

EXACT Therapeutics and TGen publish preclinical data on Acoustic Cluster Therapy combined with chemotherapy in a pancreatic cancer model

OSLO/PHOENIX, Arizona, USA, 22 Nov, 2022: EXACT Therapeutics AS (“EXACT-Tx”, Euronext Growth: EXTX), a Norwegian clinical stage precision health company utilising Acoustic Cluster Therapy (ACT[®]) across multiple therapeutic areas, and the Phoenix-based Translational Genomics Research Institute (TGen), part of City of Hope, today announce the publication of a paper in the peer-reviewed *Journal of Controlled Release* titled “Effect of Acoustic Cluster Therapy combined with chemotherapy in a mouse model of pancreatic cancer”. This study was partly funded by a grant from Innovation Norway.

The ACT[®] technology is based on microclusters of microbubble-microdroplets and when sonicated, vaporisation of the microdroplets lead to the formation of larger ACT[®] bubbles. The formation and subsequent oscillation of the ACT[®] bubbles in the microvasculature produces mechanical bio-effects that enhance drug delivery and efficacy. TGen have evaluated the effectiveness of the technology in a preclinical pancreatic cancer model, and the results demonstrated that ACT[®] significantly improved the therapeutic efficacy of two cornerstone treatment regimens in the management of pancreatic cancer. The best effect was seen when drug administration preceded the ACT[®] treatment, but interestingly the anti-tumour effect was almost maintained when the drugs were administered after ACT[®]-treatment was finalized. Similar observations have been made in previous work with ACT[®] combined with chemotherapy. This suggests that the main effect of ACT[®] is not on the drug itself, but rather affects the vasculature and tumour microenvironment to facilitate drug delivery and therapeutic response.

For the full article, please follow:

<https://www.sciencedirect.com/science/article/pii/S016836592200760X>

“Our study demonstrates that ACT can significantly improve the effect of two standard of care chemotherapeutic regimens in a patient-derived pancreatic cancer model in mice. The ACT treatment resulted in a significant increase in tumour growth inhibition and a 7.2 times higher probability of having a complete remission of the tumour compared to the chemotherapeutics alone.” said **Dr. Haiyong Han, a Professor in TGen’s Molecular Medicine Division and the study’s senior author.**

“Pancreatic cancer is known to be notoriously resistant to treatment, in part because of poor drug delivery.” said **Dr. Daniel Von Hoff, TGen’s Distinguished Professor and one of the national’s lead experts in pancreatic cancer.** “The results from the study are some of the most encouraging ones we have seen in preclinical models for pancreatic cancer, and we look forward to being involved in the further development of this promising technology.”

Dr Per Walday, CEO of EXACT-Tx, commented: “We are very pleased to announce the publication of these encouraging results from our collaboration with the prestigious Translational Genomics Research Institute in Phoenix, Arizona. These data are produced in a model with patient-derived material, which more closely resembles the tumour tissue characteristics of pancreatic cancer in man compared to cell-line based models. The results further underpin the established potential of ACT to enhance standard of care treatments for difficult to treat cancers and we look forward to progressing our clinical development program in this area.”



About EXACT-Tx

EXACT-Tx is a clinical-stage Norwegian precision health company developing a technology platform for targeted therapeutic enhancement – Acoustic Cluster Therapy (ACT®). ACT® follows a unique approach to ultrasound-mediated, targeted drug enhancement – with the potential to significantly amplify the clinical utility of a wide range of therapeutic agents across a multitude of indications including within oncology (chemotherapy, immunotherapy), infectious diseases, and brain diseases.

About TGen, part of City of Hope

[Translational Genomics Research Institute](#) (TGen) is a Phoenix, Arizona-based non-profit organization dedicated to conducting groundbreaking research with life-changing results. TGen is part of [City of Hope](#), a world-renowned independent research and treatment center for cancer, diabetes, and other life-threatening diseases. This precision medicine affiliation enables both institutes to complement each other in research and patient care, with City of Hope providing a significant clinical setting to advance scientific discoveries made by TGen. TGen is focused on helping patients with neurological disorders, cancer, diabetes, and infectious diseases through cutting-edge translational research (the process of rapidly moving research toward patient benefit). TGen physicians and scientists work to unravel the genetic components of both common and complex rare diseases in adults and children. Working with collaborators in the scientific and medical communities worldwide, TGen makes a substantial contribution to help patients through efficiency and effectiveness of the translational process. Follow TGen on [Facebook](#), [LinkedIn](#) and [Twitter @TGen](#).

Media Contact

Galen P. Perry, Sr. Vice President, Marketing & Communications
Phone: +1 602.343.8423
Email: gperry@tgen.org

About ACT®

- ACT® is a proprietary formulation consisting of microbubbles and microdroplets that are activated through the application of ultrasound with the consequent increase in targeted delivery of a co-administered therapeutic agent
- ACT® is supported by a strong and broad preclinical package demonstrating therapeutic enhancement in multiple oncology models (pancreatic, breast, colon, prostate) as well as blood-brain barrier penetration
- Initial focus of the Company is oncology, however the ACT® platform has potential across therapeutic areas (infectious diseases, CNS, immunotherapy) and product classes.

For further information on ACT®, please visit www.exact-tx.com

Media Contact

Per Walday, CEO
Phone: +47 91793429
Email: per.walday@exact-tx.com

Forward looking statements

This announcement and any materials distributed in connection with this announcement may contain certain forward-looking statements. By their nature, forward-looking statements involve risk and uncertainty because they reflect the Company's current expectations and assumptions as to future events and circumstances that may not prove accurate. A number of material factors could cause Actual results and developments to differ materially from those expressed or implied by this forward-looking statement.