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For Immediate Release

**BIOHEART ANNOUNCES FIRST PATIENTS SUCCESSFULLY
ENROLLED AND TREATED IN ANGEL TRIAL**

Sunrise, FL – May 31th, 2013 - Bioheart, Inc. (BHRT.OB) announced today that they have successfully enrolled and treated the first patients in the ANGEL Trial. The trial which is fully funded by Bioheart is being conducted in Mexico at the Hospital Angeles with the Regenerative Medicine Institute (RMI). This phase I ANGEL study will provide necessary safety and preliminary efficacy of adipose derived stem cells in patients with congestive heart failure.

Kristin Comella, Bioheart’s Chief Science Officer said “This trial will provide important data for the field. We are thrilled to see brisk enrollment in the trial. Clearly there is a need for better therapies for this patient population and cell therapy offers a promising option.”

About Bioheart, Inc.

Bioheart is committed to maintaining its leading position within the cardiovascular sector of the cell technology industry delivering cell therapies and biologics that help address congestive heart failure, lower limb ischemia, chronic heart ischemia, acute myocardial infarctions and other issues. Bioheart’s goals are to cause damaged tissue to be

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regenerated, when possible, and to improve a patient's quality of life and reduce health care costs and hospitalizations.

Specific to biotechnology, Bioheart is focused on the discovery, development and, subject to regulatory approval, commercialization of autologous cell therapies for the treatment of chronic and acute heart damage and peripheral vascular disease. Its leading product, MyoCell, is a clinical muscle-derived cell therapy designed to populate regions of scar tissue within a patient's heart with new living cells for the purpose of improving cardiac function in chronic heart failure patients. For more information on Bioheart, visit www.bioheartinc.com, or visit us on Facebook: Bioheart and Twitter @BioheartInc.

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Forward-Looking Statements: Except for historical matters contained herein, statements made in this press release are forward-looking statements. Without limiting the generality of the foregoing, words such as "may," "will," "to," "plan," "expect," "believe," "anticipate," "intend," "could," "would," "estimate," or "continue" or the negative other variations thereof or comparable terminology are intended to identify forward-looking statements.

Forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Also, forward-looking statements represent our management's beliefs and assumptions only as of the date hereof. Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons actual results could differ materially from those anticipated in these forward-looking statements, even if new information becomes available in the future.

The Company is subject to the risks and uncertainties described in its filings with the Securities and Exchange Commission, including the section entitled "Risk Factors" in its Annual Report on Form 10-K for the year ended December 31, 2012, and its Quarterly Report on Form 10-Q for the quarter ended March 31, 2013.