Research Abstract

Small molecules can be powerful tools for probing biological mechanisms and for creating therapeutics. We have used small molecules tools to discover a new form of regulated, non-apoptotic cell death involving iron-dependent lipid peroxidation, which we refer to as ferroptosis. The mechanism and biological relevance of this new form of cell death will be discussed. In addition, we have identified compounds that may be useful for promoting axonal regeneration. Potential clinical applications and mechanisms of action of these compounds will be discussed.

Recent Publications


