DONALD S. FREDRICKSON CONFERENCE ON FAMILIAL LIPOPROTEIN DISORDERS

April 29, 2018

LAS VEGAS

IN CONJUNCTION WITH NATIONAL LIPID ASSOCIATION SCIENTIFIC SESSIONS
Donald S. Fredrickson Conference on Familial Lipoprotein Disorders

1953 -- Clinical Associate NHI
1961 -- Clinical Director NHI

Molecular Disease Laboratory

1966 - Molecular Disease Branch

1968 - Director of the NHLBI

1974 – Director of the NIH

1981 - Director of the Howard Hughes Foundation
Brought Lipoproteins to the Clinic

- Described high flux of FFA in energy transport (R. Gordon)

- Described Tangier Disease

- Converted /Gofman UC analysis to a system for clinical laboratory use.

- Described phenotyping system for common clinical elevations of plasma lipoproteins.
Five Types of lipoprotein elevations:

<table>
<thead>
<tr>
<th>Phenotype</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Phenotype I</td>
<td>Chylomicrons</td>
</tr>
<tr>
<td>Phenotype II</td>
<td>LDL</td>
</tr>
<tr>
<td>Phenotype III</td>
<td>Remnants</td>
</tr>
<tr>
<td>Phenotype IV</td>
<td>VLDL</td>
</tr>
<tr>
<td>Phenotype V</td>
<td>• VLDL/chylomicrons</td>
</tr>
</tbody>
</table>

- Familial but genetic factors were involved. (Mendelian and complex)
AGENDA

• **Keynote Address:**
  Using Genetic Analysis to Improve Patient Management
  Ernst J. Schaefer, MD

• **Case presentations and discussion.**
  11:55 – 12:20:  Case 1. Tendon Xanthomata and Neurological Dysfunction
  Presented by: Andrew S. Geller
  Discussed by: P. Barton Duell, MD

  12:20-1:10P Case 2. Pancreatitis in a 28 Year-Old Woman
  Presented by: Vadzim Chyzhyk, MD

  Case 3. Pancreatitis in a 43 Year-Old Man
  Presented by: Andrew S. Geller
  Discussed by: Alan S. Brown, MD, Daniel Gaudet, MD PhD Ira J. Goldberg, MD

  1:10 -1:25: BREAK
AGENDA

• Case presentations and discussion.

1:25 - 1:50P Case 4. Planar Xanthomata in a 13 Year-Old Boy
Presented by: Andrew S. Geller
Discussed by: Ernst J. Schaefer, MD

1:50 – 2:15 P Case 5. Aortic Atherosclerosis and Liver Disease in a 13 Year-Old Boy
Presented by: James J. Maciejko, MS PhD
Discussed by: Gregory Grabowski, MD

2:15 – 2:40 P Case 6. Low LDL-C, Central Obesity and Steatohepatitis
Presented by: Savitha Subramanian, MD
Discussed by: Abhimanyu Garg, MD

2:40 – 3:00 P Closing Remarks and Adjournment