**JGI RESOURCE REQUEST**

Please indicate the capabilities that you are requesting from JGI. More information about these products, estimated sequence output, and analysis pipelines is available at <https://jgi.doe.gov/our-science/product-offerings/>.

*For questions about the JGI resource request form, please contact* [*jgi-jira+pmosupport@lbl.gov*](mailto:jgi-jira+pmosupport@lbl.gov)*.*

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| **CELL SORTING AND SIP CAPABILITIES** | |  |
| ***Capability*** | ***# of Samples*** | ***Estimated date of sample shipment to JGI*** |
| FACS sorting of bacterial/archaeal cells (limit 4 samples) |  |  |
| Stable Isotope Probing (SIP) fractionation (limit 36 samples) |  |  |

*All sorting and SIP requests should be accompanied by a sequencing request, below.*

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| **SEQUENCING** | |  |  |
| ***Capability*** | ***# of Samples*** | ***Estimated date of sample shipment to JGI*** | ***Analysis Support Requested beyond JGI’s*** [***standard pipelines***](https://jgi.doe.gov/user-program-info/product-offerings/) |
| Algal *de novo* genomes |  |  |  |
| Algal resequencing |  |  |  |
| Algal RNA-seq |  |  |  |
| Bacterial/archaeal *de novo* genomes |  |  |  |
| Viral *de novo* genomes |  |  |  |
| Bacterial/archaeal resequencing |  |  |  |
| Bacterial/archaeal RNA-seq |  |  |  |
| Bacterial/archaeal single cells |  |  |  |
| Viral single cells |  |  |  |
| Fungal *de novo* genomes |  |  |  |
| Fungal resequencing |  |  |  |
| Fungal RNA-seq |  |  |  |
| Metagenomes (no iTags) |  |  |  |
| Metatranscriptomes |  |  |  |
| Plant *de novo* genomes |  |  |  |
| Plant resequencing |  |  |  |
| Plant RNA-seq |  |  |  |
| Stable Isotope Probing (SIP) metagenomes |  |  |  |
| Other sequencing request |  |  |  |
| Other sequencing request details: |  | | |

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| **Organism detail (add rows if needed)** | | |
| ***Kingdom*** | ***Genus, species*** | ***Genome size (Mb) – eukaryotes only*** |
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| **Environmental sample detail (add rows if needed)** | |
| ***General description of metagenome sample and source*** | ***Sequencing coverage requested (Gb)*** |
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| **METABOLOMICS** | |  |
| ***Capability*** | ***# of Samples*** | ***Estimated date of sample shipment to JGI*** |
| Non-polar metabolite analysis - LC/MS (limit 200 samples) |  |  |
| Polar metabolite analysis - LC/MS (limit 500 samples) |  |  |

*More information available at* [*https://jgi.doe.gov/our-science/science-programs/metabolomics-technology/metabolite-analyses/*](https://jgi.doe.gov/our-science/science-programs/metabolomics-technology/metabolite-analyses/)

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| **DNA SYNTHESIS** | |  |
| ***Capability*** | ***# of Constructs*** | ***Request (kb)*** |
| Constructs <5kb |  |  |
| Constructs 5-10kb |  |  |
| Constructs >10kb |  |  |
| Combinatorial library |  |  |
| sgRNA library |  |  |
| **TOTAL (request must be 50-500kb)** |  |  |
|  |  |  |
| **DNA Synthesis Biosafety Information (required for all proposals including a synthesis component)** | | |
| **Are any of the genes or fragments to be synthesized:**  1.Related to the pathogenicity of an organism?\* □ Yes □ No  2. Known to or has potential to encode any form of infectious agent or  viral life-cycle component?\* □ Yes □ No  3. Known to have any toxicity, or the likelihood that this project might  increase toxicity?\* □ Yes □ No  4. Intended for use in creating a vaccine?\* □ Yes □ No | | |
| **Comments (required if you answered Yes to any questions above):** | | |
| **Biosecurity, Biosafety, Biocontainment, and Environmental screening \*** Describe the Biosecurity, Biosafety, Biocontainment, and Environmental aspects of your proposed research, including both the current aspects and the long-term implications of the work (desirable or otherwise). Describe what you will do (and who you will collaborate with) to address any aspects of concern and how you will mitigate any undesirable outcomes. This information will be critically assessed during the JGI's DNA Synthesis [Internal Review process](http://jgi.doe.gov/our-science/science-programs/synthetic-biology/synthetic-biology-guidelines/), and your research will be delayed if the reviewers request modifications to your proposal due to insufficient consideration or description of these aspects. | | |