

Worldwide PATENTS

Worldwide patents were granted on July 24, 2018, for US 10,029,997 B2 and US 10,266,505 B2 on April 23rd, 2019, on AP-001, AP-002 and AP-003. Patent applications have been granted or are pending in 37 other countries.

US Patent Number	Date of Patent	Date filed	Abstract
10,029,997 B2	7/24/2018	6/12/2015	The invention describes compounds that inhibit both HDAC and GSK3.beta. (i.e., HDAC/GSK3.beta. dual inhibitors). The invention further describes compositions containing these HDAC/GSK3.beta. dual inhibitors, as well as methods and kits using these HDAC/GSK3.beta. dual inhibitors to treat various medical conditions. The invention also provides methods and kits using a HDAC inhibitor and a GSK3.beta. to treat various medical conditions, and compositions containing a HDAC inhibitor and a GSK3.beta. Medical conditions treatable with various embodiments of the invention include but are not limited to cancers and tumors
10,266,505 B2	4/23/2019	6/12/2015	The invention describes compounds that inhibit both HDAC and GSK3.beta. (i.e., HDAC/GSK3.beta. dual inhibitors). The invention further describes compositions containing these HDAC/GSK3.beta. dual inhibitors, as well as methods and kits using these HDAC/GSK3.beta. dual inhibitors to treat various medical conditions. The invention also provides methods and kits using a HDAC inhibitor and a GSK3.beta. to treat various medical conditions, and compositions containing a HDAC inhibitor and a GSK3.beta. Medical conditions treatable with various embodiments of the invention include but are not limited to cancers and tumors.

Avenzoar, a prominent figure in medieval medicine, contributed significantly to the understanding and treatment of various diseases, including cancer. While specific impacts of Avenzoar on pancreatic cancer may not be documented due to historical context, his contributions to medicine paved the way for understanding the principles of pathology, pharmacology, and clinical observation that underpin modern oncology. His emphasis on empirical observation and systematic treatment approaches laid foundational principles crucial for contemporary cancer research and treatment modalities.