



Spectrum Pharmaceuticals Presents Results in HER2 Exon 20 Insertion Mutations from Cohort 2 of the Pozitotinib ZENITH20 Clinical Trial

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HENDERSON, Nev.--(BUSINESS WIRE)--Sep. 18, 2020-- Spectrum Pharmaceuticals (NasdaqGS: SPPI), a biopharmaceutical company focused on novel and targeted oncology therapies, today presented additional results from its pivotal Phase 2 clinical trial, ZENITH20, evaluating pozitotinib in previously treated non-small cell lung cancer (NSCLC) patients with HER2 exon 20 insertion mutations (Cohort 2). The on-demand mini oral session is part of the European Society for Medical Oncology (ESMO) Virtual Congress 2020 Science Weekend being held September 19 – 21, 2020.

"This is the first presentation to the medical and scientific community of the positive results from our registrational Cohort 2 from the ZENITH20 clinical trial," said Francois Lebel, M.D., Chief Medical Officer of Spectrum Pharmaceuticals. "There is no approved treatment for NSCLC patients with HER2 exon 20 insertion mutations, and we look forward to sharing this data with the FDA and discussing the path forward for pozitotinib registration."

The presentation titled "ZENITH20, a multinational, multi-cohort Phase 2 study of pozitotinib in NSCLC patients with EGFR or HER2 Exon 20 mutations" is available to members of ESMO and can be accessed on the meeting website here: https://cslide.ctimeetingtech.com/esmo2020/attendee/confcal_1/session/list?q=pozitotinib&r=st%7E12. A copy of the slides can also be found at: <https://investor.sppirx.com/index.php/events-and-presentations>.

ZENITH20 Trial Design and Results for Cohort 2

Cohort 2 of the ZENITH20 trial enrolled 90 patients who received an oral once daily dose of 16 mg of pozitotinib. The intent-to-treat analysis demonstrated a confirmed objective response rate (ORR) of 27.8% (95% CI, 18.9%-38.2%). The observed lower bound of 18.9% exceeded the pre-specified lower bound of 17%. The disease control rate (DCR) was 70% while tumor reduction occurred in 67 patients (74%), with median tumor reduction of 22%. The evaluable patient analysis (n=74) demonstrated a confirmed ORR of 35.1% (95% CI, 24.4% – 47.1%) with a disease control rate of 82.4%.

The median duration of response was 5.1 months (range 1 to >12.3), with a median follow up of 8.3 months and the median progression free survival was 5.5 months (range 0 to >13.1). 13 patients (14%) had treatment-related serious adverse events and 11 patients (12%) permanently discontinued due to adverse events. Grade 3 treatment related rash was observed in 27 patients (30%) with diarrhea in 23 patients (26%). Stomatitis/mucosal inflammation Grades 3 and 4 occurred in 21 patients (23%). Dose interruptions were reported in 78 patients (87%), and dose reductions in 70 patients (78%), which was similar to the rates in Cohort 1.

Cohort 2 was designed to be a registrational study. Based on these results, Spectrum has requested a meeting with the U.S. Food and Drug Administration (FDA) to discuss the data and its plans for a New Drug Application (NDA) submission.

The ZENITH20 trial is comprised of 7 independent cohorts. Cohorts 1 - 4 are each independently powered for a pre-specified statistical hypothesis with a primary endpoint of ORR. Cohorts 5 - 7 are exploratory. In December 2019, the company reported that the primary endpoint for Cohort 1 (EGFR) was not met but clinical activity was seen. Based on the results of Cohort 1, the company has amended the protocol for ZENITH20 to explore additional twice-daily dosing regimens as well as lower single daily dosage. This amendment did not impact Cohorts 2 and 3 as these cohorts were fully enrolled. Top line results from Cohort 3 are expected by the end of the year.

About Pozitotinib

Pozitotinib is a novel, oral epidermal growth factor receptor tyrosine kinase inhibitor (EGFR TKI) that inhibits the tyrosine kinase activity of EGFR as well as HER2 and HER4. Importantly this, in turn, leads to the inhibition of the proliferation of tumor cells that overexpress these receptors. Mutations or overexpression/amplification of EGFR family receptors have been associated with a number of different cancers, including non-small cell lung cancer (NSCLC), breast cancer, and gastric cancer. The company holds an exclusive license from Hanmi Pharmaceuticals to develop, manufacture, and commercialize pozitotinib worldwide, excluding Korea and China. Pozitotinib is currently being investigated by the company and Hanmi in several mid-stage trials in multiple solid tumor indications.

About Spectrum Pharmaceuticals, Inc.

Spectrum Pharmaceuticals is a biopharmaceutical company focused on acquiring, developing, and commercializing novel and targeted oncology therapies. Spectrum has a strong track record of successfully executing across the biopharmaceutical business model, from in-licensing and acquiring differentiated drugs, clinically developing novel assets, successfully gaining regulatory approvals and commercializing in a competitive healthcare marketplace. Spectrum has a late-stage pipeline with novel assets that serve areas of unmet need. This pipeline has the potential to transform the company in the near future. For additional information on Spectrum Pharmaceuticals, please visit www.sppirx.com.

Notice Regarding Forward-Looking Statements

Certain statements in this press release may constitute "forward-looking statements" within the meaning of the United States Private Securities Litigation Reform Act of 1995, as amended to date. These forward-looking statements relate to a variety of matters, including, without limitation, statements that relate to the company's business and its future, including the significance of Cohort 2's reported results; the timing and outcome of a potential meeting with the FDA regarding pozitotinib and the FDA's determination of a path forward for pozitotinib; pozitotinib's potential to significantly advance the treatment of NSCLC patients with HER2 exon 20 insertion mutations; the timing and result of future FDA approvals; the timing of the

results of Cohort 3; the overall progression of the poziotinib development program; the company's ability to advance development of its late-stage pipeline assets and such assets' ability to serve areas of unmet need; the future potential of the company's existing drug pipeline; and other statements that are not purely statements of historical fact. These forward-looking statements are made on the basis of the current beliefs, expectations, and assumptions of the management of the company and are subject to significant risks and uncertainties that could cause actual results to differ materially from what may be expressed or implied in these forward-looking statements. Risks that could cause actual results to differ include the possibility that the different methodologies, assumptions and applications the company utilizes to assess particular safety or efficacy parameters may yield different statistical results, and even if the company believes the data collected from the clinical trials of its product candidates, including poziotinib, are positive, these data may not be sufficient to support approval by the FDA; the possibility that success in early clinical trials, especially if based on a small patient sample, might not result in success in later clinical trials, and other unforeseen events during clinical trials which could cause delays or other adverse consequences; the company's existing and new drug candidates, including poziotinib, may not prove safe or effective; the possibility that the company's 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 the company's existing and new drug candidates, including poziotinib, if approved, may not be more effective, safer or more cost efficient than competing drugs; the possibility that the company's efforts to acquire or in-license and develop additional drug candidates may fail; the company's 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. For a further discussion of risks and uncertainties that could cause actual results to differ from those expressed in these forward-looking statements, as well as risks relating to the business of the company in general, see the risk disclosures in the company's Annual Report on Form 10-K for the year ended December 31, 2019, and in subsequent reports on Forms 10-Q and 8-K and other filings made with the SEC by the company.

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