Company Overview

Moleculin Biotech, Inc. is a clinical stage pharmaceutical company focused on the treatment of highly resistant cancers. We have three core technologies, all of which are based on discoveries made at M.D. Anderson Cancer Center by Dr. Waldemar Priebe and his team. Our clinical stage drugs are Annamycin, a Next Generation Anthracycline being studied for the treatment of relapsed or refractory acute myeloid leukemia, or AML, and WP1066, an Immune/Transcription Modulator targeting brain tumors, pancreatic cancer and AML. We are also engaged in preclinical development of additional drug candidates, including additional Immune/Transcription Modulators, as well as Metabolism/Glycosylation Inhibitors.

Our Next Generation Anthracycline, Annamycin, is unlike any currently approved anthracyclines, as it is designed to avoid multidrug resistance mechanisms with little to no cardiotoxicity. Annamycin has preliminary clinical data suggesting its potential to become the first successful therapy suitable for the majority of relapsed or refractory AML patients and is currently in two Phase II clinical trials.

WP1066 is one of several Immune/Transcription Modulators capable of stimulating immune response to tumors by inhibiting the errant activity of Regulatory T-Cells (TRegs) while also inhibiting key oncogenic transcription factors, including p-STAT3, c-Myc and HIF-1α. These transcription factors are widely sought targets that may also play a role in the inability of immune checkpoint inhibitors to affect more resistant tumors.

We are also developing new prodrugs to exploit the potential uses of inhibitors of glycolysis. Our lead Metabolism/Glycosylation inhibitor compound, WP1122, provides an opportunity to cut off the fuel supply of tumors by taking advantage of their overdependence on glucose as compared with healthy cells. New research also points to the potential for the glucose decoy (2-DG) within WP1122 to be capable of enhancing the usefulness of checkpoint inhibitors.

Management Team

Walter V. Klemp
Founder, President, Chairman, CEO, and Business Advisory Board Member

Donald Picker, PhD
Chief Scientific Officer

Robert Shepard, MD, FACP
Chief Medical Officer - Hematology

Sandra Silberman, MD, PhD
Chief Medical Officer - New Products

Jonathan P. Foster
Chief Financial Officer

Moleculin Biotech, Inc.
5300 Memorial Drive
Suite 950
Houston, TX 77007