

To Reach, Perchance to Kill the Cancer: A Soliloquy from Epeius Nanotechnologies Opposes that 'Sea of Troubles'

SAN MARINO, Calif., Sept. 7 (SEND2PRESS NEWSWIRE) – Epeius Biotechnologies Corporation, a leader in the emerging field of targeted genetic medicine, reports the publication of a landmark paper in clinical oncology. Following up on its advanced U.S. Phase I/II clinical trials of Rexin-G in chemo-resistant metastatic pancreatic cancer (Molecular Therapy, 2010, 18: 435-441), which gained both Orphan Drug and FDA Fast Track Status, this new paper documents the molecular mechanisms-of-action of Rexin-G seen in the process of tumor eradication-revealing the “smoking gun” of precision, tumor-targeted killer gene delivery amidst a veritable “sea” of actively dying (apoptosing) tumor cells.

Equally as important was the clinical finding that surgical oncologists were able to do more for cancer patients after the metastatic disease was brought under control by Rexin-G treatment.

Based on the adaptive Phase I/II study design, which included an FDA allowance for surgical intervention to be added to the treatment protocol in cases where repeated Rexin-G infusions had served to control the cancer and halt disease progression, the report describes the use of [Rexin-G](#) as both neoadjuvant therapy (before surgery) and as adjuvant therapy (after surgery) to prevent post-surgical spread and disease recurrence. Remarkably, the excised tumor(s) showed the process of Rexin-G accumulation within the tumors, as well as the molecular mechanisms of tumor cell destruction, with an unprecedented level of histological high-definition.

The landmark paper, published in the latest issue of Oncology Reports (Open Access, 24: 829-833, 2010) demonstrates the physical accumulation of the intravenous Rexin-G nano-medicine within the metastatic tumor prior to its surgical excision.

It additionally reveals the selective accumulation of the Rexin-G nanoparticles on the surfaces of the target cells, i.e., pancreatic cancer cells and their proliferative vasculature, which is a distinctive property of the tumor-targeted nanotechnology platform. Using elegant immunohistochemistry to identify the process of active cell death (apoptosis) enforced by Rexin-G, the molecular mechanisms of precision tumor-targeting and selective cell death have never been more vividly displayed.

It bears mentioning that the pancreatic cancer patient highlighted in this histological study is currently in surgical remission, with no new lesions during Rexin-G treatment and no disease recurrence going on six months after the Rexin-G / Surgical Excision / Rexin-G treatment combination.

About Epeius Biotechnologies:

Epeius Biotechnologies Corporation is a privately held biopharmaceutical company that is bringing the latest advancements in genetic medicine to the cancer patient with the development and commercialization of its leading oncology products and its tumor-targeted delivery systems. Rixin-G® is currently approved for the treatment of all chemotherapy-resistant solid tumors by the Philippine FDA.

To learn more about our lead products and/or our pipeline of proprietary biotechnologies, please visit us at www.epeiusbiotech.com. For recent papers, expert reviews, clinical reports in oncology and molecular therapy, etc., see the "Publications" section.

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