Spectrum Pharmaceuticals Highlights Preclinical Data of ROLONTIS™ (eflapegrastim) at the American Association for Cancer Research (AACR) Annual Meeting

- ROLONTIS is currently in a pivotal clinical development program and is on track for Spectrum to file BLA next year.
- Eflapegrastim was more potent than pegfilgrastim at G-CSF equivalent doses in this neutropenic rat model.

HENDERSON, Nev--(BUSINESS WIRE)-- Spectrum Pharmaceuticals (NasdaqGS: SPPI), a biotechnology company with fully integrated commercial and drug development operations with a primary focus in Hematology and Oncology, announced the presentation of preclinical data of ROLONTIS from a poster presentation session at the American Association for Cancer Research (AACR) Annual Meeting.

“We are excited to see positive data continuing to develop in our highest priority program,” said Rajesh C. Shrotriya, MD, Chairman and Chief Executive Officer of Spectrum Pharmaceuticals. “The data shows that in this preclinical study eflapegrastim was found to be more potent in shortening the duration of severe neutropenia. Eflapegrastim was more potent than pegfilgrastim at G-CSF equivalent doses in neutropenic animal models. We are currently enrolling patients in our pivotal trial and continue to expect a BLA filing next year.”

Abstract #1347: In vivo efficacy of eflapegrastim in rats with chemotherapy-induced neutropenia

In this study, rats were treated with 50 mg/kg of cyclophosphamide (CPA) intraperitoneally to induce neutropenia. Pegfilgrastim was administered subcutaneously as a single dose of 100 µg/kg on Day 1 and filgrastim was administered subcutaneously at a dose of 20 µg/kg daily for five days on Days 1 to 5. Eflapegrastim was administered subcutaneously as a single dose on Day 1, at doses ranging from 32 µg/kg to 322 µg/kg (or 8.8 µg/kg to 88 µg/kg as G-CSF equivalent). Blood samples were collected for 8 days after drug administration for the measurement of neutrophil counts and the Duration of Severe Neutropenia (DSN).

Results showed the DSN in neutropenic rats treated with eflapegrastim was compared with the DSN in neutropenic rats treated with pegfilgrastim or filgrastim. The DSN was 0.2 days when eflapegrastim was administered as a single dose at 88 µg/kg (as G-CSF equivalent) 24 hours after administering CPA. In contrast, the DSN was 3.04 days with filgrastim administered at a dose of 20 µg/kg for 5 days from Day 1 to Day 5 and 2.8 days with pegfilgrastim administered as a single dose of 100 µg/kg 24 hours after administering CPA. At the lowest eflapegrastim dose of 8.8 µg/kg that was about 1/10 of G-CSF equivalent dose for pegfilgrastim, the DSN in eflapegrastim-treated rats was 2.94 days. Thus, eflapegrastim was found to be more potent in shortening the DSN with a lower G-CSF equivalent dose when compared to either pegfilgrastim or filgrastim.

About Spectrum Pharmaceuticals, Inc.

Spectrum Pharmaceuticals is a leading biotechnology company focused on acquiring, developing, and commercializing drug products, with a primary focus in Hematology and Oncology. Spectrum currently markets six hematology/oncology drugs, and has an advanced stage pipeline that has the potential to transform the Company. Spectrum's strong track record for in-licensing and acquiring differentiated drugs, and expertise in clinical development have generated a robust, diversified, and growing pipeline of product candidates in advanced-stage Phase 2 and Phase 3 studies. More information on Spectrum is available at www.sppirx.com.

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possibility that our existing and new applications to the FDA and other regulatory agencies may not receive approval in a timely manner or at all, the possibility that our existing and new drug candidates, if approved, may not be more effective, safer or more cost efficient than competing drugs, the possibility that our efforts to acquire or in-license and develop additional drug candidates may fail, our dependence on third parties for clinical trials, manufacturing, distribution and quality control and other risks that are described in further detail in the Company's reports filed with the Securities and Exchange Commission. The Company does not plan to update any such forward-looking statements and expressly disclaims any duty to update the information contained in this press release except as required by law.

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