NanOlogy™

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Positive Preclinical Findings from Inhaled NanoPac® Lung Study Published in the Journal of Aerosol Medicine and Pulmonary Drug Delivery

- *Preclinical Study Demonstrated Inhaled NanoPac Shows Prolonged Retention and Limited Systemic Exposure*

FT. WORTH/DALLAS, (October 30, 2018) — NanOlogy, a clinical-stage oncology development company, announced today that positive findings from a pharmacokinetic (PK) preclinical study of inhaled NanoPac (submicron particle paclitaxel for nebulized inhalation) was published in an article entitled "Pharmacokinetic Profile of Inhaled Submicron Particle Paclitaxel (NanoPac) in a Rodent Model," in the *Journal of Aerosol Medicine and Pulmonary Drug Delivery*.

The preclinical PK study examined the retention of NanoPac in rat lung following a single inhalation via a nose-only exposure chamber. Data showed measurable amounts of drug in the lung at the end of the 14-day study with examined tissue being microscopically indistinguishable from normal lung tissue. The 14-day retention of drug in lung tissue came as a surprise to researchers who had never seen this length of retention before.

A follow-on preclinical study examined the therapeutic effect of inhaled NanoPac using an orthotopic model of non-small cell lung cancer (NSCLC). Histologic analysis revealed NanoPac achieved a significant decrease in primitive tumor cell population as well as significant tumor regression. Data from this study was presented at the American Society of Clinical Oncology (ASCO) Annual Meeting this past June in an abstract entitled "NanoPac Inhalation Treatment of NSCLC in a Nude Rat Orthotopic Lung Cancer Model". Immunohistochemistry stains of NanoPac treated animals demonstrated immune cell infiltration that suggested immune-mediated tumor kill in addition to a direct tumoricidal effect.

IND-enabling studies are underway on NanoPac to allow for a clinical trial in 2019. This work is in addition to an extensive preclinical and clinical development program underway by NanOlogy in peritoneal cancers, prostate cancer, pancreatic cancer, pancreatic mucinous cysts, bladder cancer, renal cancer, breast cancer, and cutaneous metastases.

All NanOlogy investigational drugs are progressing under FDA's streamlined 505(b)(2) regulatory pathway. The NanOlogy submicron particle technology platform is based on a patented production process that reduces the size of paclitaxel and docetaxel API crystals by up to 400 times into stable submicron particles of pure drug with exponentially increased surface area and unique geometry. The submicron particles are so unique that they are protected under a

composition of matter patent (US 9,814,685) valid until 2036, which provides new molecular entity-like advantages without the risks and timeline associated with NME drug development.

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About NanOlogy

NanOlogy, LLC (www.nanology.us) is a private clinical stage oncology company formed in 2015 to finance and clinically develop a patented submicron particle technology platform for local, sustained delivery of proven drugs aimed at increasing their safety and efficacy in the treatment of cancer and related conditions.

Disclaimer

This announcement contains forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995, as amended, including statements about our product development, business, and other activities. Such statements are subject to the risks and uncertainties inherent in any pharmaceutical development program which may cause actual results to differ materially due to developmental, clinical trial, regulatory, market, competitive, technological, or other factors. All forward-looking statements are made as of the date of this announcement and the company disclaims any intent or obligation to update these statements. NanOlogy investigational drugs have not been proven to be safe and effective in accordance with the requirements of the U.S. FDCA and have not been approved by FDA for commercial distribution.

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