

Technology: [Use of imipramine blue and analogs thereof in treating cancers](#)

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The VA has joint ownership with Emory University

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Abstract: Compounds, pharmaceutical compositions including the compounds, and methods of preparation and use thereof are disclosed. The compounds are triphenyl methane analogs. The compounds and compositions can be used to treat and/or prevent a wide variety of cancers, including drug resistant cancers, inflammatory, degenerative and vascular diseases, and parasitic infections. The compounds are triphenyl methane analogs of imipramine blue and analogs thereof, as defined herein. The compounds are believed to function by inhibiting tNOX expression, the effects of ROS, and/or the production of HIF2. Thus, the compounds are novel therapeutic agents for a variety of cancers and other diseases.