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Qrono Announces Positive Preclinical Proof-Of-Concept Results Of Novel Targeted Loco-Regional Oncology Delivery Platform (QARRUS™)

QARRUS™ targets the delivery of chemotherapy to tumors, CSCs and their supporting TAMs, and MDSCs.

PITTSBURGH (PRWEB) July 25, 2016 – Qrono Inc., a specialty pharmaceutical company focused on long-acting injectables (LAIs), today announced positive preclinical in vitro and in vivo proof-of-concept study results for its [QARRUS™ platform](#). QARRUS™ is a novel microparticle-hydrogel platform that targets chemotherapy to tumors, cancer stem cells (CSCs) and their supporting tumor associated macrophages (TAMs), and myeloid derived suppressor cells (MDSCs). QARRUS' mathematically-optimized microparticles sustain six weeks or more of chemotherapeutic drug delivery in a single injection that directly eliminates these key cells.

In a series of xenograft mice studies, funded by the National Institutes of Health, QARRUS™ provided six weeks of drug delivery and elevated drug concentration in tumor and regional tissues ten-fold over baseline, leading directly to a four-fold reduction in tumor volume over four weeks (relative to controls). This QARRUS™ formulation also maintained systemic drug levels five times below the clinical threshold for dose limiting toxicity.

Cancer survival rates have changed little in the past two decades, highlighting a clear need for improved treatment options, particularly for patients with locally advanced disease where tumor cells have infiltrated regional tissues. An increase in chemotherapeutic candidate attrition from 78% to 82% during this period, often due to dose-related toxicity, has illustrated the need for novel, targeted formulations that de-risk clinical translation and create improved medications for cancer treatment.

"An increasing body of recent evidence has demonstrated that high-level tumor behaviors from angiogenesis to metastasis depend on robust cross-talk between CSCs and TAMs," commented Dr. Sam Rothstein, CSO of Qrono. "The QARRUS™ platform advances the state-of-the-art in loco-regional targeted chemotherapy by delivering drug to an established tumor and its TAMs while improving patient safety relative to i.v. administration".

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About Qrono: Qrono develops unique therapies for the treatment of solid tumors. Qrono's [product pipeline](#) focuses on the unmet medical needs of cancer patients with therapy resistant tumors. The company uses targeting technology to develop localized tumor-focused therapies that can achieve a broad patient impact. Its lead product QR206 is in ongoing Investigational New Drug enabling studies needed for clinical translation. **Qrono media contact: Sam Rothstein, CEO Phone: +1-412-213-8448 Email: srothstein@qrono.com**