Karyopharm Therapeutics Announces Nine Presentations on its Selective Inhibitors of Nuclear Export (SINE) Compounds and PAK4 Inhibitors at the American Association of Cancer Research (AACR) Meeting

NATICK, Mass., Feb. 26, 2014 (GLOBE NEWSWIRE) -- Karyopharm Therapeutics Inc. (Nasdaq:KPTI), a clinical-stage pharmaceutical company focused on the discovery and development of novel first-in-class drugs directed against nuclear transport targets for the treatment of cancer and other major diseases, today announced the presentation of seven posters covering its Selective Inhibitors of Nuclear Export (SINE) compounds and two posters covering its PAK4 inhibitors at the American Association of Cancer Research (AACR) meeting being held April 5-9, 2014 in San Diego, CA. Karyopharm's lead drug candidate, Selinexor (KPT-330), is a first-in-class, oral SINE compound that is undergoing Phase 1 studies in patients with advanced hematologic malignancies, solid tumors, and sarcomas. Karyopharm's allosteric PAK4 inhibitors are in preclinical development.

Karyopharm's founder, president and Chief Scientific Officer Dr. Sharon Shacham commented, "At this AACR meeting, we are fortunate enough to share the results of our ongoing collaborative and internal work on the mechanisms of action and broad anti-tumor activity of SINE compounds for the treatment of a variety of malignant conditions. We believe that these data strengthen the foundations for our Phase 1 clinical development program in adults with either solid tumors or hematologic malignancies, and support the future combination of SINE compounds with other forms of cancer therapy."

The AACR presentations are being made by Karyopharm scientists and academic collaborators studying the effects of Karyopharm's SINE compounds and PAK4 modulators alone and in combination in various cancers:

Selinexor, Verdinexor and other SINE Compounds

Mitochondrial Priming of New Targeted Agents in Acute Myeloid Leukemia(Ishizawa, J.)

- Date and Time: Sunday, April 6, 2014 1:00 - 5:00 PM
- Session Title: Bcl-2 Family and Mitochondrial Pathway of Apoptosis
- Location: Hall A-E, Poster Section 15, Poster Board 11

Overcoming Drug-Resistance in Multiple Myeloma by CRM1 Inhibitor Combination Therapy(Turner, J.)

- Date and Time: Monday, April 7, 2014 8:00 AM - 12:00 PM
- Session Title: New Targets and Agents 1
- Location: Hall A-E, Poster Section 32, Poster Board 15

Selective Nuclear Export Inhibitor KPT-330 Enhances the Antitumor Activity of Gemcitabine in Human Pancreatic Cancer (Kazim, S.)

- Date and Time: Monday, April 7, 2014 8:00 AM - 12:00 PM
- Session Title: Combination Therapy to Overcome Resistance
- Location: Hall A-E, Poster Section 29, Poster Board 21

Evaluation of the Novel, Orally Bioavailable Selective Inhibitor of Nuclear Export (SINE) KPT-335 (Verdinexor) in Spontaneous Canine Cancer: Results of Phase I and Phase II Clinical Trials (London, C.)

- Date and Time: Tuesday, April 8, 2014 8:00 AM - 12:00 PM
- Session Title: Transcription Factors and Nuclear Targets
- Location: Hall A-E, Poster Section 35, Poster Board 9

Selinexor (KPT-330), a Novel Selective Inhibitor of Nuclear Export (SINE), Shows Single Agent Efficacy Against Alveolar Soft Part Sarcoma (ASPS) In Vivo(Crochiere, M.)

- Date and Time: Tuesday, April 8, 2014 8:00 AM - 12:00 PM
- Session Title: Transcription Factors and Nuclear Targets
- Location: Hall A-E, Poster Section 35, Poster Board 10

Preclinical Efficacy of the Novel, Oral Selective Inhibitor of Nuclear Export (SINE) Selinexor (KPT-330) on Castration Resistant Prostate Cancer (Maity, S.)

- Date and Time: Tuesday, April 8, 2014 8:00 AM - 12:00 PM
- Session Title: Transcription Factors and Nuclear Targets
- Location: Hall A-E, Poster Section 35, Poster Board 8

Novel activity of selective inhibitors of nuclear export in epithelial-to-mesenchymal transition models(Azmi, A.)

- Date and Time: Tuesday, April 8, 2014 8:00 AM - 12:00 PM
- Session Title: Late-Breaking Research: Tumor Biology 4
- Location: Hall A-E, Poster Section 40

PAK4 Inhibitors

Novel Small Molecule PAK4 Allosteric Modulators with Activity Against Pancreatic Cancer(Azmi, A.)

- Date and Time: Monday, April 7, 2014 8:00 AM - 12:00 PM
- Session Title: Experimental and Molecular Therapeutics 13
- Location: Hall A-E, Poster Section 32, Poster Board 14

Novel Selective Orally Bioavailable Small Molecule PAK4 Allosteric Modulators Display Antitumor Activity and Induce Apoptosis In Vitro *and* In Vivo(Senapedis, W.)

- Date and Time: Sunday, April 6, 2014 1:00 - 5:00 PM
- Session Title: Kinase Inhibitors 1
- Location: Hall A-E, Poster Section 31, Poster Board 21

About Selinexor

Selinexor (KPT-330) is a first-in-class, oral Selective Inhibitor of Nuclear Export (SINE) compound that is undergoing Phase 1 studies in patients with advanced hematologic malignancies (NCT01607892), solid tumors (NCT01607905), and sarcomas (NCT01896505). Selinexor functions by binding with the nuclear export protein XPO1 (also called CRM1), leading to the accumulation of tumor suppressor proteins in the cell nucleus, which subsequently reinitiates and amplifies their tumor suppressor function. This is believed to lead to the selective induction of apoptosis in cancer cells, while largely sparing normal cells. A new animal drug application (NADA) for Karyopharm's related oral SINE XPO1 antagonist Verdinexor (KPT-335) has been submitted to the FDA for approval in dogs with newly diagnosed or relapsed non-Hodgkin's lymphomas.

About Karyopharm

Karyopharm Therapeutics Inc. (Nasdaq:KPTI) is a clinical-stage pharmaceutical company focused on the discovery and development of novel first-in-class drugs directed against nuclear transport targets for the treatment of cancer and other major diseases. Karyopharm's SINE compounds function by binding with the XPO1, which prevents the export of various proteins out of the nucleus. SINE compounds have shown biological activity in models of cancer, autoimmune disease, certain viruses, and wound-healing. Karyopharm was founded by Dr. Sharon Shacham and is located in Natick, Massachusetts.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Such forward-looking statements include those regarding the therapeutic potential of and potential clinical development plans for Karyopharm's PAK4 inhibitors and SINE compounds, including the timing of initiation of certain trials and of the reporting of data from such trials. Such statements are subject to numerous important factors, risks and uncertainties that may cause actual events or results to differ materially from the company's current expectations. For example, there can be no guarantee that any of Karyopharm's SINE compounds, including Selinexor (KPT-330), or any other drug candidate, including PAK4 inhibitors, that Karyopharm is developing will successfully complete necessary preclinical and clinical development phases or that development of any of Karyopharm's drug candidates will continue. Further, there can be no guarantee that any positive developments in Karyopharm's drug candidate portfolio will result in stock price appreciation. Management's expectations and, therefore, any forward-looking statements in this press release could also be affected by risks and uncertainties relating to a number of other factors, including the following: Karyopharm's results of clinical trials and preclinical studies, including subsequent analysis of existing data and new data received from ongoing and future studies; the content and timing of decisions made by the U.S. Food and Drug Administration and other regulatory authorities, investigational review boards at clinical trial sites and publication review bodies; Karyopharm's ability to obtain and maintain requisite regulatory approvals and to enroll patients in its clinical trials; unplanned cash requirements and expenditures; development of drug candidates by Karyopharm's competitors for diseases in which Karyopharm is currently developing its drug candidates; and Karyopharm's ability to obtain, maintain and enforce patent and other intellectual property protection for any drug candidates it is

developing. These and other risks are described under the caption "Risk Factors" in Karyopharm's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013, which is on file with the Securities and Exchange Commission (SEC), and in other filings that Karyopharm may make with the SEC in the future. Any forward-looking statements contained in this press release speak only as of the date hereof, and Karyopharm expressly disclaims any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise.

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