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Inhaled Hypoxia And Small Molecule Forms Of Hypoxia As Novel Anticancer Agents

Tech ID: 34473 / UC Case 2024-077-0

INVENTION NOVELTY

VALUE PROPOSITION

TECHNOLOGY DESCRIPTION

A groundbreaking approach to combat solid tumors using systemic hypoxia as a novel therapeutic strategy.

This technology induces a controlled, low-oxygen state in the body—similar to conditions experienced at high altitudes—which creates a metabolic competition between tumors and the host, limiting fuel sources necessary for tumor growth. Currently in the preclinical stage, this approach has demonstrated significant reductions in tumor growth in breast and pancreatic cancer models. Unlike traditional therapies focused on targeting the tumor directly, this invention introduces a paradigm-shifting method by leveraging the body's natural response to hypoxia.

APPLICATION

LOOKING FOR PARTNERS

STAGE OF DEVELOPMENT

RELATED MATERIALS

DATA AVAILABILITY

PATENT STATUS

Patent Pending

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OTHER INFORMATION

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