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<th><strong>COMPLIANCE MATCHING VASCULAR STENTS</strong></th>
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**Contact**  
Pedro “Peter” Hernández  
Director, Technology Management and Commercialization  
11200 SW 8th St., MARC 440  
Miami, FL 33199  
Tel: 305-348-0008  
Fax: 305-348-0081  
E-mail: pedro.hernandez7@fiu.edu

**Inventors**  
- Joel L. Berry, Ph.D.  
- James E. Moore, Ph.D.

**Patents Filed**  
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**Product and Technology**  
Researchers at Wake Forest University Health Sciences (WFUHS) and Florida International University have developed a new paradigm in vascular stents: **stents that match the flexibility of blood vessels**. This is important because traditional, balloon-expandable and self-expandable stents cause excessive non-physiologic mechanical stress and hemodynamic shear stress at the transition between the stented and unstented region. This stress (think bending a paperclip back-and-forth) is harmful to the vessel and may have a role in thickening of the vessel wall and potentially restenosis.

These **compliance matching stents (CMS)** have been tested in a pig model with good results and have been the subject of extensive computer modeling. The CMS technology may be applied to existing bare-metal stents to improve their properties or may be used to obtain incremental improvements to a drug-eluting stent.