Scientific Program

Day 1. November 27, 2017 – BERG HALL, LI KA SHING CENTER

7:30-9:00 Registration
8:30-9:00 Breakfast
9:00-9:15 Welcome Address - Mark M Davis

Session I. Longitudinal Studies of Aging (chair: Alberto Mantovani)

9:15-9:50 Luigi Ferrucci* The mild proinflammatory state of aging: What we know and what we would like to know
9:50-10:25 Claudio Franceschi Inflammaging, Anti-Inflammaging and Garbaging: what we learned from centenarians
10:25-11:00 Shai Shen-Orr High resolution longitudinal immune profiling reveals immunosenescence dynamics and attractor states

11:00-11:15 Coffee Break

Session II. Inflammation and Chronic Disease (chair: Justin Sonnenburg)

11:15-11:50 Alberto Mantovani* The Yin and Yang of Macrophages in Chronic Smoldering Inflammation, Tissue Repair and Cancer
11:50-12:25 David Furman Inflammation in Hypertension and Pathological Tissue Remodeling
12:25-1:00 Andrew Miller Inflammation and Depression: Mechanisms, Mediators and Therapeutic Implications

1:00-2:00 Lunch Break

Session II. Inflammation and Chronic Disease (cont’d)

2:00-2:35 Alessio Fasano How Nutrition, Gut Microbiome, And Intestinal Permeability Can Impact Inflammatory Processes and Aging
2:35-3:10 George Slavich Inflammatory reactivity to social stress : Underlying mechanisms and relevance for disease

3:10-3:30 Coffee Break

Session III. Environment and immune modulation (chair: Eric Verdin)

3:30-4:05 Gary Miller The Exposome: Environmental Factors Driving Inflammation and Neurodegeneration
4:05-4:40 Nicole Kleinstreuer Translational Systems Toxicology: Chemical-Disease Interactions
4:40-5:15 Justin Sonnenburg Could a deteriorated gut microbiome be the primary driver of Western diseases?
5:15-5:30 Eric Verdin Remarks

6:00-8:00 Reception and Poster Session
Day 2. November 28, 2017 – BERG HALL, LI KA SHING CENTER

7:45-8:15 Breakfast

**Session IV. Mechanisms of biological aging** (chair: Mark M Davis)

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tr>
<td>8:15-8:50</td>
<td>Vishwa Dixit*</td>
<td>Immunometabolic Regulation of Healthspan</td>
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<td>8:50-9:25</td>
<td>Anne Brunet</td>
<td>Epigenetics of Aging</td>
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<td>9:25-10:00</td>
<td>Nir Barzilai</td>
<td>How to die young at a very old age</td>
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10:00-10:10 **Coffee Break**

10:10-10:45 Thomas Rando Age-related decline in stem cell function
10:45-11:20 Judith Campisi Cellular senescence links inflammation and chronic diseases of aging
11:20-11:55 Derek Gilroy Defective resolution of acute inflammation in elderly volunteers

11:55-12:45 **Lunch Break**

**Session IV. Mechanisms of biological aging (cont’d) (chair: Claudio Franceschi)**

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<tr>
<th>Time</th>
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<tr>
<td>12:45-1:20</td>
<td>Eric Verdin</td>
<td>NAD+ metabolism in macrophage and aging</td>
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<td>1:20-1:55</td>
<td>Mark M Davis</td>
<td>Evaluating the T cell response repertoire in aging</td>
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<td>1:55-2:30</td>
<td>Scott Boyd</td>
<td>Effects of aging on B cell repertoires and vaccine responses</td>
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2:30-2:45 **Coffee Break**

2:45-3:20 Jorg Goronzy Epigenetics of T-cell aging
3:20-3:55 Cornelia Weyand Metabolic and telomeric control of pro-inflammatroy T cells
3:55-4:30 Rita Effros Telomere/telomerase dynamics in T cells: linking HIV disease and aging

4:30-5:00 Discussion and Closing Remarks

*Keynote speaker*