March 19, 2025

Actinium Pharmaceuticals to Host Investor KOL Call with Dr. Ehab Atallah of the Medical College of Wisconsin and Provide a Pipeline Update Highlighting Revamped Clinical Programs and Expanded Market Opportunities for Actimab-A and Iomab-ACT with Clinical Data in 2H:2025

- Actinium to highlight 3 separate multi-billion-dollar market opportunities for Actimab-A and Iomab-ACT in myeloid malignancies, solid tumors and cell & gene therapy conditioning

- Clinical proof of concept data expected in 2H:2025 from Actimab-A combination with blockbuster immunotherapies KEYTRUDA® and OPDIVO® in solid tumor indications

- Actimab-A expanded into frontline AML in triplet combination with Venetoclax and ASTX-727, Taiho Oncology's hypomethylating agent, under NCI CRADA with initial clinical data expected by year-end 2025

- Planned pivotal Phase 2/3 trial for Actimab-A + CLAG-M in relapsed/refractory AML patients further supported by recent publication of results in peer-reviewed journal Leukemia reporting 18.4 median overall survival

- Iomab-ACT commercial CAR-T trial to initiate patient enrollment with clinical proof of concept data expected in 2H:2025; Iomab-ACT sickle cell disease trial expected to initiate in 1H:2025

- Call Scheduled for 8:00 AM ET on Tuesday, March 25, 2025

NEW YORK, March 19, 2025 /PRNewswire/ -- **Actinium Pharmaceuticals, Inc.** (NYSE AMERICAN: ATNM) (Actinium or the Company), a pioneer in the development of targeted radiotherapies, today announced that it will host a KOL call that will feature Dr. Ehab Atallah, Professor of Medicine at the Medical College of Wisconsin and principal investigator of the Actimab-A + CLAG-M combination trial in patients with relapsed/refractory acute myeloid leukemia (r/r AML). Dr. Atallah will discuss Actimab-A clinical results to date including recently published long-term survival outcomes and the planned pivotal Phase 2/3 clinical trial in r/r AML and trials to be conducted under Actinium's cooperative research and development agreement (CRADA) with the National Cancer Institute (NCI). In addition, Actinium will provide a pipeline update to highlight 3 separate potential multi-billion-dollar blockbuster market opportunities for its targeted radiotherapies including the following:

- Actimab-A as a mutation agnostic, backbone therapy for myeloid malignancies including AML and myelodysplastic syndromes (MDS) across multiple treatment settings
- Actimab-A as a pan solid tumor therapy in combination with PD-1 inhibitors including KEYTRUDA and OPDIVO by depleting myeloid derived suppressor cells (MDSCs)
- Iomab-ACT as a universal targeted conditioning agent to increase patients access to cell & gene therapies and improve patient outcomes

To register for the KOL Call & Pipeline Update please use the following link:

https://lifescievents.com/event/actinium-2/

Sandesh Seth, Actinium's Chairman and CEO, said, "We have made significant progress across our pipeline in the first quarter of 2025 achieving several important milestones. We are excited to highlight the large multi-billion-dollar market opportunities for Actimab-A in myeloid malignancies and now solid tumors, as well as cell and gene therapy conditioning with Iomab-ACT. With cash runway into 2027, we are in an excellent position to advance our programs, and we are excited to deliver validating data in the second half of 2025."

About Actinium Pharmaceuticals, Inc.

Actinium is a pioneer in the development of targeted radiotherapies intended to meaningfully improve patient outcomes. Actinium is advancing its lead product candidate Actimab-A, a CD33 targeting therapeutic, as potential backbone therapy in acute myeloid leukemia (AML) and other myeloid malignancies leveraging the mutation agnostic alpha-emitter radioisotope payload Actinium-225 (Ac-225). Actimab-A has demonstrated potential activity in relapsed and refractory acute myeloid leukemia (r/r AML) patients in combination with the chemotherapy CLAG-M including high rates of Complete Remissions (CR) and measurable residual disease (MRD) negativity leading to improved survival outcomes and is being advanced to a pivotal Phase 2/3 trial. In addition, Actinium is engaged with the National Cancer Institute (NCI) under the Cooperative Research and Development Agreement (CRADA) for development of Actimab-A in AML and other myeloid malignancies. The first clinical trial under the CRADA will evaluate the triplet combination comprised of Actimab-A, Venetoclax (Abbvie/Roche) an oral Bcl-2 inhibitor and ASTX-727 (Taiho Oncology, an Otsuka holdings company) a novel oral hypomethylating agent (HMA) in frontline acute myeloid leukemia (AML) patients. Additionally, Actinium is developing Actimab-A as a potential pan tumor therapy in combination with PD-1 checkpoint inhibitors including KEYTRUDA® and OPDIVO® by depleting myeloid derived suppressor cells (MDSCs), which represents a potential multi-billion-dollar addressable market. Iomab-ACT, Actinium's next generation conditioning candidate, is being developed with the goal of improving patient access and outcomes for potentially curative cell and gene therapies. Iomab-B is an induction and conditioning agent prior to bone marrow transplant in patients with r/r AML, which Actinium is seeking a potential strategic partner for in the U.S. In addition, the

company's R&D efforts are primarily focused on advancing several preclinical programs for solid tumor indications. Actinium holds 230 patents and patent applications including several patents related to the manufacture of the isotope Ac-225 in a cyclotron.

For more information, please visit: https://www.actiniumpharma.com/

Forward-Looking Statements

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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