

BUDGET JUSTIFICATION

University of Idaho

A 2% inflation rate is applied to all salaries and fringe benefits. The University of Idaho has determined the salary year for senior personnel to be based on the calendar year.

A. SENIOR PERSONNEL: *\$18,870 total over three years*

As a co-PI Dr. Eva Top will oversee the postdoctoral scientist at the University of Idaho who will carry out part of the experiments under Aim 3b. She will also coordinate experiments, share model systems and troubleshoot with PI Kerr. She will also interact with Both Kerr and co-PI Ogbunu to let the modeling results inform the experiments and vice versa. She will devote at least two weeks of effort on the project each year, and thus requests 2 weeks of salary per year.

B. OTHER PERSONNEL: *\$40,344 total over three years*

B.1 Post-doctoral Fellow:

Postdoctoral scientist Dr. Erin Mack will carry out part of the experiments and interpretation of the results in Aim 3b. We request 3 months of her time in year 2, and 6 months in year 3. She joined Dr. Top's laboratory in 2019. She has a lot of expertise in the field of molecular microbiology and more recently in experimental plasmid evolution.

C.BENEFITS: *\$22,008 total over three years*

Fringe benefit rates are based on the applicable federally negotiated rates, currently 29.4% for faculty and 40.8% for staff including postdocs.

E. TRAVEL: *\$3,000 total over three years*

Domestic Travel:

Funds are requested for the postdoctoral scientist and Dr. Top to visit the Kerr lab in Seattle in Years 2 and 3. First experimental set-up and strains will be discussed, and in the last year a meeting to interpret the results and write up manuscripts will be conducive to wrapping up this project. We request \$1,500 per year. This will include per diem for two people 4 days (including travel days), lodging for three nights, and either mileage or flights from Moscow (ID) to Seattle.

G. OTHER DIRECT COSTS: *\$9,750 total over three years*

Materials and Supplies:

-General laboratory consumables for the experimental work of the postdoctoral scientist. As part of consumables we request funds for plasticware, glassware, chemicals, bacterial growth media, and molecular biology reagents to verify the presence of plasmids and genes during the evolution experiments. The deep sequencing will be performed at UW (see their budget).

-We request a small amount of funding for occasional repair of equipment needed for this project: \$ 200 in year 2 and \$500 in year 3.

H. INDIRECT COSTS: *\$46,927 total over three years*

The University of Idaho Indirect Cost rate is 48.5% from 1/1/22 to 6/30/22 and 50.0% thereafter. Graduate Student Fees and Insurance are not subject to indirect costs. Subcontract costs in excess of \$25,000 are not subject to indirect costs.