

Figure S1. Structural modelling of the ArsR proteins. **(A)** A structural model of the ArsRs represented by ArsR3 (Chosen based on the orientation of the C-terminal loop, which did not interfere with the depiction of the core structure). The two chains of the dimer are shown in purple and green and cysteines located at the C-terminal end of $\alpha 5$ are shown as yellow ball and sticks. **(B)** Superposition of the ArsR structures. ArsR1 and ArsR4 are not differentiable, shown in green ribbon, ArsR2 in purple, ArsR3 in blue.

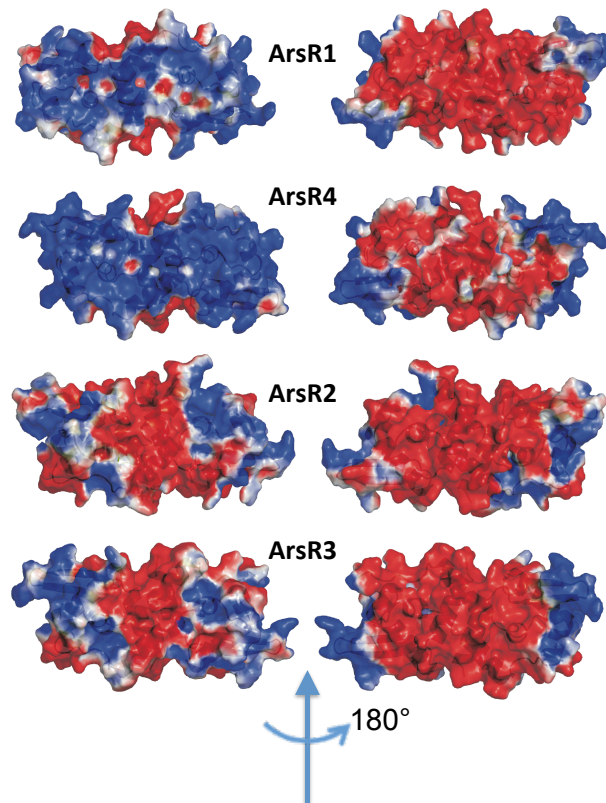


Figure S2. Electrostatic surfaces of the ArsR. Red surface denotes predicted negatively charged regions on the protein surface, blue depicts predicted positive charge. Images on right are flipped 180° about a vertical axis on the plane of the paper.