# Diabetes Research Retreat

**Oklahoma History Center**  
**October 13, 2007**  
**8:00 a.m. – 5:00 p.m.**

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<th>Time</th>
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| 8:00 – 8:30 AM| **Registration**  
Continental Breakfast  
Poster Setup |
| 8:30 – 8:45 AM| **Welcome**  
Timothy J. Lyons, MD  
*Warren Chair of Diabetes*  
*Professor & Chief, Section of Endocrinology & Diabetes*  
*University of Oklahoma College of Medicine Sales* |
| 8:45 – 9:05 AM| **Alterations in Glucose & Oxygen Induce Inducible Factor and Target Genes: Implications for Diabetic Neuropathy & Retinopathy**  
Steven B. Foster, PhD  
*Associate Research Scientist*  
*Free Radical Biology & Aging Research Program*  
*Oklahoma Medical Research Foundation* |
| 9:05 – 9:25 AM| **Nitrite as an Endogenous Vasodilator in Diabetic Patients: Does Myoglobin Play a Role in Nitric Oxide Production?**  
George Richter-Addo, PhD  
*Professor & Chair*  
*Departments of Chemistry & Biochemistry*  
*University of Oklahoma* |
| 9:25 – 9:45 AM| **Enhanced Tyrosine Nitration of Prostacyclin Synthase is Associated with Increased Inflammation in Atherosclerotic Carotid Arteries from Type II Human Diabetes**  
Zhonglin Xie, MD, PhD  
*Assistant Professor*  
*Department of Medicine, Endocrinology*  
*University of Oklahoma Heath Sciences Center* |
| 9:45 – 10:05 AM| **RCBTB1 is a Ubiquitin System Component that Modulates Ubiquitylation of the Angiotensin Receptor**  
Scott Plafker, PhD  
*Assistant Professor*  
*Department of Cell Biology*  
*University of Oklahoma Heath Sciences Center* |
<p>| 10:05 – 10:25 AM| <strong>Break</strong> |</p>
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<th>Time</th>
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<th>Author(s)</th>
<th>Institution(s)</th>
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| 10:25 – 10:45 AM | Hyperglycemia Decreases the Actin-Regulated Retinal Insulin Kinase Activity | Raju V.S. Rajala, PhD  
Assistant Professor  
Departments of Ophthalmology & Cell Biology  
Dean A. McGee Eye Institute |                                                                                       |
| 10:45 – 11:05 AM | Increased Serum Pigment Epithelium Derived Factor is Associated with Microvascular Complications, Vascular Stiffness, and Inflammation in Type I Diabetes | Sarah X. Zhang, MD  
Assistant Professor  
Department of Medicine, Endocrinology  
University of Oklahoma Health Sciences Center |                                                                                       |
| 11:05 – 11:25 AM | Natural Product Protectants Against IAPP Toxicity                   | Robert H. Cichewicz, II, PhD  
Natural Products Discovery Group  
Departments of Chemistry & Biochemistry  
University of Oklahoma |                                                                                       |
| 11:25 – 11:45 AM | A Social Ecology Model for American Indian Diabetes Health Disparity Research | J. Niel Henderson, PhD  
Director, Oklahoma Center for American Indian Diabetes Health Disparity Research  
College of Public Health  
University of Oklahoma Health Sciences Center |                                                                                       |
| 11:45 – 12:05 PM | Historical, Social, & Generational Factors in American Indian Diabetes | L. Carson Henderson, PhD, MPH  
Assistant Professor of Research  
Project Coordinator, Oklahoma Center for American Indian Diabetes Health Disparity Research  
College of Public Health  
University of Oklahoma Health Sciences Center |                                                                                       |
| 12:05 – 1:30 PM | Lunch & Poster Session                                              | Judging of posters                                                                                       |                                                                                       |
| 1:30 – 1:50 PM  | Autoantibody Activation of Beta 1/2 Adrenergic and M2 Muscarinic Receptors in Diabetic Cardiomyopathy | Stavros Stavrakis, MD  
Associate Professor  
Resident  
Department of Internal Medicine  
University of Oklahoma Health Sciences Center |                                                                                       |
| 1:50 – 2:10 PM  | Genetic & Environmental Contributions to Type II Diabetes in Oklahoma American Indians | Diane M. Warren, PhD  
Assistant Professor  
Department of Anthropology  
University of Oklahoma |                                                                                       |
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<th>Time</th>
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<td>2:10 – 2:30 PM</td>
<td>Intra-retinal Leakage and Oxidation of LDL in Diabetic Retinopathy</td>
<td>Mingyuan Wu, MD, PhD&lt;br&gt;Post-Doctoral Fellow&lt;br&gt;Department of Medicine, Endocrinology&lt;br&gt;University of Oklahoma Health Sciences Center</td>
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<td>2:30 – 2:50 PM</td>
<td>Application of Information-Technology in the Management of Patients with Diabetes Mellitus</td>
<td>Ann F. Chou, PhD, MPH&lt;br&gt;Assistant Professor, Health Administration &amp; Policy&lt;br&gt;University of Oklahoma Health Sciences Center</td>
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<td>2:50 – 3:10 PM</td>
<td>Arterial Elasticity and Physical Activity in Normal Weight and Overweight Pubertal Children</td>
<td>Laura J. Chalmers, MD&lt;br&gt;Fellow&lt;br&gt;Departments of Internal Medicine &amp; Pediatrics&lt;br&gt;University of Oklahoma Health Sciences Center</td>
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<td>3:10 – 3:30 PM</td>
<td>Break</td>
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<td>3:30 – 4:30 PM</td>
<td>Bone Marrow Derived Cells for Vascular Repair in Diabetes</td>
<td>Maria A. Grant, M.D.&lt;br&gt;Professor of Medicine, Pharmacology &amp; Therapeutics&lt;br&gt;University of Florida</td>
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<td>Turn in Evaluations</td>
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<td>4:30 – 5:00 PM</td>
<td>Awards for Winning Posters</td>
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<td>Closing Remarks</td>
<td>Timothy J. Lyons, MD&lt;br&gt;Jian-Xing Ma, MD, PhD</td>
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