News Release

Marina Biotech to Update Its tkRNAi Clinical Program at Biotech Showcase

City of Industry, Calif. (December 27, 2016) - Marina Biotech, Inc. (OTCQB: MRNA), a biopharmaceutical company focused on the development and commercialization of innovative therapeutics for disease intersections of arthritis, hypertension, and cancer, today announced that the company's Chief Executive Officer Joseph W. Ramelli and its Chairman Dr. Vuong Trieu will present a corporate update of the recent merger with IthenaPharma and clinical updates of the company's tkRNAi program at the 9th Annual Biotech Showcase on January 9, 2017 at 8:30 am PT. The Biotech Showcase event runs from January 9-11, 2017 concurrently with the J.P. Morgan Healthcare Conference.

During the presentation, management will update investors on the START-FAP (Safety and Tolerability of An RNAi Therapeutic in Familial Adenomatous Polyposis) proof of concept clinical trial with CEQ508 and the clinical development plan for CEQ508/M-101 will be provided. CEQ508 is the first drug candidate in a novel class of therapeutic agents utilizing the transkingdom RNA interference (tkRNAi) platform. CEQ508 comprises attenuated bacteria that are engineered to enter into dysplastic tissue and release a payload of short-hairpin RNA (shRNA), a mediator in the RNAi pathway. The shRNA targets the mRNA of beta-catenin, which is known to be dysregulated in classical FAP. CEQ508 is being developed as an orally administered treatment to reduce the levels of beta-catenin protein in the epithelial cells of the small and large intestine.

About FAP
CEQ508 is being developed for the treatment of Familial Adenomatous Polyposis (FAP), a hereditary condition that occurs in approximately 1:10,000 persons worldwide. FAP is caused by mutations in the Adenomatous Polyposis Coli (APC) gene. As a result of these mutations, epithelial cells lining the intestinal tract have increased levels of the protein beta-catenin, which in turn, results in uncontrolled cell growth. Proliferation of the epithelial cells results in the formation of numerous (hundreds to thousands) non-cancerous growths (polyps) throughout the large intestine. By age 35, 95% of individuals with FAP have developed polyps and most will experience adverse effects including increased risk of bleeding and the potential for anemia. In more severe cases, obstruction of the intestines, abdominal pain, and severe bouts of diarrhea or constipation can occur. FAP patients are also at an increased risk of various cancers, the most concerning of which is a nearly 100% occurrence of colon cancer if measures are not taken to prevent the formation of polyps. For many patients, complete colectomy (surgical removal of the entire large intestine), usually performed in the late teenage years or early twenties, is the only viable option for treatment. However, surgical intervention is not curative as the risk of polyps forming in the remaining portions of the intestinal tract and in the small intestine continues after colectomy.

About Marina Biotech, Inc.
Marina Biotech is a biotechnology company focused on the development and commercialization of ~~of~~ innovative therapeutics for disease intersections of arthritis, hypertension, and cancer. Our pipeline includes combination therapies of oligonucleotide-based therapeutics and small molecules. The Marina Biotech pipeline currently includes a clinical program in Familial Adenomatous Polyposis (a precancerous syndrome). By its merger with IthenaPharma, Marina Biotech recently acquired IT-102/IT-103- next generation celecoxib- which will be developed together with CEQ508 as a therapeutic enhancer for therapies against FAP and CRC. IT-102/IT-103 are also being developed for the treatment of combined arthritis/ hypertension and treatment of pain requiring high dose of celecoxib. Additional information about Marina Biotech is available at http://www.marinabio.com.

Marina Biotech Forward-Looking Statements

Statements made in this news release may be forward-looking statements within the meaning of Federal Securities laws that are subject to certain risks and uncertainties and involve factors that may cause actual results to differ materially from those projected or suggested. Factors that could cause actual results to differ materially from those in forward-looking statements include, but are not limited to: (i) the ability of Marina Biotech to successfully integrate its business operations with those of IthenaPharma; (ii) the ability of Marina Biotech to obtain funding to support its clinical development; (iii) the ability of Marina Biotech to attract and/or maintain manufacturing, research, development and commercialization partners; (iv) the ability of Marina Biotech and/or a partner to successfully complete product research and development, including preclinical and clinical studies and commercialization; (v) the ability of Marina Biotech and/or a partner to obtain required governmental approvals; and (vi) the ability of Marina Biotech and/or a partner to develop and commercialize products prior to, and that can compete favorably with those of, competitors. Additional factors that could cause actual results to differ materially from those projected or suggested in any forward-looking statements are contained in Marina Biotech's most recent filings with the Securities and Exchange Commission. Marina Biotech assumes no obligation to update or supplement forward-looking statements because of subsequent events.

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