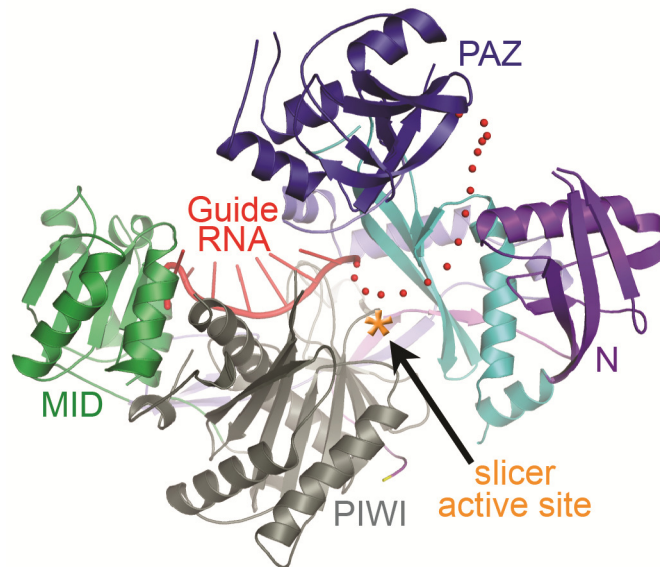




Mechanisms of Gene-Silencing by Human Argonaute-2



Argonaute-2 (Ago2) is a powerful regulatory protein that can be programmed to silence essentially any gene in human cells. Ago2 programming involves the binding of a small regulatory RNA, which Ago2 then uses as a guide for identifying complementary mRNA targets. We are taking a structural and mechanistic approach to understand how Ago2 binds guide RNAs, uses the encoded sequence information to identify mRNA targets, and recruits additional factors to promote silencing of targeted mRNAs.

Dr. Ian J. MacRae

The Scripps Research Institute

Host: Dr. Julie Claycomb

Date: Monday September 16, 2013

Time: 4:00 p.m.

Place: FitzGerald Building
150 College Street
Room 103