

February 4, 2013



**Amarantus**  
BioScience

## **Amarantus BioScience Reports Statistical Significance Achieved for MANF Striatal Reinnervation in Neurorestoration Animal Model of Parkinson's Disease**

SUNNYVALE, Calif., Feb. 4, 2013 /PRNewswire/ -- Amarantus BioScience, Inc. (OTCQB: AMBS), a biotechnology company discovering and developing treatments and diagnostics for diseases associated with neurodegeneration and apoptosis centered around its patented therapeutic protein MANF, today reported that upon further analysis of the [data reported on January 9th, 2013](#), the striatal reinnervation (densitometry) data produced in the 6 hydroxydopamine (6-OHDA) neurorestoration rat model of Parkinson's disease for MANF at 36ug achieved a statistically significant improvement over the data produced for GDNF, with a P value of 0.047.

"The statistical significance uncovered from our in-depth analysis underscores the challenges of evaluating dosing regimens for MANF in standard unilateral rodent models of Parkinson's disease due to MANF's unique ability to reinnervate the striatum," said Dr. John W. Commissiong, Chief Scientist at Amarantus. "We have been cautious in reporting this first of its kind data thus far, and intend to update the marketplace regarding certain aspects of our further analysis as we move forward. The Company is now preparing to initiate IND-enabling studies."

The Company has retained a Swiss neuroscience-focused consulting firm to conduct a full audit of the data derived from these experiments and assist the Company in planning for its IND package. The Company will be reporting additional rodent data in the first quarter on a 6-OHDA neuroprotection rat model of Parkinson's disease where both MANF and GDNF were delivered to the substantia nigra. The final report for all rodent experiments will be made public in the second quarter following completion of the data audit.

### **About Mesencephalic-Astrocyte-derived Neurotrophic Factor (MANF)**

MANF (Mesencephalic-Astrocyte-derived Neurotrophic Factor) is a protein that corrects protein misfolding, one of the major causes of apoptosis (Programmed Cell Death). Mesencephalic-Astrocyte-derived Neurotrophic Factor (MANF) is believed to have broad potential because it is a naturally-occurring protein produced by the body for the purpose of reducing and preventing apoptosis (in response to injury or disease), via the unfolded protein response. By manufacturing MANF and administering it to the body, Amarantus is seeking to use a regenerative medicine approach to assist the body with higher quantities of MANF when needed. Amarantus is the front-runner and primary holder of intellectual property (IP) around MANF, and is initially focusing on the development of MANF-based protein therapeutics. MANF's current lead indication is Parkinson's disease with additional focus on

Traumatic Brain Injury (TBI). Future indications may include myocardial infarction and certain rare and ultra-rare orphan diseases where MANF is currently being evaluated.

The Company also owns an inventory of 88 cell lines referred to as "PhenoGuard Cell Lines." MANF was the first therapeutic protein discovered from a PhenoGuard Cell Line, and it is anticipated that additional therapeutic proteins useful for various therapeutic approaches to the Central Nervous System will be identified from the Company's inventory of PhenoGuard Cell Lines.

### **About Amarantus BioScience, Inc.**

Amarantus BioScience, Inc. is a development-stage biotechnology company founded in January 2008. The Company has a focus on developing certain biologics surrounding the intellectual property and proprietary technologies it owns to treat and/or diagnose Parkinson's disease, Traumatic Brain Injury and other human diseases. The Company owns the intellectual property rights to a therapeutic protein known as Mesencephalic-Astrocyte-derived Neurotrophic Factor ("MANF") and is developing MANF-based products as treatments for brain disorders. The Company also is a Founding Member of the Coalition for Concussion Treatment (#C4CT), a movement initiated in collaboration with Brewer Sports International seeking to raise awareness of new treatments in development for concussions and nervous-system disorders. For further information please visit [www.Amarantus.com](http://www.Amarantus.com).

### **Forward Looking Statements**

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Such statements include, but are not limited to, statements about the possible benefits of MANF therapeutic applications and/or advantages presented by Amarantus' PhenoGuard technology, as well as statements about expectations, plans and prospects of the development of Amarantus' new product candidates. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including the risks that the anticipated benefits of the therapeutic drug candidates or discovery platforms, as well as the risks, uncertainties and assumptions relating to the development of Amarantus' new product candidates, including those identified under "Risk Factors" in Amarantus' most recently filed Annual Report on Form 10-K and Quarterly Report on Form 10-Q and in other filings Amarantus periodically makes with the SEC. Actual results may differ materially from those contemplated by these forward-looking statements Amarantus does not undertake to update any of these forward-looking statements to reflect a change in its views or events or circumstances that occur after the date of this presentation.

### **MEDIA CONTACTS**

**Amarantus Bioscience, Inc.**

[pr@amarantus.com](mailto:pr@amarantus.com)

#### **Investor/Media Contact:**

IR Sense, LLC

Remy Bernarda

(408) 737-2734 x109

[remy@irsense.com](mailto:remy@irsense.com)

SOURCE Amaranthus BioScience, Inc.