

2017 Core Coins Program

High-throughput sequencing makes it possible to unlock the molecular and genetic bases of diseases, but analyzing the large sequence data sets requires computational resources and expertise that may not be available to all investigators. In response to the growing demand for sequence analysis, the School of Medicine is offering Core 'coins' awards through the [Computational Biology Consulting Core](#) (CBCC). The awards will provide scientists with leading-edge bioinformatics analysis of RNA sequencing (RNA-seq) or 16S rRNA metagenomics data sets, to be performed at the CBCC. Each award will cover or help defray the cost of analyses, up to a maximum of \$5,000. Any additional analysis costs will be the responsibility of the investigator (estimated project costs by data set size are diagramed below). Applications are due by **September 30, 2017**, and successful proposals will be announced by **October 15, 2017**.

Applications must be very brief, consisting of: *i*) a one-page project description, *ii*) a brief justification for the scope and need for the project and/or how the project responds to this RFA, and *iii*) the number of, and a brief description of the data sets. Priority will be given to proposals from junior investigators, pilot projects to provide support for grant applications, and analyses of new data, and will be based on agreement from investigators to recognize the Core 'coins' program and the CBCC in publications generated as a result of this funding. All data for analyses must be available by the end of the FY2018. Please submit your proposal through the CBCC [iLab](#) portal or email it to Liliana Florea (florea@jhu.edu), Associate Professor, Faculty Manager, Computational Biology Consulting Core.

Estimated costs by size of data set.

RNA-seq samples (40-100 M reads/sample [†])	Price estimate (\$)	Price per sample (\$)
2	1,450	725
3	1,850	617
4	2,300	575
5	2,750	550
6	3,150	525
7	3,575	510
8	4,050	506
9	4,475	497
10	4,950	495
20	8,800	440
40	15,525	388
60	20,700	345
80	24,400	305
100	27,300	273
150	34,500	230
200	40,000	200
>200	Var.	200

[†]Prices for experiments with <40 million or >100 million reads will vary.

16S rRNA samples	Estimated price (\$)	Price per sample (\$)
<20	2,000	Var.
40	3,500	88
60	5,000	83
80	6,500	81
100	8,000	80

150	11,000	73
200	14,000	70
250	16,500	66
300	19,000	63
350	21,500	61