March 31, 2021

Actinium to Participate in the Cell & Gene Meeting on the Mediterranean

- Actinium to highlight Iomab-ACT program for targeted conditioning for CAR-T, adoptive cell therapies, and gene therapies

- Iomab-ACT intended to displace non-targeted chemotherapy based conditioning regimens

NEW YORK, March 31, 2021 /PRNewswire/ --**Actinium Pharmaceuticals, Inc.** (NYSE AMERICAN: ATNM) ("Actinium" or the "Company") today announced that it will be participating in the Cell & Gene Meeting on the Mediterranean, which is being held virtually April 6 – 9, 2021, where it will feature its Iomab-ACT program. Iomab-ACT is an extension of Actinium's lead program, Iomab-B, which is being studied in a pivotal Phase 3 trial for targeted myeloablative conditioning prior to a bone marrow transplant. Iomab-ACT uses a lower dose of radiation, intended to achieve lymphodepletion for CAR-T and other adoptive cell therapies or reduced intensity conditioning for gene therapies.

Iomab-ACT is being utilized in a clinical collaboration with Memorial Sloan Kettering Cancer Center ("MSK") for targeted conditioning with MSK's CD19 targeting CAR T-cell therapy 19-28z for patients with relapsed or refractory B-cell acute lymphoblastic leukemia. Actinium and MSK were jointly awarded National Institutes of Health Small Business Technology Transfer grant funding for this first ever trial to evaluate ARC-based targeted conditioning prior to CAR-T therapy. In addition, Actinium is collaborating with University California, Davis to use Iomab-ACT for targeted conditioning with UC Davis' anti-HIV stem cell gene therapy for patients with HIV-related lymphoma.

Conference participants interested in meeting with Actinium can do so through the partneringONE™ system https://informaconnect.com/cell-gene-meeting-on-the-mediterranean/pone/login/ or by contacting Eileen Geoghegan, Ph.D., Associate Director, Strategic Research & Business Development by email at egeoghegan@actiniumpharma.com.

About the Cell & Gene Meeting on the Mediterranean

The Cell & Gene Meeting on the Mediterranean is the leading conference bringing together

the entire cell and gene therapy community from Europe and beyond. Covering a wide range of commercialization topics from market access and regulatory issues to manufacturing and financing the sector, this program features expert-led panels, extensive one-on-one partnering capabilities, exclusive networking opportunities, and 50+ dedicated presentations by leading publicly traded and privately held companies in the space.

About Iomab-ACT

Iomab-ACT targets cells that express CD45, an antigen found on immune cells such as lymphocytes and macrophages as well as leukemia and lymphoma cancer cells and delivers the radioisotope warhead iodine-131 to achieve cell depletion. Iomab-ACT is intended to deplete CD45+ immune cells such as macrophages that are implicated in CAR-T related toxicities and may also have an anti-tumor effect on chemo-refractory cancers. Iomab-ACT is a low dose extension of Actinium's lead program, Iomab-B, which is being studied in a pivotal Phase 3 trial for targeted conditioning prior to a bone marrow transplant. Preclinical data supporting Iomab-ACT's application in targeted lymphodepletion prior to ACT such as CAR-T was recently published in the journal Oncotarget (https://www.oncotarget.com/archive/v11/i39/).

In addition, clinical data with trace doses of Iomab-B has shown transient, reversible lymphodepletion in patients and drug clearance pharmacokinetics that fit within the vein-to-vein time of CAR-T manufacturing and administration.

About Actinium Pharmaceuticals, Inc. (NYSE: ATNM)

Actinium Pharmaceuticals, Inc. is a clinical-stage biopharmaceutical company developing ARCs or Antibody Radiation-Conjugates, which combine the targeting ability of antibodies with the cell killing ability of radiation. Actinium's lead application for our ARCs is targeted conditioning, which is intended to selectively deplete a patient's disease or cancer cells and certain immune cells prior to a BMT or Bone Marrow Transplant, Gene Therapy or Adoptive Cell Therapy (ACT) such as CAR-T to enable engraftment of these transplanted cells with minimal toxicities. With our ARC approach, we seek to improve patient outcomes and access to these potentially curative treatments by eliminating or reducing the non-targeted chemotherapy that is used for conditioning in standard practice currently. Our lead product candidate, I-131 apamistamab (Iomab-B) is being studied in the ongoing pivotal Phase 3 Study of Iomab-B in Elderly Relapsed or Refractory Acute Myeloid Leukemia (SIERRA) trial for BMT conditioning. The SIERRA trial is over seventy-five percent enrolled and positive single-agent, feasibility and safety data has been highlighted at ASH, TCT, ASCO and SOHO annual meetings. Iomab-ACT (low dose I-131 apamistamab) is also be studied as a targeted conditioning agent in a Phase 1 study with a CD19 CAR T-cell Therapy with Memorial Sloan Kettering Cancer Center and is intended to be studied for conditioning prior to gene therapy. In addition, we are developing a multi-disease, multi-target pipeline of clinical-stage ARCs targeting the antigens CD45 and CD33 for targeted conditioning and as a therapeutic either in combination with other therapeutic modalities or as a single agent for patients with a broad range of hematologic malignancies including acute myeloid leukemia, myelodysplastic syndrome and multiple myeloma. Ongoing combination trials include our CD33 alpha ARC, Actimab-A, in combination with the salvage chemotherapy CLAG-M and the Bcl-2 targeted therapy venetoclax. Underpinning our clinical programs is our proprietary AWE (Antibody Warhead Enabling) technology platform. This is where our intellectual property portfolio of over 140 patents, know-how, collective research and expertise in the

field are being leveraged to construct and study novel ARCs and ARC combinations to bolster our pipeline for strategic purposes. Our AWE technology platform is currently being utilized in a collaborative research partnership with Astellas Pharma, Inc.
Website: https://www.actiniumpharma.com/

Forward-Looking Statements for Actinium Pharmaceuticals, Inc.

This press release may contain projections or other "forward-looking statements" within the meaning of the "safe-harbor" provisions of the private securities litigation reform act of 1995 regarding future events or the future financial performance of the Company which the Company undertakes no obligation to update. These statements are based on management's current expectations and are subject to risks and uncertainties that may cause actual results to differ materially from the anticipated or estimated future results, including the risks and uncertainties associated with preliminary study results varying from final results, estimates of potential markets for drugs under development, clinical trials, actions by the FDA and other governmental agencies, regulatory clearances, responses to regulatory matters, the market demand for and acceptance of Actinium's products and services, performance of clinical research organizations and other risks detailed from time to time in Actinium's filings with the Securities and Exchange Commission (the "SEC"), including without limitation its most recent annual report on form 10-K, subsequent quarterly reports on Forms 10-Q and Forms 8-K, each as amended and supplemented from time to time.

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