<table>
<thead>
<tr>
<th>Start Time</th>
<th>Finish Time</th>
<th>Presentation</th>
<th>Discussion</th>
<th>Welcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>8:05 AM</td>
<td>Michael N. Sack, MD, PhD</td>
<td>0:00</td>
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<tr>
<td>8:05 AM</td>
<td>8:15 AM</td>
<td>Elizabeth G. Nabel, MD</td>
<td>0:10</td>
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</tbody>
</table>

**Session 1**

8:15 AM - 8:35 AM 0:15 0:05  | Proteolytic Control of Mitochondrial Biogenesis and Dynamics  | Thomas Langer  |
8:35 AM - 8:55 AM 0:15 0:05  | The PGC Family is Master Regulators of Mitochondrial Biogenesis  | Bruce M. Spiegelman, PhD  |
8:55 AM - 9:15 AM 0:15 0:05  | Assembling the Components and Circuitry for Mitochondrial Biogenesis  | Vamsi K. Mootha, MD  |
9:15 AM - 9:35 AM 0:15 0:05  | Mitochondrial Gene Expression and Signaling in Disease and Aging  | Gerald S. Shadel PhD  |
9:35 AM - 9:50 AM 0:10 0:05  | Oral Poster Presentation 1  |  |
9:50 AM - 10:25 AM 0:35 0:00  | Break  |  |

**Session 2**

10:25 AM - 10:45 AM 0:15 0:05  | Mechanisms of Cardioprotection by Nitric Oxide acting at the Mitochondrial Level  | Paul S. Brookes, PhD  |
10:45 AM - 11:05 AM 0:15 0:05  | New Perspectives on the Role of Mitochondria in Heart Disease  | Brian O'Rourke, PhD  |
11:05 AM - 11:25 AM 0:15 0:05  | Keeping Mitochondria in Shape: A Matter of Life and Death  | Luca Scorrano, MD, PhD  |
11:25 AM - 11:45 AM 0:15 0:05  | Mitochondrial Production of Reactive Oxygen Species  | Dmitry B. Zorov, PhD  |
11:45 AM - 12:05 PM 0:15 0:05  | Mitochondrial Pathways for Reactive Oxygen Species Formation and Myocardial Injury  | Fabio Di Lisa, MD  |
12:05 PM - 1:35 PM 1:30 0:00  | Lunch/Attended Poster Session  |  |

**Session 3**

1:35 PM - 1:55 PM 0:15 0:05  | The Dynamics of the Mitochondrial Proteome  | Peipei Ping, PhD  |
1:55 PM - 2:15 PM 0:15 0:05  | Mitochondria in Heart Failure  | Jennifer Van Eyk, PhD  |
2:15 PM - 2:35 PM 0:15 0:05  | Systems Biology of the Mitochondria  | Robert S. Balaban, PhD  |
2:35 PM - 2:50 PM  | 0:10  | 0:05  | Oral Poster Presentation 2  

Session 4  

2:50 PM - 3:10 PM  | 0:15  | 0:05  | Imaging of Mitochondrial Function  
Chair: Robert S. Balaban, PhD  

2:50 PM - 3:10 PM  | 0:15  | 0:05  | Dynamic Cardiac Mitochondria  
W. Jonathan Lederer, MD, PhD  

3:10 PM - 3:35 PM  | 0:25  | 0:00  | Break  

3:35 PM - 3:55 PM  | 0:15  | 0:05  | A functional link between mitochondrial morphology and cell cycle progression at G1-S  
Jennifer A. Lippincott-Schwartz, PhD  

3:55 PM - 4:15 PM  | 0:15  | 0:05  | Mitochondrial Energy Metabolism in the Diabetic Heart and Skeletal Muscle  
Kieran Clarke, PhD  

4:15 PM - 4:35 PM  | 0:15  | 0:05  | Mitochondria from Cradle to Grave  
Roberta Gottlieb, MD  

4:35 PM - 4:50 PM  | 0:10  | 0:05  | Oral Poster Presentation 3  

4:50 PM - 5:00 PM  | 0:10  | 0:05  | Scientific Poster Award Presentation  

7:00 PM - 9:00 PM  | 2:00  | 0:00  | Banquet Dinner - Hyatt Bethesda Grand Ballroom  

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Mitochondrial Biology in Cardiovascular Health and Diseases Conference  

October 7, 2008  

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<tr>
<th>Start Time</th>
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<th>Presentation Title</th>
<th>Chair</th>
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<tr>
<td>8:00 AM</td>
<td>8:15 AM</td>
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<td>0:00</td>
<td>Day Two Welcome</td>
<td>Robert S. Balaban, PhD</td>
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Session 5  

8:15 AM - 8:35 AM  | 0:15  | 0:05  | Metabolic Basis of Hypertrophic Cardiomyopathy  
Hugh Watkins, MD, PhD  

8:35 AM - 8:55 AM  | 0:15  | 0:05  | Mitochondrial Dynamics in Development and Disease  
David C. Chan, MD, PhD  

8:55 AM - 9:15 AM  | 0:15  | 0:05  | Mitochondria-Targeted Antioxidants as Potential Therapies  
Michael P. Murphy, PhD  

9:15 AM - 9:30 AM  | 0:10  | 0:05  | Oral Poster Presentation 4  

9:30 AM - 9:55 AM  | 0:25  | 0:00  | Day Two Welcome  

Session 6  

9:55 AM - 10:15 AM  | 0:15  | 0:05  | The Role of Insulin Signaling in Mitochondrial Dysfunction  
Evan Dale Abel, MD, PhD  

10:15 AM - 10:35 AM  | 0:15  | 0:05  | Mitochondrial Dysfunction and Type 2 Diabetes  
Gerald I. Shulman, MD, PhD  

10:35 AM - 10:55 AM  | 0:15  | 0:05  | Role of Skeletal Muscle in Human Energy Metabolism  
Kong Y. Chen, PhD  

Session 7  

Mitochondrial Function in Cardiovascular Disease-Ischemia, Hypertrophy and Heart Failure  
Chair: Elizabeth C. Murphy, PhD
<table>
<thead>
<tr>
<th>Time</th>
<th>Duration</th>
<th>Session Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>10:55 AM</td>
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<td>Connexin 43 in Mitochondria: Functional Importance</td>
<td>Rainer Schulz, MD</td>
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<td>11:15 AM</td>
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<td>Molecular Identity of the Mitochondrial Permeability Transition Pore</td>
<td>Christopher P. Baines, PhD</td>
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<tr>
<td>11:35 AM</td>
<td>0:15</td>
<td>Cardioprotection and Altered Mitochondrial Transport</td>
<td>Charles J. Steenbergen, Jr., MD, PhD</td>
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<td>11:55 AM</td>
<td>1:30</td>
<td>Lunch/Attended Poster Session</td>
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<tr>
<td>1:25 PM</td>
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<td>Mitochondrial Function and Energy Metabolism in Heart Failure</td>
<td>Rong Tian, MD, PhD</td>
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<td>1:45 PM</td>
<td>0:15</td>
<td>The Modulation of Mitochondrial Respiration by Nitrite During Ischemia/Reperfusion</td>
<td>Sruti Shiva, PhD</td>
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<td>2:05 PM</td>
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<td>The Mitochondria as a Therapeutic Target in Cardiovascular Disease</td>
<td>Heinrich Taegtmeyer, MD, PhD</td>
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<td>2:25 PM</td>
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<td>Inhibition of GSK-3β in Cardioprotection</td>
<td>Steven J. Sollott, MD</td>
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<td>2:45 PM</td>
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<td>Genes and Small Molecules That Slow Aging-Effects on Cardiovascular Disease</td>
<td>David A. Sinclair, PhD</td>
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<td>3:05 PM</td>
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<td>Break</td>
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<tr>
<td>3:30 PM</td>
<td>0:15</td>
<td>Targeting Malonyl CoA Inhibition of Mitochondrial Fatty and Uptake as an Approach to Treat Cardiac Ischemia</td>
<td>Gary D. Lopaschuk, PhD</td>
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<tr>
<td>3:50 PM</td>
<td>0:15</td>
<td>Pre and Postconditioning:- from laboratory bench to hospital bedside</td>
<td>Derek M. Yellon PhD, DSc</td>
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<tr>
<td>4:10 PM</td>
<td>0:15</td>
<td>Novel Therapies for Mitochondrial Pathology in Heart Failure</td>
<td>William C. Stanley, PhD</td>
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<tr>
<td>4:30 PM</td>
<td></td>
<td>Closing Remarks</td>
<td>Michael N. Sack, MD, PhD</td>
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