. Charles</i> – Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, USA; Department of Medicine, Harvard Medical School, Boston, MA, USA High-throughput Proteomic-based Screening of Anti- <i>V. cholerae</i> Antibody Responses in Humans</b>	<b>31</b>
<b>4:40 PM</b>	<b><i>Philip L. Felgner</i> – University of California, Irvine, CA, USA Predicting Immunity to Malaria and Leptospirosis on a Genome-wide Scale with Proteome Microarrays</b>	<b>32</b>
<b>5:30 PM</b>	<b><i>POSTER SESSION</i></b>	

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**Session V: Vaccines and Immunology**

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8:40 AM	<b>Plenary: Kim Mulholland – Menzies School of Health Research, Darwin, London School of Hygiene and Tropical Medicine, London, UK; Murdoch Childrens Research Institute, Melbourne, Australia</b> New Vaccines in Developing Countries – What Research is Needed and Whose Responsibility is It?	33
9:40 AM	<b>Firdausi Qadri – International Centre for Diarrheal Disease Research, Bangladesh (ICDDR, B)</b> Safety and Immunogenicity of an Oral Inactivated Whole Cell Bivalent Cholera Vaccine, ShanChol, in Bangladeshi Participants: Phase II Studies in an Age Descending Design from Adults to Young Children	34
10:00 AM	<b>Thomas A. Ficht – Dept. Veterinary Pathobiology, Texas A&amp;M University and Dept. Molecular and Cellular Medicine, Texas A&amp;M Health Science Center' College Station, TX, USA</b> Particle Delivery Systems Enhance the Efficacy of Brucellosis Vaccines	35
10:20 AM	<b>Sharon Witonsky – Virginia Maryland Regional College of Veterinary Medicine, Virginia Tech, Blacksburg, VA, USA</b> Role of TLRs in DC Function and Clearance of <i>Brucella abortus</i> Vaccine and Pathogenic Strains in Vitro and in Vivo	36
10:40 AM	<b>BREAK</b>	
11:00 AM	<b>Ladaporn Bodhidatta – Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand</b> Clinical Aspects of an Evaluation of Safety, Immunogenicity, and Efficacy of WRSS1, an Oral Live Attenuated Shigella Sonnei Vaccine Candidate, in Thai Adults	37
11:20 AM	<b>Shaden Kamhawi – Vector Molecular Biology Section, Laboratory of Malaria and Vector Research, NIAID, NIH, Rockville, MD, USA</b> Mechanism of Protection Against Leishmaniasis Resulting from Immunity to Salivary Proteins of Vector sand Flies and Their Relevance in Humans	38

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**Session V: Vaccines and Immunology (con't)**

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<b>11:40 AM</b>	<b><i>Kenneth Gollob</i> – Tropical Disease Research Program, Center for Infectious Disease Research, SRI International, Menlo Park, CA, USA</b> CD4+ Memory T Cell Assessment in Individuals with Active Cutaneous Leishmaniasis: Differential Distribution of Immunoregulatory Potential	<b>39</b>
<b>12:00 PM</b>	<b><i>Om Prakash Singh</i> – Infectious Disease Research Laboratory, Department of Medicine, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India</b> Antigen Specific IFN- $\gamma$ /IL-10 Ratio Correlates with Disease Status in Human Visceral Leishmaniasis	<b>40</b>
<b>12:20 PM</b>	<b><i>Diana Martin</i> – Centers for Disease Control and Prevention, Atlanta, GA, USA</b> T Cell Responses to <i>Trypanosoma cruzi</i> in Regions with High or Low Serology	<b>41</b>



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**POSTER SESSION**

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| <p>1. <b><i>Borrelia Burgdorferi</i> Lmp1 Domains are Potentially Processed as Separate Polypeptides and Play Independent Roles in Infectivity</b><br/>Xiuli Yang<sup>1,2</sup>, Alexis A. Smith<sup>1,2</sup>, Brian Backstedt<sup>1,2</sup>, Toru Kariu<sup>1,2</sup> and Utpal Pal<sup>1,2</sup><br/><sup>1</sup>Department of Veterinary Medicine, University of Maryland, College Park and <sup>2</sup>Virginia-Maryland Regional College of Veterinary Medicine, College Park, MD, USA</p>  | <b>42</b>   |
| <p>2. <b>The Hepatitis E Virus ORF3 Protein Regulates the Expression of Liver-Specific Genes by Modulating Localization of Hepatocyte Nuclear Factor 4</b><br/>Vivek Chandra<sup>1</sup>, Prasida Holla<sup>1</sup>, Dhruva Ghosh<sup>1</sup>, Debarshi Chakrabarti<sup>2</sup>, Muralidhara Padigar<sup>2</sup> and Shahid Jameel<sup>1</sup><br/><sup>1</sup>International Centre for Genetic Engineering and Biotechnology, New Delhi, India, <sup>2</sup>Piramal Life Sciences Limited, Mumbai, India</p>   | <b>43</b>   |
| <p>3. <b>Cross-Reactive Antibodies to Avian Influenza H5N1 and 2009 Pandemic H1N1 in Non-exposed US Military Personnel</b><br/>S. Pichyangkul<sup>1</sup>, D. L. Saunders<sup>1</sup>, A. Jongkaewwattana<sup>2</sup>, A. Thitithanyanont<sup>3</sup>, S. Wiboon-ut<sup>3</sup>, J. Kramyu<sup>2</sup>, K. Yongvanitchit<sup>1</sup>, A. Limsalakpetch<sup>1</sup>, U. Kum-Arb<sup>1</sup>, D. Mongkolsirichaikul<sup>1</sup>, N. Khemnu<sup>1</sup>, A. Timmermans<sup>1</sup>, R. G. Jarman<sup>1</sup>, J-M Garcia<sup>4</sup>, M. Peiris<sup>4</sup>, M. Moyle<sup>5</sup>, C. J. Mason<sup>1</sup>, D. G. Heppner<sup>6</sup>, and D. S. Walsh<sup>1</sup><br/><sup>1</sup>USAMC-AFRIMS, Thailand, <sup>2</sup>BIOTEC, Thailand, <sup>3</sup>Mahidol University, Thailand, <sup>4</sup>HKU-Pasteur, Hong Kong, <sup>5</sup>Theraclone Sciences, USA, <sup>6</sup>WRAIR, USA</p>  | <b>44</b>   |
| <p>4. <b>Immunological and Viral Features in Patients with Overactive Bladder Indicate an Early Stage of Myelopathy</b><br/>Silvane B. Santos<sup>1,2,3</sup>, Paulo Oliveira<sup>1</sup>, Matheus Tannus<sup>1</sup>, Tania Luna<sup>1</sup>, Anselmo Souza<sup>1,3</sup>, Thais Delavechia<sup>1</sup>, Márcia Nascimento<sup>1</sup>, Glória Orge<sup>1</sup>, Isadora Siqueira<sup>1</sup>, Davi Tanajura<sup>1,3</sup>, André Luiz Muniz<sup>1,3</sup>, Marshall J Glesby<sup>4</sup> &amp; Edgar M. Carvalho<sup>1,3</sup><br/><sup>1</sup>Serviço de Imunologia, Complexo Hospitalar Universitário Professor Edgard Santos Universidade Federal da Bahia, Salvador, Bahia, Brazil <sup>2</sup>Departamento de Ciências Biológicas, Universidade Estadual de Feira de Santana, Bahia, Brazil; <sup>3</sup>Instituto Nacional de Ciência e Tecnologia de Doenças Tropicais (CNPq/MCT), Salvador, Bahia, Brazil; <sup>4</sup>Weill Cornell Medical College, New York, NY, USA</p> | <b>45</b>   |

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JoLynn P. Montgomery, Ying Zhang, Joshua L. Clayton, Bradley F. Carlson, Matthew L. Boulton University of Michigan School of Public Health, University of Michigan and Tianjin Centers for Disease Control and Prevention	
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Bradley F. Carlson, Matthew L. Boulton, JoLynn P. Montgomery, Xiexiu Wang, Ying Zhang, Brenda Gillespie University of Michigan School of Public Health, University of Michigan and Tianjin Centers for Disease Control and Prevention	
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Magelda Montoya <sup>1</sup> , Simona Zompi <sup>2</sup> , Marie Pohl <sup>2</sup> , Angel Balmaseda <sup>1</sup> , Eva Harris <sup>2</sup> <sup>1</sup> Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua; <sup>2</sup> Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, CA, USA	
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| <p><b>10. Molecular Epidemiology Investigations of Leprosy in China: Insights on Transmission in Endemic Qiubei County, Yunnan (2002-2010) and Genotypic Variations of <i>Mycobacterium Leprae</i> Across China</b></p> <p>Xiaoman Weng<sup>1</sup>, Jason Vander Heiden<sup>2</sup>, Yan Xing<sup>1</sup>, Jian Liu<sup>2</sup>, Wang Yonghong<sup>3</sup>, Ning Yong<sup>4</sup>, Li Ming<sup>5</sup>, Wu Wenbing<sup>6</sup>, Zhang Lianhua<sup>7</sup> and Varalakshmi Vissa<sup>2</sup></p> <p><sup>1</sup>Beijing Friendship Hospital - Affiliate of Capital University of Medical Sciences, Beijing Tropical Medicine Research Institute, Beijing, China, <sup>2</sup>Department of Microbiology, Immunology, and Pathology, Colorado State University, Fort Collins, Colorado, USA, <sup>3,4,5,6,7</sup> Provincial Skin Disease Control Stations in Guizhou, Sichuan, Guangdong, Fujian and Jiangsu</p>  | <b>51</b>   |
| <p><b>11. Incidence Of Clinical Malaria Episodes in High and Seasonal Malaria Transmission Area of Burkina Faso</b></p> <p>Ouédraogo Alphonse<sup>1</sup>, Tiono B. Alfred<sup>1</sup>, Diarra Amidou<sup>1</sup>, Sanon Souleymane<sup>1</sup>, Yaro Jean Baptist<sup>1</sup>, Ouedraogo Esperance<sup>1</sup>, Ouedraogo Amathe<sup>1</sup>, Konate T. Amadou<sup>1</sup>, Nebie Issa<sup>1</sup>, Nora Watson<sup>3</sup>, Megan Sanza<sup>3</sup>, Tina J.T. Dube<sup>3</sup>, Sirima Sodiomon Bienvenu<sup>2</sup></p> <p><sup>1</sup>Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, <sup>2</sup>Centre National de Recherche et de Formation sur le Paludisme, Groupe d'action et de Recherche en Santé, Ouagadougou, Burkina Faso, <sup>3</sup>The EMMES Corporation, Rockville, Maryland</p>   | <b>52</b>   |
| <p><b>12. Anti-Triatomine Saliva Immunoassays for the Evaluation of Impregnated Netting Trials Against Chagas Disease Transmission</b></p> <p>Alexandra Schwarz<sup>a</sup>, Jenny Ancca Juarez<sup>b</sup>, Jean Richards<sup>b</sup>, Bruno Rath<sup>b</sup>, Victor Quispe Machaca<sup>c</sup>, Yagahira E. Castro<sup>c</sup>, Edith Malaga<sup>c</sup>, Katelyn Levy<sup>d</sup>, Robert H. Gilman<sup>e</sup>, Caryn Bern<sup>f</sup>, Manuela Verastegui<sup>c</sup>, Michael Z. Levy<sup>d,*</sup></p> <p><sup>a</sup> Laboratory of Genomics and Proteomics of Disease Vectors, Institute of Parasitology, Biology Centre of the Academy of Sciences of Czech Republic, České Budějovice, Czech Republic, <sup>b</sup> Laboratorio de Investigación y Desarrollo, Universidad Peruana Cayetano Heredia, Lima, Perú, <sup>c</sup> Asociación Benéfica Prisma, Lima, Perú, <sup>d</sup> Department of Epidemiology and Biostatistics, Center for Clinical Epidemiology and Biostatistics, School of Medicine, University of Pennsylvania, Philadelphia, USA, <sup>e</sup> Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, USA, <sup>f</sup> Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, USA</p> | <b>53</b>   |

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| <p><b>13. <i>Trypanosoma cruzi</i> Activates Cord Blood Myeloid Dendritic Cells, Promoting Proliferation of CD8+ T Cells and IFN- <math>\gamma</math> Secretion</b></p> <p>Carine Truyens, Patricia Rodríguez, Yves Carlier<br/>Lab. of Parasitology, Faculty of Medicine, Université Libre de Bruxelles, Brussels, Belgium</p>  | <b>54</b> |
| <p><b>14. Maternal infection with <i>Trypanosoma cruzi</i> and Congenital Chagas Disease Polarize Infant Immune Responses to Vaccines Toward a Type 1-Response</b></p> <p>Yves Carlier<sup>1</sup>, Nicolas Dauby<sup>1</sup>, Cristina Alonso-Vega<sup>2</sup>, Eduardo Suarez<sup>2</sup>, Amilcar Flores<sup>2</sup>, Emmanuel Hermann<sup>1</sup>, Marisol Córdova<sup>2</sup>, Tatiana Tellez<sup>2</sup>, Faustino Torrico<sup>2</sup> and Carine Truyens<sup>1</sup><br/><sup>1</sup>Lab. of Parasitology, Faculty of Medicine, Université Libre de Bruxelles, Brussels (ULB), Belgium; <sup>2</sup>Faculty of Medicine, Universidad Mayor de San Simon (UMSS), Cochabamba, Bolivia</p>   | <b>55</b> |
| <p><b>15. Human Lipid Metabolism is Altered by <i>Leishmania Infantum Chagasi</i> Infection</b></p> <p>Cristina I. Ottoni,<sup>1</sup> Adam Simons,<sup>1</sup> Nubia N. Pontes,<sup>1,2</sup> Richard D. Pearson,<sup>3</sup> Upasna Gaur,<sup>4</sup> Noah Craft,<sup>5</sup> Kevin Bruhn,<sup>5</sup> Mary E. Wilson,<sup>4</sup> Selma M.B. Jeronimo<sup>1,2,6</sup><br/><sup>1</sup>Department of Biochemistry, and <sup>2</sup>Health Post-Graduate Program, Universidade Federal do Rio Grande do Norte, Natal, RN, Brazil; <sup>3</sup> Department of Medicine and Pathology, University of Virginia, Charlottesville, VA; <sup>4</sup>Department of Medicine, University of Iowa, Iowa City, IA; <sup>5</sup>Divisions of Dermatology and Infectious Diseases, Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center and University of California at Los Angeles, CA, USA, <sup>6</sup>Institute of Science and Technology of Tropical Diseases, Salvador, BA, Brazil</p> | <b>56</b> |