Selected Publications

Hegarat N, Smith E, Nayak G, Takeda S, Eyers PA and Hochegger H
Aurora A and Aurora B jointly coordinate chromosome segregation.

Mant A, Elliott D, Eyers PA and O’Kelly IM
Phosphorylation by Protein Kinase A (PKA) enables forward transport of K2P3.1 and K2P9.1, two pore domain potassium channels

Validating Aurora B as an anti-cancer drug target

Tyler RK, Shpiro N, Marquez R and Eyers PA.
VX-680 inhibits Aurora A and Aurora B kinase activity in human cells
Cell Cycle (2007) 6: 2846-2854

Eckerdt F, Eyers PA Lewellyn A, Prigent C and Maller JL.
Spindle Pole Regulation by a Discrete Eg5-interacting domain in TPX2.
Current Biology (2008) 18: 519-525

Chu MLH, Chavas LMG, Douglas KT Eyers PA and Tabernero L.
Crystal structure of the catalytic domain of the mitotic checkpoint kinase Mps1 in complex with SP600125

Tyler RK, Chu MLH, Johnson H, McKenzie EA, Gaskell SJ and Eyers PA
Phosphoregulation of human Mps1 kinase

Scutt PJ, Chu, MLH, Sloane DA, Cherry M, Bignell CR, Williams DH and Eyers PA.
Discovery and exploitation of inhibitor-resistant Aurora and Polo kinase mutants for the analysis of mitotic networks
Journal of Biological Chemistry (2009) 284: 15880-15893

Johnson H, Eyers CE, Eyers PA, Benyon RJ and Gaskell SJ.
Rigorous determination of the stoichiometry of protein phosphorylation using mass spectrometry

Chu MLH, Lang Z, Chavas LMG, Neres J, Federova OS, Tabernero L, Cherry M, Williams DH, Douglas KT and Eyers PA.
Biophysical and X-ray crystallographic analysis of Mps1 kinase inhibitor complexes

Chu MLH and Eyers PA.
UCSD/Nature Signaling Gateway, Molecule Pages: Mps1

Sloane DA Trikic MZ, Lang Z, Chu MLH, Lamers MBAC, Mason CS, Mueller I, Savory
WJ, Williams DH and Eyers PA.
Drug-Resistant Aurora A Mutants for Cellular Target Validation of the Small Molecule Kinase Inhibitors MLN8054 and MLN8237
To hear a podcast describing aspects of this work please visit: