<table>
<thead>
<tr>
<th>DATE</th>
<th>TITLE</th>
<th>PRINCIPAL INVESTIGATOR</th>
<th>SPONSORING INSTITUTION</th>
<th>SUMMARY RESULTS</th>
<th>STATUS</th>
<th>NUMBER OF SUBJECTS</th>
</tr>
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<tbody>
<tr>
<td>2011-2012</td>
<td>Evaluation of a Novel Optically Active Garment with Celliant Fiber on TCPO2 Levels In Healthy Subjects</td>
<td>Dr. Matt Beekley / Dr. Michael Coyle / Dr. Jim Brown</td>
<td>University of Indianapolis Human Performance Laboratory</td>
<td>Pending</td>
<td>Undergoing Data Analysis</td>
<td>100</td>
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<td>2012</td>
<td>Effect of Celliant Materials on Pain and Strength with Chronic Elbow and Wrist Pain</td>
<td>Dr. Ian Gordon</td>
<td>University of CA, Irvine Long Beach Veteran’s Affairs Medical Center</td>
<td>Pending</td>
<td>In Clinical Testing</td>
<td>80</td>
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<td>2011</td>
<td>Influence of Celliant on Athlete Performance &amp; Recovery</td>
<td>Dr. Darren Stefanyshyn / Dr. Jay Worobets</td>
<td>University of Calgary Human Performance Laboratory</td>
<td>Subjects used less oxygen to accomplish the same amount of work. This increases both the performance and efficiency of athletes.</td>
<td>Pending Publication</td>
<td>12</td>
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<td>2008-2011</td>
<td>Double blind, placebo controlled, crossover trial on the effect of Optically Modified Polyethylene Terephthalate Fiber mattress covers on sleep disturbances in patients with chronic back pain</td>
<td>Dr. Marcel Hungs / Dr. Annabel Wang</td>
<td>University of CA, Irvine Medical Center, Orange CA</td>
<td>Nighttime awakenings, sleep quality, and sleep efficiency improved. Findings significant enough to expand study.</td>
<td>Undergoing Data Analysis</td>
<td>12</td>
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<td>2009</td>
<td>Effect of Garment with 42% Celliant™ fiber on TCP02 Levels and Grip Strength in Healthy Subjects</td>
<td>Dr. Ian Gordon</td>
<td>University of CA, Irvine Long Beach Veteran’s Affairs Medical Center</td>
<td>An average TCPO2 gain of 7% and an average gain in grip strength of 12%.</td>
<td>Abstract</td>
<td>51</td>
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<tr>
<td>2009</td>
<td>Effect of Optically Modified Polyethylene Terephthalate Fiber Socks on Chronic Foot Pain</td>
<td>Dr. Ian Gordon / Dr. Robyn York</td>
<td>University of CA, Irvine Medical Center, Orange CA</td>
<td>Statistically significant reduction of pain and improved comfort for subjects.</td>
<td>Published</td>
<td>55</td>
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<tr>
<td>2005</td>
<td>Celliant Study of Thirteen (13) Healthy Subjects</td>
<td>Dr. Graham McClue</td>
<td>University of Texas A&amp;M Houston, Texas</td>
<td>An average increase in TCPO2 levels from 10% to 24%.</td>
<td>Abstract</td>
<td>13</td>
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</tbody>
</table>
## Abstract

### Improving Blood Flow with Celliant in the Hands and Feet of High-Risk Diabetics

Dr. Lawrence Lavery  
Loyola University Chicago, Chicago, IL  

An average increase in TCPO2 levels from 12% in the hands and 8% in the feet.

#### DATE  TITLE  PRINCIPAL INVESTIGATOR  SPONSORING INSTITUTION  SUMMARY RESULTS  STATUS  NUMBER OF SUBJECTS

2003  Improving Blood Flow with Celliant in the Hands and Feet of High-Risk Diabetics  Dr. Lawrence Lavery  Loyola University Chicago, Chicago, IL  An average increase in TCPO2 levels from 12% in the hands and 8% in the feet.  Abstract  20

### The Sleep Effects of a Mattress Cover Made with Optically Vaso-Active Fibers

Dr. Lawrence Lavery  
University of Texas Southwestern Medical Center at Dallas  

#### DATE  TITLE  PRINCIPAL INVESTIGATOR  SPONSORING INSTITUTION  SUMMARY RESULTS  STATUS  NUMBER OF SUBJECTS

2012  The Sleep Effects of a Mattress Cover Made with Optically Vaso-Active Fibers  Dr. Lawrence Lavery  University of Texas Southwestern Medical Center at Dallas  Pending  In Design  TBD

### Effects of Celliant on Foot Neuropathy

Dr. Mark Warren  
Florida Atlantic University  

#### DATE  TITLE  PRINCIPAL INVESTIGATOR  SPONSORING INSTITUTION  SUMMARY RESULTS  STATUS  NUMBER OF SUBJECTS

2012  Effects of Celliant on Foot Neuropathy  Dr. Mark Warren  Florida Atlantic University  Pending  In Design  TBD

### The Use of Quantum Dots as a Biomarker for Increased Circulation

Dr. Shimon Weiss  
UCLA dept. of Chemistry and Biochemistry  

#### DATE  TITLE  PRINCIPAL INVESTIGATOR  SPONSORING INSTITUTION  SUMMARY RESULTS  STATUS  NUMBER OF SUBJECTS

2012  The Use of Quantum Dots as a Biomarker for Increased Circulation  Dr. Shimon Weiss  UCLA dept. of Chemistry and Biochemistry  Pending  In Design  TBD