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Artelo Biosciences Announces Publication of New Peer-Reviewed Pre-Clinical Research Demonstrating ART26.12's Effectiveness in Treating and Preventing Oxaliplatin-Induced Peripheral Neuropathy

SOLANA BEACH, Calif., Jan. 23, 2024 (GLOBE NEWSWIRE) -- [Artelo Biosciences, Inc. \(Nasdaq: ARTL\)](#), a clinical-stage pharmaceutical company focused on modulating lipid-signaling pathways to develop treatments for people living with cancer, pain, and neurological conditions, today announced new research published in the peer-reviewed [Journal of Pain](#). The research article, titled "[Discovery and preclinical evaluation of a novel inhibitor of FABP5, ART26.12, effective in Oxaliplatin-induced Peripheral Neuropathy](#)," highlights Artelo's pre-clinical asset, ART26.12, and its potential ability to treat and prevent Oxaliplatin-Induced Peripheral Neuropathy (OIPN) in a series of separate studies.

ART26.12 is a Fatty Acid Binding Protein 5 (FABP5) inhibitor in development for the treatment of chemotherapy-induced peripheral neuropathy (CIPN), a type of neuropathic pain caused by chemotherapy as well as non-chemotherapy cancer treatments such as immunomodulating drugs. Oxaliplatin (OXA) is a commonly used platinum-based antineoplastic agent that causes oxaliplatin-induced peripheral neuropathy (OIPN) in up to 98% of patients treated with OXA, oftentimes resulting in treatment dose reduction, cessation of anti-cancer treatment prematurely, or can result in a painful persistent peripheral neuropathy even after chemotherapy is stopped.

"In pre-clinical safety studies, ART26.12 has shown minimal off target effects, high oral bioavailability, and a NOAEL (no-observed-adverse-effect-level) of 1000 mg/kg/day administration," commented Andy Yates, PhD, Senior Vice President and Chief Scientific Officer at Artelo. "We are highly encouraged by the four research studies presented in this paper demonstrating ART26.12, our patented and novel treatment approach to inhibiting FABP5, was effective in treating and preventing the painful condition of OIPN."

According to [Coherent Market Insights](#), the global neuropathic pain market is estimated to be valued at \$7.6 billion, demonstrating the need for an innovative therapy that has the potential to provide non-opioid pain relief. Artelo has conducted multiple pre-clinical studies in painful neuropathies, including diabetic neuropathy, paclitaxel-induced peripheral neuropathy, and OIPN, the latter two of which has no FDA-approved treatment. The Company previously reported a positive pre-IND (investigational new drug) meeting with the Food and Drug Administration (FDA) and anticipates filing the IND for ART26.12 in the first half of 2024.

About ART26.12

Fatty Acid Binding Proteins (FABPs) are a family of intracellular proteins that chaperone lipids including endocannabinoids and fatty acids. FABP is overexpressed and associated with abnormal lipid signaling in a number of pathologies. ART26.12, Artelo's lead FABP inhibitor, is a potent and selective inhibitor of FABP5 being developed as a novel, peripherally acting, non-opioid, non-steroidal analgesic, with an initial clinical study planned for chemotherapy-induced peripheral neuropathy (CIPN). Beyond ART26.12, Artelo's extensive library of small molecule inhibitors of FABPs have shown therapeutic promise for the treatment of certain cancers, neuropathic and nociceptive pain, and anxiety disorders.

About Artelo Biosciences

Artelo Biosciences, Inc. is a clinical stage pharmaceutical company dedicated to the development and commercialization of proprietary therapeutics that modulate lipid-signaling pathways including the endocannabinoid system. Artelo is advancing a portfolio of broadly applicable product candidates designed to address significant unmet needs in multiple diseases and conditions, including anorexia, cancer, anxiety, pain, and inflammation. Led by proven biopharmaceutical executives collaborating with highly respected researchers and technology experts, the company applies leading edge scientific, regulatory, and commercial discipline to develop high-impact therapies. More information is available at www.artelobio.com and Twitter: [@ArteloBio](https://twitter.com/ArteloBio).

About CIPN

Chemotherapy induced peripheral neuropathy (CIPN) is a type of neuropathic pain caused by chemotherapy as well as non-chemotherapy cancer treatments such as immunomodulating drugs. CIPN is a major challenge with many oncological treatments, sometimes resulting in dose reduction or cessation of the cancer treatment, negatively impacting efficacy and survival. Acute CIPN occurs during chemotherapy and chronic CIPN can last months to years. Around 30% of patients will still have CIPN a year, or more, after finishing chemotherapy.

Forward Looking Statements

This press release contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 and Private Securities Litigation Reform Act, as amended, including those relating to the Company's product development, clinical and regulatory timelines, market opportunity, competitive position, possible or assumed future results of operations, business strategies, potential growth opportunities and other statement that are predictive in nature. These forward-looking statements are based on current expectations, estimates, forecasts and projections about the industry and markets in which we operate and management's current beliefs and assumptions. These statements may be identified by the use of forward-looking expressions, including, but not limited to, "expect," "anticipate," "intend," "plan," "believe," "estimate," "potential," "predict," "project," "should," "would" and similar expressions and the negatives of those terms. These statements relate to future events or our financial performance and involve known and unknown risks, uncertainties, and other factors which may cause actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Such factors include those set forth in the Company's filings with the Securities and Exchange Commission, including our ability to raise additional capital in the future. Prospective investors are cautioned not to place undue reliance on such forward-looking

statements, which speak only as of the date of this press release. The Company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise, except to the extent required by applicable securities laws.

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