Introduction

PIM, PI3K and MTOR are regularly dysregulated in Prostate cancer. Interconnection of pathways.

Results and Conclusions

PIM, PI3K and MTOR activity in uncultured and cultured untreated condition

What will the pathway map reveal?

Genes switching compartments in response to targeted therapy

It is interesting to see how genes respond to treatment in the tumor environment when compared to the untreated. They switch around compartments. Some being downregulated by AUM better than AZD, A+B or BEZ.

Highly expressed PIM1 and PIM2 are in the stroma and PIM3 in epithelia. In response to kinase inhibitors PIM1 and PIM2 switching to epithelia and PIM3 to stroma. In the ROI showing post modification by phosphorylation of STAT3.

The compared pathway map of the indicative of disease in the untreated and little or no disease in the AUM treated.

This preliminary finding shows the efficacy of AUM a multi-kinase inhibitor over dual or single kinase inhibitor in prostate explants.

References:
