

Navidea Announces Data Presentations at 2013 Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging (SNMMI)

− Fourteen presentations highlight results from Lymphoseek® and NAV4694 clinical trials −

DUBLIN, Ohio--(BUSINESS WIRE)-- Navidea Biopharmaceuticals, Inc. (NYSE MKT: NAVB), a biopharmaceutical company focused on precision diagnostic radiopharmaceuticals, today announced that data from its Lymphoseek (technetium Tc 99m tilmanocept) Injection and NAV4694 studies are being presented at the 2013 Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging (SNMMI) to be held June 8-12, 2013 in Vancouver, Canada. In addition to the ten oral and poster presentations highlighting both the comparative performance of Lymphoseek against commonly-used non-receptor targeted colloidal materials as well as the results demonstrating the efficacy of lymphatic mapping in breast, melanoma and head and neck cancers, there will also be four oral and poster presentations focused on Navidea's β -amyloid PET imaging agent, NAV4694, that will reveal performance and comparative results from clinical studies in Alzheimer's disease.

"We are honored to have these data showcased at the world's premier educational and networking event for molecular imaging and nuclear medicine. These peer-reviewed presentations represent the growing body of clinical experience supporting both our recently launched lymphatic mapping agent, Lymphoseek, and the potential of NAV4694 as a diagnostic aid in Alzheimer's disease and cognitive impairment," said Dr. Mark Pykett, CEO of Navidea. "We are proud to have what we believe is the deepest late-stage radiopharmaceutical pipeline in the industry and remain committed to developing precision diagnostics that help identify the presence and status of disease enabling better diagnostic accuracy, clinical decision-making and ultimately patient care."

Notable data from Navidea and its collaborators being presented at SNMMI 2013 include:

Lymphoseek (tilmanocept)

Presentation 99m Tc]Tilmanocept identifies more positive nodes using fewer sentinel lymph nodes compared to [99mTc] sulfur

Title: colloid in early stage breast cancer patients

Author: Jennifer Baker, MD, Surgery, University of California San Diego et al

Poster Title: Receptor-seeking near-infrared radiopharmaceutical IRDye800CW - tilmanocept for multi-modality sentinel lymph

node imaging

Author: Zhengtao Qin, PhD, Department of Chemistry, University of California San Diego et al

Presentation Comparison of key sentinel node biopsy parameters for 99mTc-tilmanocept (TcTM) and 99mTc-sulfur colloid (TcSC)

Title: in breast cancer

Author: Stephen Povoski, MD, Ohio State University Wexner Medical Center et al

Presentation Intraoperative lymphatic mapping efficacy of 99mTc-tilmanocept (TcTM) does not change over time post-injection

Title: relative to time of surgery

Author: James O'Donnell, MD, Case Western University Hospitals et al

Poster Title: Comparison of key sentinel node biopsy parameters for 99mTc-tilmanocept and 99mTc-sulfur colloid in melanoma

Author: Vernon Sondak, MD, H. Lee Moffitt Cancer Center et al.

Poster Title: Dynamic SPECT/CT quantification of sentinel lymph node uptake & injection site clearance (ISC): Pilot study in

intraoperative lymphatic mapping for breast cancer

Author: Nathan C. Hall, MD PhD, The Ohio State University et al

Poster Title: Bone marrow time-activity curves of [68Ga]-tilmanocept exhibit molar dose-dependency

Author: Carl Hoh, MD, Radiology, University of California San Diego et al.

Presentation
Title:

Sentinel lymph node mapping via fluorescence imaging of a multi-modal receptor-binding probe

Author: David Vera, PhD, UCSD and UCSD InVivo Cancer and Molecular Imaging et al

Presentation

Title: Dynamics of 99mTc-tilmanocept in intraoperative lymphatic mapping

Author: Frederick Cope, PhD, Navidea Biopharmaceuticals, Inc. et al.

Presentation Comparison of false negative rate (FNR) & overall accuracy (AC) of sentinel lymph node biopsy (SLNB) in phase 3

99mTc-tilmanocept (TcTM) vs ACOSOG Z-0360 99mTc-sulfur colloid (TcSC) in head/neck squamous cell cancer

(SCC)

Author: Francisco J. Civantos, MD, FACS, University of Miami Cancer Center et al

NAV4694

Title:

Emerging Technologies Session: Neurodegenerative Imaging

Presentation

Title: NAV4694: A PET Biomarker for Brain Amyloid

Author: Connie Reininger, MD, PhD, Navidea Biopharmaceuticals, Inc.

Presentation

Title: Visual and semiquantitative validation of early and late Aβ imaging approaches using 18F-NAV4694

Author: Christopher Rowe, PhD, Centre for PET, Austin Health, Melbourne, Australia et al.

Poster Title: White matter segmentation analyses for assessing cortical SUVr in Alzheimer's using the novel PET amyloid tracer

18F NAV4694

Author: John Seibyl, MD, Institute for Neurodegenerative Disorders et al

Poster Title: Effect of ligand mass dose on binding of the β-amyloid specific radioligand [18F]AZD4694 (NAV4694)

Author: Zsolt Cselényi, PhD, Karolinska Institutet, AstraZeneca Translational Science Center et al

Full session details, data presentation listings and abstracts at SNMMI can be found through the Annual Meeting website at http://interactive.snm.org/index.cfm?pageID=12252.

About Lymphoseek®

Lymphoseek[®] (technetium Tc 99m tilmanocept) Injection is a novel, receptor-targeted, small-molecule radiopharmaceutical used in lymphatic mapping procedures that are performed to help in the diagnostic evaluation of potential cancer spread for patients with breast cancer and melanoma. Lymphoseek is designed to identify the lymph nodes that

drain from a primary tumor, which have the highest probability of harboring cancer. Lymphoseek was approved by the U.S. Food and Drug Administration in March, 2013 for use in lymphatic mapping to assist in the localization of lymph nodes draining a primary tumor in patients with breast cancer or melanoma. The Company anticipates continuing development of Lymphoseek into other solid tumor areas that may include head and neck cancers, prostate cancer, thyroid cancer, lung/bronchus cancers, colorectal cancer and others.

Accurate diagnostic evaluation of cancer is critical, as it guides therapy decisions and determines patient prognosis and risk of recurrence. According to the American Cancer Society, approximately 232,000 new cases of breast cancer, 77,000 new cases of melanoma and 67,000 new cases of head and neck/oral cancer are expected to be diagnosed in the United States in 2013.

About NAV4694

NAV4694 is a Fluorine-18 labeled precision radiopharmaceutical candidate intended for use in Positron Emission Tomography (PET) imaging and evaluation of patients with signs or symptoms of cognitive impairment such as Alzheimer's disease (AD). NAV4694 binds to β-Amyloid deposits in the brain that can then be imaged in scans. β-Amyloid plaque pathology is widely used in the diagnosis of AD. The ability of NAV4694 imaging to display amyloid plaque pathology may enable earlier identification of AD and improve monitoring of disease progression and interpretation of brain scan images. Navidea plans for a Phase 3 trial of NAV4694 to begin in 2013.

AD is a progressive and fatal neurodegenerative disease. β-Amyloid imaging has the potential to play an increasingly important role in clinical practice as revised criteria for the diagnosis of probable AD allow for earlier diagnosis and therapeutic intervention. Alzheimer's Disease International estimated in 2010 that there were 36 million people living with all forms of dementia including AD.

About Navidea Biopharmaceuticals, Inc.

Navidea Biopharmaceuticals, Inc. (NYSE MKT: NAVB) is a biopharmaceutical company focused on the development and commercialization of precision diagnostics and radiopharmaceutical agents. Navidea is actively developing four radiopharmaceutical agent platforms – Lymphoseek[®], NAV4694, NAV5001 and RIGScanTM – to help identify the sites and pathways of undetected disease and enable better diagnostic accuracy, clinical decision-making and, ultimately, patient care. Navidea's strategy is to deliver superior growth and shareholder return by bringing to market novel radiopharmaceutical agents and advancing the Company's pipeline through selective acquisitions, global partnering and commercialization efforts. For more information, please visit www.navidea.com.

The Private Securities Litigation Reform Act of 1995 (the Act) provides a safe harbor for forward-looking statements made by or on behalf of the Company. Statements in this news release, which relate to other than strictly historical facts, such as statements about the Company's plans and strategies, expectations for future financial performance, new and existing products and technologies, anticipated clinical and regulatory pathways, and markets for the Company's products are forward-looking statements within the meaning of the Act. The words "believe," "expect," "anticipate," "estimate," "project," and similar

expressions identify forward-looking statements that speak only as of the date hereof. Investors are cautioned that such statements involve risks and uncertainties that could cause actual results to differ materially from historical or anticipated results due to many factors including, but not limited to, the Company's continuing operating losses, uncertainty of market acceptance of its products, reliance on third party manufacturers, accumulated deficit, future capital needs, uncertainty of capital funding, dependence on limited product line and distribution channels, competition, limited marketing and manufacturing experience, risks of development of new products, regulatory risks and other risks detailed in the Company's most recent Annual Report on Form 10-K and other Securities and Exchange Commission filings. The Company undertakes no obligation to publicly update or revise any forward-looking statements.

Navidea Biopharmaceuticals Brent Larson, 614-822-2330 Executive VP & CFO or Stern Investor Relations, Inc. Beth DelGiacco, 212-362-1200

Source: Navidea Biopharmaceuticals, Inc.