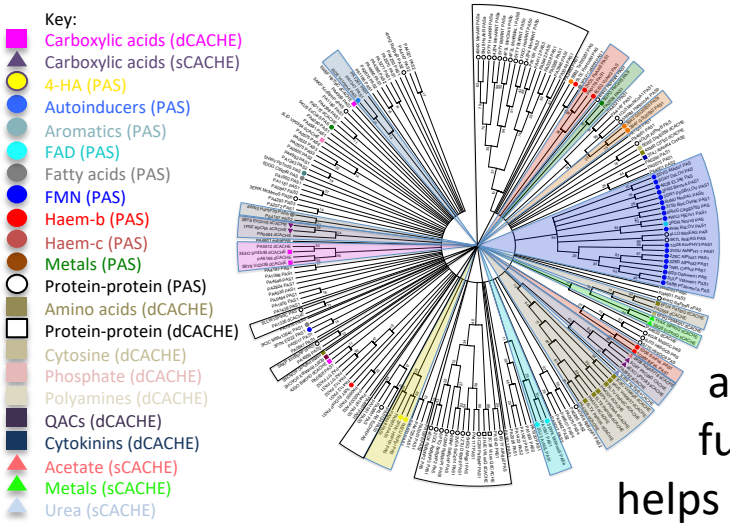
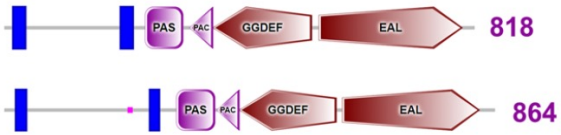
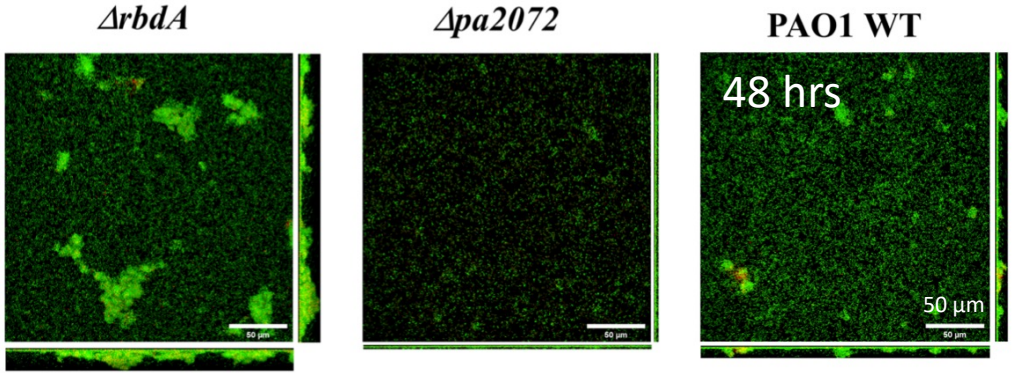


Molecular switches in biofilm dispersal

Proteins with similar domain architecture can have opposing function. Knowing the structure helps to understand the mechanism

	cyclase	phosphodiesterase	signature motif
PA0861 (RbdA)	GGDEF	ELL	DDFCAG
PA2072	GGDEF	EAL	DDFGTG





Ivo Tews

Three levels of activation in phospho-diesterases:

- dimerisation
- binding site formation
- metal cofactors

Handle to tune activity?

FEBS Letters 588 (2014) 4631–4636; Scientific Reports 7 (2017) 42166; Scientific Reports 10 (2020) 6232; Microbiology Spectrum (2021) *in press*