Mary Kirkland Center for Lupus Research

Scientific Conference to Celebrate the 10th Anniversary of the Kirkland Scholar Program

Friday, September 16th – Saturday, September 17th, 2011

Grand Hyatt Hotel
E. 42nd St. and Lexington Ave., New York, NY
SCIENTIFIC PROGRAM (BALLROOM V)

7:00-8:15  BREAKFAST (BALLROOM IV)

Session I

8:15-9:00  Keynote Talk : Dr. Jeffrey V. Ravetch, MD, PhD

Theresa and Eugene M. Lang Professor, Head, Laboratory of Molecular Genetics and Immunology, The Rockefeller University
“The Protean Roles of Antibodies in Immunity and Inflammation”

9:00-9:25  Jane Salmon, MD: “Mediators of Pregnancy Complications in Patients with Anti-Phospholipid Antibodies and Patients with Lupus”


9:45 – 10:00 COFFEE BREAK

Session II - Innate Immunity

10:00–10:20  Anirudh J. Ullal, PhD, and David Pisetsky, MD: “The role of microparticles in the generation of immune complexes in systemic lupus erythematosus”

10:20-10:40  Katalin Kis-Toth, PhD and George Tsokos, MD: “Cytosolic DNA-activated human dendritic Cells are potent activators of the adaptive immune response”

10:40-11:00  Simone Caielli, PhD and Virginia Pascual, MD: “SLE neutrophil extracellular traps are major amplifiers of IFN production and plasmacytoid dendritic cell maturation “

11:00-11:20  Deanna M. Santer, PhD, Alice Wiedeman, BS, and Keith Elkon, MD: “Regulation of lupus immune complex stimulation of plasmacytoid dendritic cells by C1q”

11:20-11:40  Ram Pyare Singh, PhD and Bevra Hahn, MD: “Expression of Interferon-inducible genes are regulated by sex hormones and gender in SLE”

11:40-12:00  Gary Gilkeson, MD: “Estrogen receptor alpha regulates the inflammatory response in systemic lupus erythematosus via modulating toll-like receptor signaling”
### Session II - Innate Immunity

**12:00-12:20**  
**Peggy Crow, MD:** "Molecular pathways activated in lupus flare"

**12:20-1:20**  
**Luncheon (Ballroom IV)**

### Session III - Adaptive Immunity and Organ Damage

**1:20-1:40**  
**Amanda Poholek, PhD, Jin-Young Choi, PhD and Joseph Craft, MD:** "Follicular helper T cells and the B cells they help"

**1:40-2:00**  
**Tamara K. Nowling, MD Gary Gilkeson, MD:** "Effects of altering Fli1 levels in lupus T cells on disease expression and T cell function in the MRL/lpr mouse model"

**2:00-2:20**  
**Alice Wiedeman, BS and Keith Elkon, MD:** "TLR7 overexpression promotes accumulation of autoreactive CD19+ CD11c+ B cells"

**2:20-2:40**  
**Maureen McMahon, MD and Bevra Hahn, MD** “High oxidative stress is associated with a 13 fold increased odds for the progression of subclinical atherosclerosis in SLE”

**2:40-3:00**  
**Coffee Break**

**3:00-3:20**  
**Ram Bethunaickan, PhD and Anne Davidson, MD:** "A unique renal hybrid monocyte activation phenotype and its cross species transcriptional network between murine and human lupus nephritis"

**3:20-3:40**  
**Lionel Ivashkiv, MD:** "IFNs and SLE pathogenesis"

**3:40-4:00**  
**Theresa Lu, MD:** "Mechanisms of UV light-induced skin inflammation-the dendritic cell-vascular axis”

**4:00-5:00**  
**Discussion:** Moderator: David Pisetsky, MD, "Opportunities for Translation of Research Advances to Improve Patient Outcomes”

**5:00-6:30**  
**Poster Presentations – Ballroom IV**  
(Wine and Cheese Served)
**Saturday, September 17th, 2011**  
Session IV  
Clinical Studies

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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tr>
<td>7:00-8:00</td>
<td>Breakfast (Ballroom IV)</td>
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<td>8:00-8:20</td>
<td>Karen Costenbader, MD</td>
<td>“Prevalence and demographics of systemic lupus erythematosus and lupus nephritis among U.S. children with Medicaid coverage, 2002-2004”</td>
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<td>8:20-9:00</td>
<td>Matthew Liang, MD</td>
<td>“Incidence, clinical manifestations and survival of SLE patients in a total population study of Afro-Caribbeans from the Barbados National Lupus Registry”</td>
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<td>9:00-9:20</td>
<td>Antonio Avina-Zubieta, MD, and John Esdaile, MD</td>
<td>“Direct medical costs for systemic lupus erythematosus in British Columbia, Canada: A Population-Based Study”</td>
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<td>9:20-9:40</td>
<td>Graciela Alarcón, MD</td>
<td>“Mestizo ethnicity is a risk factor for renal disease occurrence in SLE while antimalarials exert a protective effect: Data for a multi-national, multi-institution Latin American cohort”</td>
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<td>9:40-10:00</td>
<td>Lindsey Criswell, MD</td>
<td>“European genetic ancestry protects against the development of renal disease in SLE”</td>
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<td><strong>10:00-10:15</strong></td>
<td>Coffee Break</td>
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<td>10:15-10:35</td>
<td>Maria Dall’Era, MD and David Wofsy, MD</td>
<td>“The ACCESS Trial: A novel design to determine whether Abatacept Plus Pulse Cyclophosphamide can induce sustained remission (‘tolerance’) in patients with lupus nephritis”</td>
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<td>10:35-10:55</td>
<td>Peter Izmirly, MD and Jill Buyon MD</td>
<td>“Hydroxychloroquine and prevention of Anti-SSA/Ro associated cardiac disease in mothers with a previous child with neonatal lupus”</td>
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<td>10:55-11:15</td>
<td>Michael Lockshin, MD, Eliza Kozora, PhD, Doruk Erkan, MD</td>
<td>“Cognitive function in SLE: Geographic differences and neuroimaging correlates”</td>
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<td>11:15-11:35</td>
<td>Laura Julian, PhD and David Wofsy, MD</td>
<td>“Quantification of brain abnormalities and cognitive impairment in SLE”</td>
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<td>11:35-12:00</td>
<td>Discussion</td>
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<td><strong>12:00</strong></td>
<td>Meeting Adjourned</td>
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<td>Scientific Poster Presentations:</td>
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| **Effects on IRF5 first exon usage of an allele associated with risk for lupus**  
  Daniel N. Clark, Brian D. Poole, PhD |
| **Mechanistic study of role of interferon alpha in a murine lupus model**  
  Zheng Liu PhD, Ramalingam Bethunaickan PhD, Weiqing Huang, Meera Ramanujam, Michael P. Madaio, Anne Davidson, MD |
| **A potential role for myeloid derived suppressor cells in the protection from lupus-like disease in male (NZB x NZW) F1 mice**  
  Abhishek Trigunaite, Ayesha Khan, Sanjay Varikuti, Justin Jones and Trine N. Jorgensen, PhD |
| **Relative expansion of CD28- and HLA-DR+ CD8+ T in pediatric SLE reflects skewing of CD8+ T lymphocytes towards a terminally differentiated/effector memory cytotoxic phenotype.**  
  Gerlinde Obermoser, MD, Florence Allantaz, Jacques Banchereau and Virginia Pascual, MD |
| **Differential DNA methylation associated with anti-dsDNA autoantibody production in systemic lupus erythematosus**  
  Sharon A. Chung, MD, Kimberly E. Taylor, Hong L. Quach, Lisa F. Barcellos, Lindsey A. Criswell, MD |
| **Outcome of individuals with high titer ANA but “asymptomatic”**  
  I. Villa, M Lopez-Hoyos, J Calvo-Alen, MD |
| **Lessons from a nation-wide registry of systemic rheumatic diseases**  
  Axel Finckh, MD |
| **Proof-of-Concept Study of a Novel Internet-based Identification of Persons with Possible Systemic Rheumatic Disease**  
  Matthew H. Liang MD, Maura C.M. Couto, Cátia C.M. Duarte, Victoria Gall, Patience White, Stanley Naides, H. Ralph Schumacher, Jr., V. Michael Holers, Kevin D. Deane, Samar Gupta, I-Cheng Ho, Axel Finckh MD, Jacek Kopec, Linda Li, Eric C. Sayre |
| **Mortality and Readmission of Patients with Systemic Lupus Erythematosus (SLE) Admitted to a Tertiary Hospital**  
  Valentina Peeva, MD J Su, and Paul Fortin, MD |
| **Pure membranous lupus nephritis in Caucasian patients: Clinical features and current therapy**  
  Lucía Silva-Fernández, MD |
| **B Lymphocyte Stimulator Levels in Systemic Lupus Erythematosus**  
  Lauren L. Ritterhouse, Sherry R. Crowe, Timothy B. Niewold, Joan T. Merrill, Amy B. Dedeke, Gillian M. Air, Linda F. Thompson, Joel M. Guthridge, Judith A. James, MD |
| **Does Epstein-Barr Virus Initiate Lupus Autoimmunity?**  
  John B. Harley, MD, PhD |
| **Respiratory Function in SLE Measured with Spirometry and Symptomatically During a Walking Test**  
  CA Mancuso, MD, M Perna, JE Salmon, MD |
| **Intrinsic unresponsiveness Mertk/- B cells in the cGVH is associated with failure to downregulate MZ CD1d**  
  Wen-Hai Shao, PhD, Yuxuan Zhen, Fred D. Finkelman, Robert A. Eisenberg, Philip L. Cohen, MD |
| **MicroRNA Regulation of the Interferon Pathway in SLE**  
  Qiu Guo, PhD, Agata Krzyzanowska, Rolando Duculan, Kyriakos Kirou, and Mary K. Crow, MD |