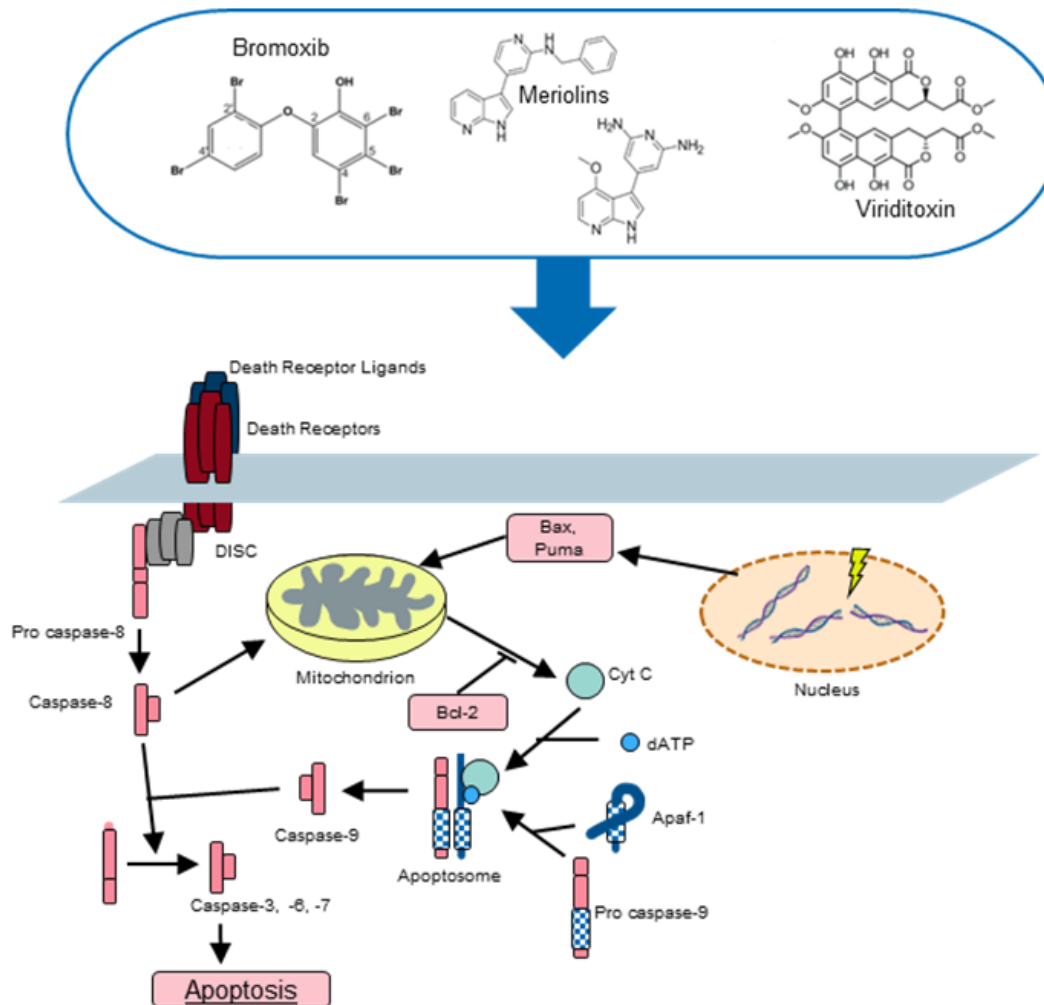


Characterization of apoptosis inducing natural compounds for the treatment of therapy resistant tumors



Inactivation of the mitochondrial apoptosis pathway is a major mechanism of tumor cells in order to acquire therapy resistances. The aim of this PhD thesis is to investigate the apoptotic signaling mechanisms in the presence of the natural compounds viriditoxin, bromoxib and meriolin derivatives. To this end, tumor cell lines with specific defects in the apoptotic machinery will be used, primarily T cell leukemia and B cell lymphoma cell lines. The final goal is to identify the respective targets and to determine the molecular mechanisms of the natural compounds that are deployed to induce apoptosis and to overcome therapy resistance..