Karyopharm's Founder, Sharon Shacham, PhD, Selected as a Finalist for the EY Entrepreneur Of The Year® 2020 Award

– Dr. Shacham Recognized for Her Contributions to Science and Inspiring Others with Her Vision, Leadership and Achievement

NEWTON, Mass., Aug. 21, 2020 /PRNewswire/ -- Karyopharm Therapeutics Inc. (Nasdaq:KPTI), a commercial-stage pharmaceutical company pioneering novel cancer therapies, congratulates its founder, President and Chief Scientific Officer, Sharon Shacham, PhD, MBA, for being selected as a finalist in the EY Entrepreneur of the Year 2020 New England Awards Program. For more than 30 years, this award has served as one of the world's most prestigious business awards recognizing entrepreneurs who have disrupted industries, created new product categories and successfully brought innovations that have transformed our world. Dr. Shacham was recognized for her scientific research that led to the development and FDA approval of XPOVIO® (selinexor), as well as for leading Karyopharm from its inception to what is now a global pharmaceutical company focused on the discovery, development, and commercialization of novel medicines for patients with cancer and other major diseases.

"Not only is Dr. Shacham a renowned expert in the biologic mechanisms of cancer and a pioneer in advancing important medical innovations, but she is a true business leader who inspires those around her to achieve extraordinary results," said Michael G. Kauffman, MD, PhD, Chief Executive Officer of Karyopharm. "Under her scientific leadership, we have built a robust research and development organization since our founding in 2008 and have the only nuclear export inhibitor approved in the U.S. This award recognizes the importance of her entrepreneurial spirit and the vital role her leadership and persistence have played in bringing new treatment options to patients battling cancer and other serious diseases."

Dr. Shacham stated, "It's an honor to be named a finalist for the EY Entrepreneur Of The Year® award and I am thrilled to be recognized among the 2020 class of visionary finalists in New England. As we all face unprecedented challenges in our current environment, I think we need entrepreneurs now, more than ever, to help encourage others and solve society's problems often thought to be insurmountable. I sincerely hope the work we are doing at Karyopharm will not only enable improved clinical outcomes for patients but that we can continue to inspire those around us to set and achieve aspirational goals that will benefit as many people as possible."

The Entrepreneur Of The Year® is the world's most prestigious business awards program for unstoppable entrepreneurs. These visionary leaders deliver innovation, growth and prosperity that transform our world. The program engages entrepreneurs with insights and experiences that foster growth. It connects them with their peers to strengthen entrepreneurship around the world. For more information please visit https://www.ey.com/en_us/entrepreneur-of-the-year/new-england/overview.

About Sharon Shacham, PhD, MBA

Dr. Shacham founded Karyopharm in 2008 and has served as our Chief Scientific Officer and President of Research and Development since December 2012. From 2010 to 2012, Dr. Shacham served as our Chief Scientific Officer and Head of Research and Development, and prior to that, as our President and Chief Executive Officer. Dr. Shacham has led our scientific progress since inception.

Prior to joining Karyopharm, Dr. Shacham served as Senior Vice President of Drug Development at Epix Pharmaceuticals, Inc., and Director, Algorithm and Software Development at Predix Pharmaceuticals Inc., which merged into Epix Pharmaceuticals in 2006, and where she led the company's efforts in GPCR modeling, computational chemistry, lead optimization and development of clinical trials.

Dr. Shacham holds a Bachelor of Science in Chemistry, along with a Doctor of Philosophy in Biophysical Chemistry and a Master of Business of Administration from Tel Aviv University.

About XPOVIO® (selinexor)

XPOVIO is a first-in-class, oral Selective Inhibitor of Nuclear Export (SINE) compound. XPOVIO functions by selectively binding to and inhibiting the nuclear export protein exportin 1 (XPO1, also called CRM1). XPOVIO blocks the nuclear export of tumor suppressor, growth regulatory and anti-inflammatory proteins, leading to accumulation of these proteins in the nucleus and enhancing their anti-cancer activity in the cell. The forced nuclear retention of these proteins can counteract a multitude of the oncogenic pathways that, unchecked, allow cancer cells with severe DNA damage to continue to grow and divide in an unrestrained fashion. Karyopharm received accelerated U.S. Food and Drug Administration (FDA) approval of XPOVIO in July 2019 in combination with dexamethasone for the treatment of adult patients with relapsed refractory multiple myeloma (RRMM) who have received at least four prior therapies and whose disease is refractory to at least two proteasome inhibitors, at least two immunomodulatory agents, and an anti-CD38 monoclonal antibody. Karyopharm has also submitted a Marketing

Authorization Application (MAA) to the European Medicines Agency (EMA) with a request for conditional approval of selinexor in this same RRMM indication. Karyopharm's supplemental New Drug Application (sNDA) requesting an expansion of its current indication to include the treatment for patients with multiple myeloma after at least one prior line of therapy has been accepted for filing by the FDA. In June 2020, Karyopharm received accelerated FDA approval of XPOVIO for its second indication in adult patients with relapsed or refractory diffuse large B-cell lymphoma (DLBCL), not otherwise specified, including DLBCL arising from follicular lymphoma, after at least 2 lines of systemic therapy. Selinexor is also being evaluated in several other mid-and later-phase clinical trials across multiple cancer indications, including as a potential backbone therapy in combination with approved myeloma therapies (STOMP), in liposarcoma (SEAL) and in endometrial cancer (SIENDO), among others. Additional Phase 1, Phase 2 and Phase 3 studies are ongoing or currently planned, including multiple studies in combination with approved therapies in a variety of tumor types to further inform Karyopharm's clinical development priorities for selinexor. Additional clinical trial information for selinexor is available at www.clinicaltrials.gov.

About Karyopharm Therapeutics

Karyopharm Therapeutics Inc. (Nasdaq: KPTI) is a commercial-stage pharmaceutical company pioneering novel cancer therapies and dedicated to the discovery, development, and commercialization of novel first-in-class drugs directed against nuclear export and related targets for the treatment of cancer and other major diseases. Karyopharm's Selective Inhibitor of Nuclear Export (SINE) compounds function by binding with and inhibiting the nuclear export protein XPO1 (or CRM1). Karyopharm's lead compound, XPOVIO® (selinexor), received accelerated approval from the U.S. Food and Drug Administration (FDA) in July 2019 in combination with dexamethasone as a treatment for patients with heavily pretreated multiple myeloma. In June 2020, XPOVIO was approved by the FDA as a treatment for patients with relapsed or refractory diffuse large B-cell lymphoma. A Marketing Authorization Application for selinexor for patients with heavily pretreated multiple myeloma is also currently under review by the European Medicines Agency. In addition to single-agent and combination activity against a variety of human cancers, SINE compounds have also shown biological activity in models of neurodegeneration, inflammation, autoimmune disease, certain viruses and wound-healing. Karyopharm has several investigational programs in clinical or preclinical development. For more information, please visit **www.karyopharm.com.**

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 Karyopharm's expectations and plans relating to the global development and commercialization of XPOVIO. Such statements are subject to numerous important factors, risks and uncertainties, many of which are beyond Karyopharm's control, that may cause actual events or results to differ materially from Karyopharm's current expectations. For example, there can be no guarantee that Karyopharm will successfully commercialize XPOVIO; that regulators will agree that selinexor qualifies for conditional approval in the E.U. as a result of data from the STORM study or confirmatory approval in the U.S. or EU based on the BOSTON study in patients with relapsed or refractory multiple myeloma; or that any of Karyopharm's drug candidates, including selinexor, will successfully complete necessary 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 the development or commercialization of 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: the risk that the COVID-19 pandemic could disrupt Karyopharm's business more severely than it currently anticipates, including by negatively impacting sales of XPOVIO, interrupting or delaying research and development efforts, impacting the ability to procure sufficient supply for the development and commercialization of selinexor or other product candidates, delaying ongoing or planned clinical trials, impeding the execution of business plans, planned regulatory milestones and timelines, or inconveniencing patients; the adoption of XPOVIO in the commercial marketplace, the timing and costs involved in commercializing XPOVIO or any of Karyopharm's drug candidates that receive regulatory approval; the ability to retain regulatory approval of XPOVIO or any of Karyopharm's drug candidates that receive regulatory approval; 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, including with respect to the need for additional clinical studies; the ability of Karyopharm or its third party collaborators or successors in interest to fully perform their respective obligations under the applicable agreement and the potential future financial implications of such agreement; 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 June 30, 2020, which was filed with the Securities and Exchange Commission (SEC) on August 4, 2020, 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, except as required by law, 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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