Rosetta Genomics Expands Patent Protection for Thyroid microRNA Biomarkers with U.S. Patent Allowance

Receives eighth patent related to classifying indeterminate thyroid nodules with several additional patent applications in process

PHILADELPHIA and REHOVOT, Israel (November 13, 2017) – Rosetta Genomics Ltd. (NASDAQ: ROSG), a genomic diagnostics company that improves treatment decisions by providing timely and accurate diagnostic information to physicians, announces that it has expanded its global intellectual property portfolio related to classifying indeterminate thyroid nodules ("ITN"), with a new patent allowance in the United States. With this new patent allowance, Rosetta Genomics holds eight patents related to classifying ITNs as either benign or suspicious for malignancy.

The United States Patents and Trademark Office has granted a patent allowance for patent application US 15/586,747, a divisional application of the parent patent titled "microRNAs and uses thereof." This application claims hsa-miR- 29b-1-5p, its complement and a sequence at least 90% identical to it, as well as a probe and a vector comprising this microRNA.

"Fortifying our patents related to thyroid cancer biomarkers is particularly important as we advance our focused strategy to expand the utilization of RosettaGX Reveal™ a first-in-class thyroid microRNA Classifier for classifying ITNs, and gain market share in the $350 million U.S. market for ITNs," noted Kenneth A. Berlin, President and Chief Executive Officer of Rosetta Genomics.

About Rosetta Genomics

Rosetta is pioneering the field of molecular diagnostics by offering rapid and accurate diagnostic information that enables physicians to make more timely and informed treatment decisions to improve patient care. Rosetta has developed a portfolio of unique diagnostic solutions for oncologists, urologists, endocrinologists, cytopathologists and other specialists to help them deliver better care to their patients. RosettaGX Reveal™, a Thyroid microRNA Classifier for classifying indeterminate thyroid nodules, as well as the full RosettaGX® portfolio of cancer testing services are commercially available through the Company's Philadelphia, PA- and Lake Forest, CA-based CAP-accredited, CLIA-certified labs.

Forward-Looking Statement Disclaimer

Various statements in this release concerning Rosetta's future expectations, plans and prospects containing the words "expect," "believe," "will," "may," "should," "project," "estimate," "anticipated," "scheduled," and like expressions, and the negative thereof, constitute forward-looking statements for the purposes of the safe harbor provisions under The Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by these forward-looking statements as a result of various risks and uncertainties, including, but are not limited to the following: we will require

substantial additional funds to continue our operations and, if additional funds are not available, we may need to significantly scale back or cease our operations; we have a history of losses and may never be profitable; if we are unable to expand sales of our diagnostic tests in the United States, it would have a material adverse effect on our business and financial condition; if we are unable to find profitable strategic alternatives for our PersonalizeDx diagnostic testing and services business, it would have a material adverse effect on our business and financial condition; the intensely competitive biotechnology market could diminish demand for our tests and products; the market may not be receptive to any diagnostic tests or therapeutic products using our microRNA technology; we currently have limited sales, marketing or distribution experience and may in the future depend significantly on third parties to commercialize microRNA-based diagnostic tests or therapeutic products we may develop; we are largely dependent upon our distributors for the success of commercialization of our current diagnostic tests; health insurers and other third-party payors may decide not to cover our diagnostic products or may provide inadequate reimbursement, which could jeopardize our commercial prospects; because of Medicare billing rules, we may not receive reimbursement for all tests provided to Medicare patients; if we fail to comply with our obligations under any licenses or related agreements, we could lose license rights that may be necessary for developing microRNA-based diagnostics and therapeutics; if we fail to comply with the complex federal, state, local and foreign laws and regulations that apply to our business, we could suffer severe consequences that could materially and adversely affect our operating results and financial condition; we contract with a single manufacturer for the purchase of microarray chips for certain tests, and the failure of this manufacturer to supply sufficient quantities on a timely basis could have a material adverse effect on our business; and other risk factors discussed under the heading "Risk Factors" in Rosetta's most recently filed Annual Report on Form 20-F, as filed with the SEC. In addition, any forward-looking statements represent Rosetta'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. Rosetta does not assume any obligation to update any forward-looking statements unless required by law.

Rosetta Genomics Contact:
Ken Berlin, President & CEO
(267) 298-1159
investors@rosettagx.com

Rosetta Genomics Investor Contact:
LHA Investor Relations
Anne Marie Fields
212-828-3777
afields@lhai.com

# # #