- Click on Tb927.8.3380 and scroll down to Essentiality Data
- Suppose that we discover a SDH inhibitor in our SBDD campaign against the ubiquinone binding site of *P. Aeruginosa*. Based on these data, which other species would be most worth testing its efficacy against? Which would be least worth testing?

## Essentiality Tb927.8.3380 has direct evidence of essentiality Gene/Ortholog Organism Phenotype Source Study Mycobacterium tuberculosis mtu1581 non-essential nmpdr mtu3379 Mycobacterium tuberculosis non-essential nmpdr Tb09.160.4380 no significant loss or gain of fitness in bloodstream forms (3 days) Trypanosoma brucei alsford significant gain of fitness in bloodstream forms (6 days) Tb09.160.4380 Trypanosoma brucei alsford Tb09.160.4380 Trypanosoma brucei no significant loss or gain of fitness in procyclic forms alsford Tb09.160.4380 Trypanosoma brucei significant gain of fitness in differentiation of procyclic to bloodstream forms alsford Tb927.8.3380 this record significant loss of fitness in bloodstream forms (3 days) alsford Trypanosoma brucei Tb927.8.3380 this record significant loss of fitness in bloodstream forms (6 days) alsford Trypanosoma brucei Tb927.8.3380 this record significant loss of fitness in procyclic forms alsford Trypanosoma brucei Tb927.8.3380 this record Trypanosoma brucei significant loss of fitness in differentiation of procyclic to bloodstream forms alsford b0724 Escherichia coli non-essential goodall b4153 Escherichia coli non-essential goodall

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- Suppose that we discover a SDH inhibitor in our SBDD campaign against the ubiquinone binding site of *P. Aeruginosa*. Based on these data, which other species would be most worth testing its efficacy against? Which would be least worth testing?
- The inhibitor should be tested against *T. brucei* and *T. gondii*. It probably won't be effective against *M. tuberculosis* and *P. berghei*.

## Essentiality Tb927.8.3380 has direct evidence of essentiality Gene/Ortholog Source Study Organism Phenotype mtu1581 Mycobacterium tuberculosis non-essential nmpdr mtu3379 Mycobacterium tuberculosis non-essential nmpdr no significant loss or gain of fitness in bloodstream forms (3 days) Tb09.160.4380 Trypanosoma brucei alsford significant gain of fitness in bloodstream forms (6 days) alsford Tb09.160.4380 Trypanosoma brucei Tb09.160.4380 no significant loss or gain of fitness in procyclic forms alsford Trypanosoma brucei Tb09.160.4380 significant gain of fitness in differentiation of procyclic to bloodstream forms alsford Trypanosoma brucei significant loss of fitness in bloodstream forms (3 days) alsford Tb927.8.3380 this record Trypanosoma brucei Tb927.8.3380 this record significant loss of fitness in bloodstream forms (6 days) alsford Trypanosoma brucei Tb927.8.3380 this record alsford Trypanosoma brucei significant loss of fitness in procyclic forms Tb927.8.3380 this record Trypanosoma brucei significant loss of fitness in differentiation of procyclic to bloodstream forms alsford b0724 Escherichia coli goodall non-essential b4153 Escherichia coli non-essential goodall