Inhibitors of apoptosis for the treatment of ischemia reperfusion injuries and neurodegenerative conditions

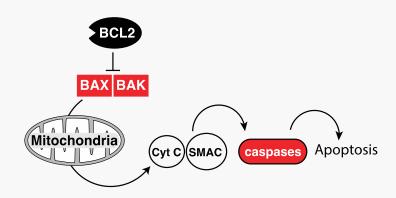


The Problem

- Inhibitors of apoptosis have broad therapeutic potential. This includes neurodegenerative disorders, e.g. Parkinson's, motor neuron disease and cardiac ischemic/ reperfusion injury.
- Apoptotic cell death requires BAX or BAX & BAK.

The Solution

- The BCL2 proteins BAX and BAK act upstream of caspase inhibitors to permeabilise mitochondria, irreversibly committing cells to die.
- Blocking BAX and/or BAK will be the gold-standard approach for preventing apoptotic cell death.



BAX and BAK

- Activated by cellular stress & damage
- Permeabilise mitochondria and irreversibly commit cells to die
- Act upstream of caspase activation

Our Program

- Team with demonstrated success in generation of small molecule protein-protein interaction inhibitors, i.e. Venetoclax.
- We have a target that will modulate BAX and BAK.
- · Multiple screening campaigns to identify hits.

Our Team

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Prof Peter Czabotar, Structural Biology

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