SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 OF THE SECURITIES EXCHANGE ACT OF 1934
For the month of December 2017
BioLineRx Ltd. (Translation of registrant's name into English)
2 HaMa'ayan Street Modi'in 7177871, Israel (Address of Principal Executive Offices)
Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F:
Form 20-F ⊠ Form 40-F □
Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934:
Yes □ No ⊠

On December 5, 2017, the registrant will be hosting an investor breakfast meeting in New York City beginning at 9:00 am EST. At the meeting, the registrant will present updates about its main therapeutic candidates and corporate objectives. The presentation to be made to investors is filed as Exhibit 1 to this Report on Form 6-K

This Form 6-K, including all exhibits hereto, is hereby incorporated by reference into all effective registration statements filed by the Company under the Securities Act of 1933.

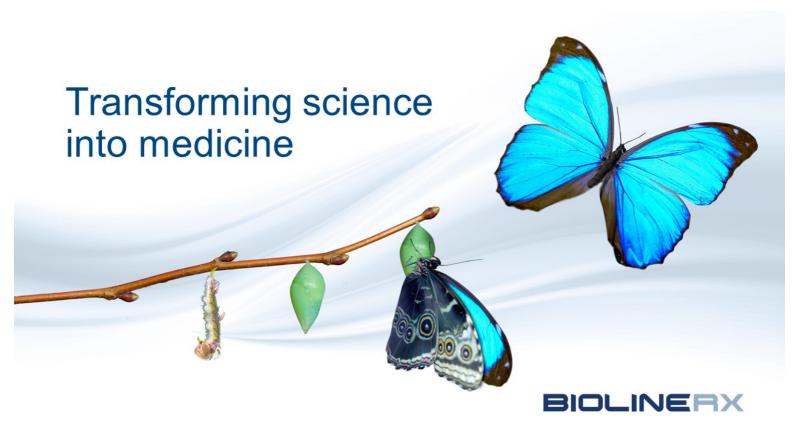
Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BioLineRx Ltd.

/s/ Philip Serlin Philip Serlin Chief Executive Officer

Dated: December 5, 2017

Exhibit 1



This presentation contains "forward-looking statements." These statements include words like "may," "expects," "believes," "plans," "scheduled," 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.





NASDAQ: BLRX

Oncology and immunology focus

Lead oncology assets:

- BL-8040
- AGI-134

Immunology franchise with **Novartis**

Significant pharma collaborations

Genentech





Attractive investment case

Strong balance sheet

\$55 million (end Q3 2017)

Significant upcoming milestones:

- Top line combination results from phase 2 COMBAT study in pancreatic cancer
- Results from initial lead-in period of phase 3 GENESIS study in SCM
- Interim analysis from phase 2b BLAST study in consolidation BIOLINERX AML

Main pipeline assets

PROJECT	INDICATION	PRE-CLINICAL	PHASE 1	PHASE 2	PHASE 3	REGULATORY APPROVAL
CANCER						
BL-8040	Stem-cell mobilization Consolidation AML	() ()		- 5		
	Maintenance AML					
	Gastric cancer Non-small cell lung cancer					Genentech
	Pancreatic cancer					
	Pancreatic cancer			<u> </u>		MSD MSD
AGI-134	Solid tumors					
MMUNOLOGY	Y					
3L-9020	Type 1 diabetes					
BL-1220	Liver failure diseases					U NOVARTIS
BL-1230	Dry eye syndrome					NOVARITS
OTHER						
BL-5010	Skin lesions					
						Perrigo







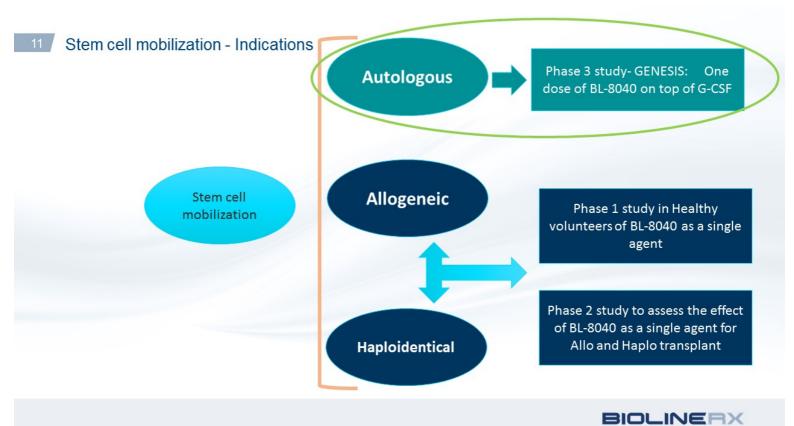
- Completed recruitment for phase 2a COMBAT study in pancreatic cancer (Merck collaboration)
- 3 phase 1b/2 studies initiated under the Genentech collaboration (pancreatic, gastric and AML)
- Reached understandings with FDA on phase 3 registrational study in autologous SCM
- Acquired highly innovative immuno-oncology asset AGI-134 via Agalimmune acquisition
- Continued long-term follow-up for phase 2a study in r/r AML reporting highly encouraging OS data
- Reported successful partial results on phase 2 study in allogeneic SCM
- Presented encouraging data at several top-tier scientific conferences
- Strengthened balance sheet and brought new leading fundamental life science investors to cap table





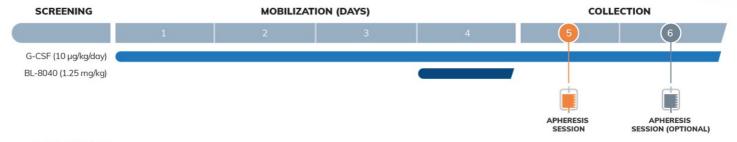






GENESIS Phase 3 - Mobilization of SC for autologous transplant in Multiple Myeloma patients

Expected to start Q4 2017 - Phase 3 randomized, placebo-controlled, safety and efficacy study (n=177): NCT03246529



Study design

Part 1: Lead in period - dose confirmation in up to 30 Multiple Myeloma patients

Part 2: Randomized placebo controlled study in combination with G-CSF in 177 Multiple Myeloma patients

BL-8040 potentially offers patients

- · Robust HSC mobilization
- · Single administration on top of SOC
- · No more than two apheresis sessions

G-CSF, granulocyte-colony stimulating factor Clinicaltrials.gov. NCT0346529



Objectives	To demonstrate that the combination of BL-8040 + G-CSF is superior to G-CSF alone in				
Primary	The ability of mobilize ≥ 6M CD34+ cells in up to 2 apheresis				
Secondary	The ability to mobilize ≥ 2M CD34+ cells in 1 apheresis				
Safety and Tolerability	Is safe and tolerable				

Other Objectives	The combination will also be tested with regard to:				
	Time to engraftment of neutrophils and platelets				
	Durability of engraftment				





BL-8040 – Solid Tumors

Mobilizing and promoting infiltration of immune cells and reducing immunosuppression in the tumor microenvironment



Despite significant advances in cancer immunotherapy, material needs remain:

- Improving the efficacy of immunotherapy in "cold" tumors, such as pancreatic cancer
- Increasing rates and durability of response to existing therapies such as anti-PD1 and anti-PDL1 antibodies

BL-8040 may address these needs by:

- Mobilization of immune cells into circulation
- Increasing immune cell infiltration into tumors
- Reducing immunosuppression in tumor microenvironment

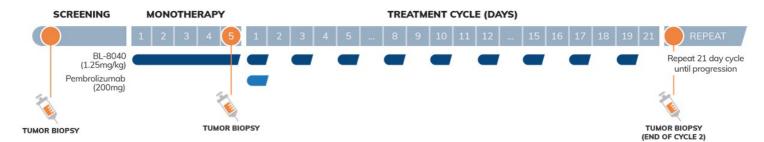


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COMBAT study: Advanced Pancreatic Cancer

Phase 2a open-label study in combination with Pembrolizumab (n=30): NCT02826484

A Phase 2a, multi-center, open-label study to assess the safety and efficacy of BL-8040 in combination with Pembrolizumab (Keytruda) in patients with advanced pancreatic cancer







17 COMBAT-Objectives

A phase 2a, multicenter, open-label study to assess the safety and efficacy of BL-8040 in combination with Pembrolizumab (Keytruda) in patients with advanced pancreatic cancer

Objectives	To demonstrate that the combination of BL-8040 and Pembrolizumab				
Primary Induces responses assessed as <u>overall response</u> (CR+PR)					
Control	Prolongs the progression free survival (PFS)				
Secondary	Prolongs the <u>overall survival</u> (OS)				
Safety and Tolerability	Is safe and tolerable				

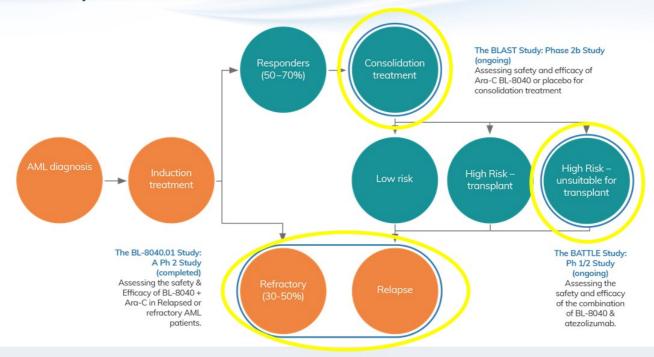
Other Objectives	Assessment of
	Disease control assessment (CR+PR+SD)
	Biomarkers for monotherapy and combination treatment
	Biopsy assessment for infiltration
	Immunophenotyping



Participating Sites and PIs

Site	City/Country	PI	Patients enrolled
Beth Israel Deaconess MC	Boston/US	M- study PI-	6
Rambam MC	Haifa/Israel	aum	5
Tel Aviv Sourasky MC	Tel Aviv/Israel	nt Geva	4
Sheba MC	Ramat Gan/ Israe	Talia Golan	4
Rabin MC	Petach Tik	Solomon Shtemer	4
Dana Farber Cancer Institute	Boe CO	Brian Wolpin	4
Washington University of St Louis	N	Katrina Pedersen	2
Honor Health Research Institute	nizona/US	Erkut Borazanci	3
Samsung MC	Ramat Gan/ Israel Petach Tike Boe OS Inizona/US Seoul/ South Korea Arizona/US	Joon Oh Park	2
Mayo Clinics	Arizona/US	Mitesh Borad/ Ramesh Ramanathan	2
Ochsner MC	New Orleans/LA	Robert Ramirez	1
Massachusetts General Hospital	Boston/US	David Ryan	0
Baylor Charles A. Sammons Cancer Center	Dallas/US	Carlos Becerra	

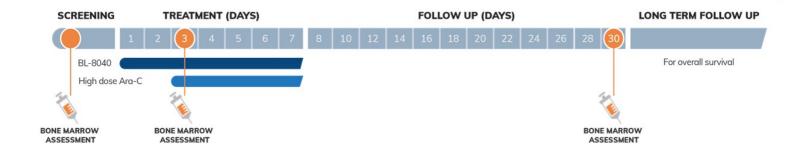






Study BL-8040.01: Encouraging results in patients with relapsed/refractory AML

Phase 1/2a dose escalation/expansion study (n=42): NCT01838395



Study design

Dose escalation (0.5 to 2.0 mg/kg) with expansion cohort at 1.5 mg/kg $\,$

CR, complete response; CRi, complete response with incomplete hematological recovery; AML, Acute Myeloid Leukemia



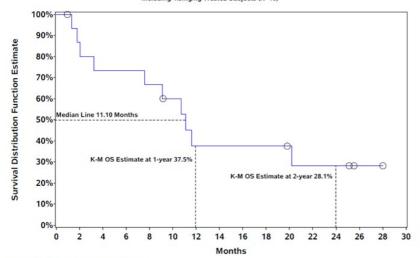
Population	Relapsed or refractory AML patients including patients after allogeneic transplantation				
Primary Endpoint	Safety and Tolerability BL-8040 was found to be safe and well tolerated in combination with high dose cytarabine				
Secondary endpoint	Composite Response rate of 38% in subjects receiving BL-8040 dose ≥1.0 mg/kg (n=39), compared to 16.3 % with cytarabine according to historical data*				
Fundamental de sint	BL-8040 was found to be pro-apoptotic as a single agent				
Exploratory endpoint	BI-8040 was found to mobilize blasts to the peripheral blood				

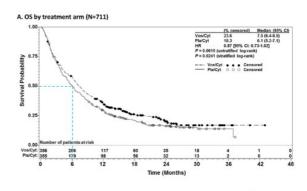
^{*}VALOR Study, Ravandi et al.



BL-8040.01- Overall Survival in R/R AML patients treated with BL-8040 +HiDAC

Overall Survival (OS) in BL-8040.01 – rrAML study Kaplan-Meier (K-M) Methodology Including 1.5mg/kg Treated Subjects (N=16)





Ravandi et al.

Circles displayed identify censoring pattern



BLAST study: Consolidation therapy in AML patients in first remission

Phase 2b double-blind, placebo controlled study (n=194): NCT02502968

Treatment: Two or three cycles (age-based) of consolidation with high-dose Ara-C together in combination with either BL-8040 or placebo

SCREENING TREAMENT CYCLE (DAYS) FOLLOW UP



 $\,$ BL-8040 potentially offers AML patients prolonged remission and increased overall survival





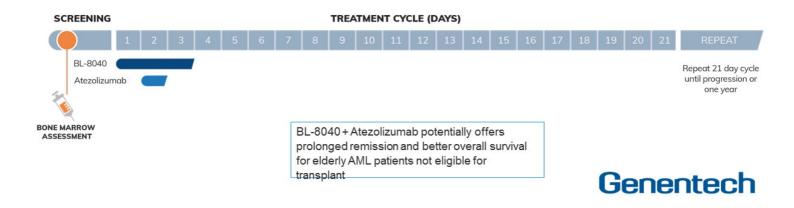
Objectives	To demonstrate that the combination of BL-8040 High Dose Cytarabine (HiDAC)
Primary	Prolongs the Relapse free survival
Secondary	Reduces the minimal residual disease (MRD)
	Prolongs the Overall survival
Safety and Tolerability	Is safe and tolerable.



BATTLE study - Combination of BL-8040 and Atezolizumab in AML patients at a high risk of relapse

Phase 1b/2 single arm, open-label study (n=60): NCT03154827

A Phase 1b/2, multi-center, single arm, open-label study, to evaluate the safety and efficacy of BL-8040 in combination with Atezolizumab for maintenance treatment in AML patients of 60 years or older that are not fit for transplant



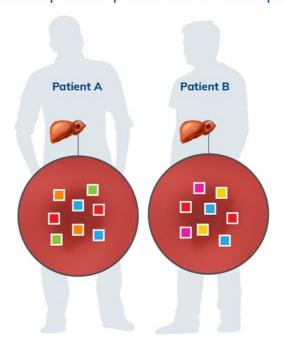


Objectives	To demonstrate that the combination of BL-8040 and Atezolizumab
Primary	Prolongs the relapse free survival (RFS) time as compared to historical data.
Secondary	Reduces the minimal residual disease (MRD)
	Prolongs the Overall Survival (OS) time as compared to historical data.
	Prolongs the time to first relapse as compared to historical data.
Safety and Tolerability	Is safe and tolerable.





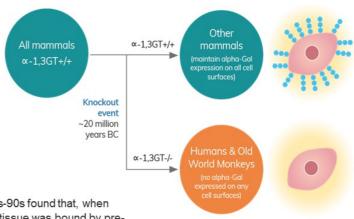
- Tumors vary from patient to patient in their neoantigen load and identity
- AGI-134 is a universal drug that evokes a vaccine effect via a unique, hyperacute, multi-arm mechanism that targets patient-specific neoantigens

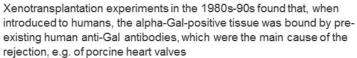




alpha-Gal and anti-Gal

- The alpha-Gal epitope is abundantly synthesized on glycolipids of nonprimates
- Due to constant exposure to this antigen (expressed by gut flora) humans develop and maintain high levels of anti-Gal Abs



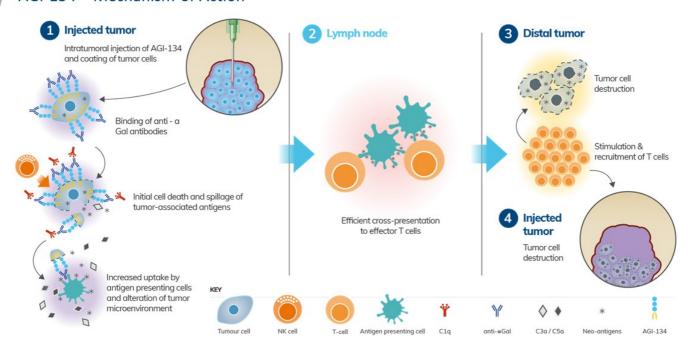




A fully synthetic a-Gal glycolipid molecule for intratumoral injection into solid tumors, to induce an immune response against a patient's own neoantigens

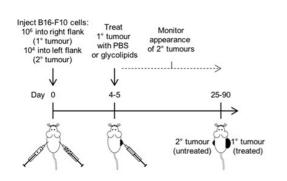


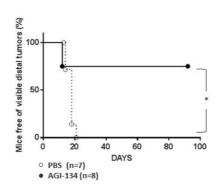


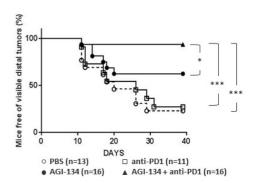




- A single dose of AGI-134 into a primary tumor protected mice from secondary tumor development for more than 90 days
- Combination of AGI-134 with an immune checkpoint inhibitor (anti-PD-1) resulted in increased efficacy over either agent's monotherapy effect







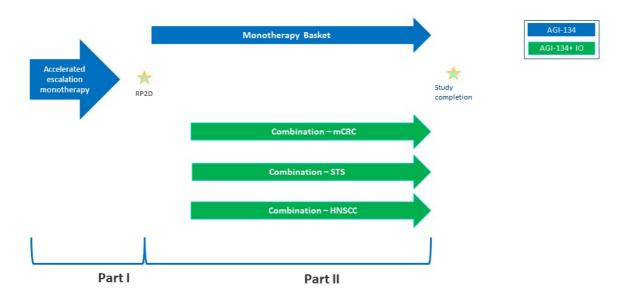
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PG.	Newtink Gene	Retsonally accin	The donists in the desires	Oncolytic Airc	1505
Evokes personalized anti-tumor immunity	1		✓	✓	✓
Targets a multitude of patient-specific neoantigens	✓			✓	✓
Does not require complex ex vivo processing or computer modelling	√			✓	
Harnesses pre-existing antibodies	✓	✓			
Directly labels the treated tumor for destruction	✓				
Activates the complement cascade , creating a proinflammatory TME	1				

^{*}NewLink Genetics were developing a whole-cell cancer vaccine using alpha-Gal to boost immunogenicity. As whole-cell cancer vaccines do not target patient-specific neoantigens and do not alter the TME, they failed in Ph 3





RP2D = Recommended Phase 2 Dose

STS = Soft Tissue Sarcoma

mCRC = Metastatic Colorectal Cancer

HNSCC = Head and Neck Squamous Cell Carcinoma

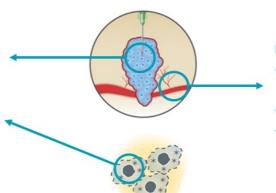


A comprehensive immune monitoring strategy that aims to:

- Assess how immune status at baseline affects response to treatment
- Assess how immune status changes in response to treatment
- Identify markers that are predictive of patient response to treatment

Treated and distal tumors:

- Level and composition of immune infiltrate & change with treatment
- Changes in infiltrating T cell repertoire
- Changes in inflammatory signature



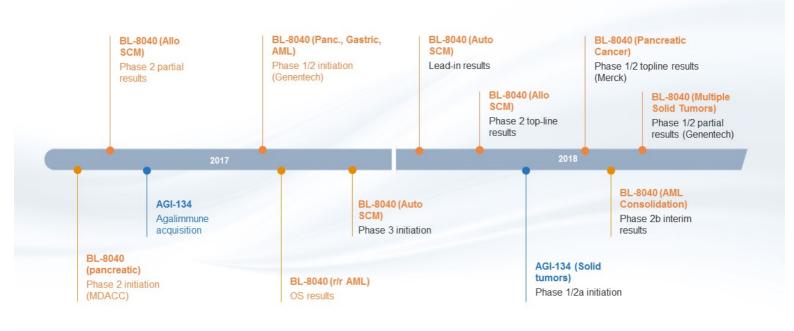
Peripheral blood:

- Anti-Gal antibody titer and change with treatment
- Changes in circulating T cell repertoire
- Changes in pro-inflammatory mediators









BIOLINERX

- Multiple read-outs during 2018: COMBAT top line results, Phase 3 lead-in results and potential BLAST interim results
- Continue to lay foundations for future events: Phase 3 in SCM, AGI-134 initiation
- Company expecting to meet previously-stated timelines
- Expecting continued collaborations with leading global pharma companies in 2018





Long-term vision



Our plan is to become a significant player in the biotech industry

- With critical mass of advanced projects in development
- Alongside portfolio of revenue-generating assets

We intend to achieve the following:

- 2-3 products in the market, with material amount of sustainable revenues
- Pipeline of 3-5 clinical stage assets
- Full infrastructure to advance assets through registration and market launch
- Expansion of strategic collaborations with global pharma companies, with direct access to cutting edge technologies
- One or more significant out-licensing deals with global pharma company
- Execute strategic transactions as opportunities arise (in addition to traditional in-licensing model)

