Anexelekto /MER Tyrosine Kinase Inhibitor ONO-7475 effectively kills acute myeloid leukemia cells in vitro and in vivo by mechanisms that involve disruption of diverse survival and proliferation pathways.

**In vitro**
- **ONO-7475**
  - **OCI-AML3** → MER Tyrosine Kinase-expressing Resistant
  - **MOLM13** → MER Tyrosine Kinase-lacking Sensitive
  - Reverse phase protein analysis → Supression of cell cycle regulators: CDK1, PLK1, CCNB1, RB

**In vivo**
- **ONO-7475**
  - FLT3 ITD murine xenograft model → Percent survival:
    - Control
    - ONO-7475
    - p=0.047

*Ruvolo et al., Haematologica, 2017*