# BioLineRx Reports Regulatory Submissions of Three Phase 1b Trials for BL-8040 in Combination With Atezolizumab for Solid Tumors

June 1, 2017

TEL AVIV, Israel, June 1, 2017 /PRNewswire/ --

***- Genentech has submitted all three solid tumor trials planned underits cancer immunotherapy collaboration with BioLineRx -***

***- Studies will investigate the combination in pancreatic cancer, gastric cancer and non-small cell lung cancer (NSCLC) -***

BioLineRx Ltd. (NASDAQ: BLRX, TASE:BLRX), a clinical-stage biopharmaceutical company focused on oncology and immunology, announced today that Genentech, a member of the Roche Group, has filed a total of three regulatory submissions required to commence Phase 1b trials for BL-8040 in combination with atezolizumab (Tecentriq®), Genentech's anti-PDL1 cancer immunotherapy, for the treatment of patients with solid tumors. The trials for pancreatic, gastric and non-small cell cancer are expected to commence during the second half of 2017, after receipt of regulatory approval.

These clinical studies are part of a cancer immunotherapy collaboration between BioLineRx and Genentech to conduct several Phase 1b studies investigating BL-8040 in combination with atezolizumab in multiple cancer indications, announced in September 2016. The Phase 1b studies will evaluate the clinical response, safety and tolerability of the combination of these therapies, as well as multiple pharmacodynamic parameters.

BL-8040, BioLineRx's lead oncology platform, is a CXCR4 antagonist that has been shown in clinical trials to be a robust mobilizer of immune cells and to be effective in inducing direct tumor cell death. Additional findings in the field of immuno-oncology suggest that CXCR4 antagonists may be effective in inducing the migration of anti-tumor T cells into the tumor micro-environment, as well as improving the infiltration of T cells into solid tumors. Atezolizumab is a humanized monoclonal antibody designed to bind to PD-L1 in tumor cells and tumor infiltrating immune cells and blocks interactions with the PD-1 and B7.1 receptors. Through this interaction, atezolizumab may enable the activation of T cells, whose migration into the tumor may be enhanced by BL-8040.

Philip Serlin, Chief Executive Officer of BioLineRx, stated, "The completion of all three regulatory submissions by our partner, Genentech, for the combination studies of our CXCR4 inhibitor lead oncology platform and their anti-PD-L1 immune checkpoint inhibitor, is a testimony to the commitment on the part of both companies to advance our collaboration and establish new treatments for the potential benefit of cancer patients. This follows our recently announced regulatory filing of the same combination for the treatment of AML patients. Our clinical collaboration with Genentech is advancing on track, and we look forward to the initiation of these multiple clinical studies."

**About BL-8040**

BL-8040 is a short peptide for the treatment of acute myeloid leukemia, solid tumors, and stem cell mobilization. It functions as a high-affinity antagonist for CXCR4, a chemokine receptor that is directly involved in tumor progression, angiogenesis, metastasis and cell survival. CXCR4 is over-expressed in more than 70% of human cancers and its expression often correlates with disease severity. In a number of clinical and pre-clinical studies, BL-8040 has shown robust mobilization of cancer cells from the bone marrow, thereby sensitizing these cells to chemo- and bio-based anti-cancer therapy, as well as a direct anti-cancer effect by inducing cell death (apoptosis). In addition, BL-8040 has also demonstrated robust stem-cell mobilization, including the mobilization of colony-forming cells, T, B and NK cells. BL-8040 was licensed by BioLineRx from Biokine Therapeutics and was previously developed under the name BKT-140.

**About BioLineRx**

BioLineRx is a clinical-stage biopharmaceutical company focused on oncology and immunology. The Company in-licenses novel compounds, develops them through pre-clinical and/or clinical stages, and then partners with pharmaceutical companies for advanced clinical development and/or commercialization.

BioLineRx's leading therapeutic candidates are: BL-8040, a cancer therapy platform, which has successfully completed a Phase 2a study for relapsed/refractory acute myeloid leukemia (AML) and is in the midst of a Phase 2b study as an AML consolidation treatment and is expected to initiate a Phase 3 study in stem cell mobilization for autologous transplantation; and AGI-134, an immunotherapy treatment in development for multiple solid tumors, which is expected to initiate a first-in-man study in the first half of 2018. In addition, BioLineRx has a strategic collaboration with Novartis Pharma AG for the co-development of selected Israeli-sourced novel drug candidates; a collaboration agreement with MSD (known as Merck in the US and Canada), on the basis of which the Company has initiated a Phase 2a study in pancreatic cancer using the combination of BL-8040 and Merck's KEYTRUDA®; and a collaboration agreement with Genentech Inc., a member of the Roche Group, to investigate the combination of BL-8040 and Genentech's atezolizumab in several Phase 1b studies for multiple solid tumor indications and AML.

For additional information on BioLineRx, please visit the Company's website at http://www.biolinerx.com, where you can review the Company's SEC filings, press releases, announcements and events. BioLineRx industry updates are also regularly updated on Facebook, Twitter, and LinkedIn.

Tecentriq® is a registered trademark of Genentech, a member of the Roche Group.

*Various statements in this release concerning BioLineRx's future expectations constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. These statements include words such as "may," "expects," "anticipates," "believes," and "intends," and describe opinions about future events. These forward-looking statements involve known and unknown risks and uncertainties that may cause the actual results, performance or achievements of BioLineRx to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Some of these risks are: changes in relationships with collaborators; the impact of competitive products and technological changes; risks relating to the development of new products; and the ability to implement technological improvements. These and other factors are more fully discussed in the "Risk Factors" section of BioLineRx's most recent annual report on Form 20-F filed with the Securities and Exchange Commission on March 23, 2017. In addition, any forward-looking statements represent BioLineRx's views only as of the date of this release*

*and should not be relied upon as representing its views as of any subsequent date. BioLineRx does not assume any obligation to update any forward-looking statements unless required by law.*

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