

New York University
Courant Institute of Mathematical Sciences

Budget Justification

PI: Dennis Shasha

Project Title: RESEARCH-PGR: Comparative developmental dynamics: single-cell analysis of maize meristem trajectories

Budget Impact:

We anticipate no significant impact from the budget cut, within the PI, Dennis Shasha's salary. This is an important project and will seek to achieve the goals as noted initially.

Salaries, Wages and Fringe Benefits

Senior Personnel

Shasha, Dennis (Principal Investigator – Department of Computer Science): Salaries are calculated on a 9 month base.

- Summer: .288 person months per year

We anticipate no significant impact from the budget cut of the Co-PI's salary.

Other Personnel

Graduate Students: Academic year salaries are calculated on a 9 month base. One summer month of salary is equivalent to 1/6th of the academic year.

	# of Students	Academic Year	Summer
Year 1-4	1	9.0 months	2.0 months

Fringe Benefits

All personnel except Graduate Students: 30.5% of salary

Other Direct Costs

Other: Tuition Remission: 37% of Graduate student salary

Indirect Costs

Per the negotiated indirect cost rate agreement with DHHS dated September 17, 2018, New York University has a predetermined facilities and administrative (F&A) rate of 58.5% modified total direct costs (MTDC). Exclusions are as follows:

- Tuition Remission

Inflators

All expenses are inflated at 2.5% beginning each fiscal year (September 1st)

ORGANIZATION: CIMS
PROJECT TITLE: RESEARCH-PGR: Comparative developmental dynamics: single-cell analysis of maize meristem trajectories
PI(S): Dennis Shasha
PROJECT PERIOD: 09/01/2019-08/31/2023
 Rates updated 8.25.17 -JBC
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Submitted on:
 Revised & resubmitted on:
 9/1/2019 9/1/2020 9/1/2021 9/1/2022

Fame Codes		Base Salary	Divisor	Inflator	CAL YR		ACAD YR		SUMMER		YEAR 1	YEAR 2	YEAR 3	YEAR 4	TOTAL
					MOS	PCT	MOS	PCT	MOS	PCT					
51102	A. SENIOR PERSONNEL														
	Dennis Shasha	225,548	9						0.288	100.0%	7,218	7,398	7,583	7,773	29,972
	Subtotal Senior Personnel:										7,218	7,398	7,583	7,773	29,972
51141	B3-a GRADUATE STUDENTS (Academic Year Appt)														
	CS	32,127	9	inflation rates added to salary table auto calculating to the right			9	100.0%			32,127	32,930	33,753	34,597	133,407
	To Be Known										0	0	0	0	0
51141	Subtotal Graduate Students (AY):											32,127	32,930	33,753	34,597
51141	B3-b GRADUATE STUDENTS (Summer Appt)														
	To Be Known	32,127	6						2	100.0%	10,709	10,977	11,251	11,532	44,469
51141	Subtotal Graduate Students (Summer):										10,709	10,977	11,251	11,532	44,469
	Subtotal Graduate Students (All Appts):										42,836	43,907	45,004	46,129	177,876
	TOTAL SALARIES AND WAGES:										50,054	51,305	52,587	53,902	207,848
51170	C. FRINGE BENEFITS														
	1. Fringe Benefits - Regular RATES			0.000							30.5%	30.5%	30.5%	30.5%	9,141
											\$2,201	\$2,256	\$2,313	\$2,371	
	TOTAL SALARIES, WAGES & FRINGE BENEFITS:										52,255	53,561	54,900	56,273	216,989
51173	G. OTHER DIRECT COSTS														
	6-a. Other - Tuition Remission (37%)			0.000							15,849	16,246	16,651	17,068	65,814
	Total Other Direct Costs										15,849	16,246	16,651	17,068	65,814
	TOTAL OTPS										15,849	16,246	16,651	17,068	65,814
	H. TOTAL DIRECT COSTS										68,104	69,807	71,551	73,341	282,803
	BASE AMOUNT FOR INDIRECT COSTS (MTDC)										52,255	53,561	54,900	56,273	216,989
	PERCENTAGE RATE FOR INDIRECT COSTS										58.5%	58.5%	58.5%	58.5%	
	I. INDIRECT COSTS										30,569	31,333	32,117	32,920	126,939
	J. TOTAL DIRECT AND INDIRECT COSTS (H+I)										98,673	101,140	103,668	106,261	409,742
	L. AMOUNT OF REQUEST (J) OR (J-K)										98,673	101,140	103,668	106,261	409,742

Automatic Calculations -- DO NOT TOUCH

BASE SALARY TABLES

9/1/2019	9/1/2020	9/1/2021	9/1/2022	9/1/2023
YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
1.025	1.025	1.025	1.025	1.025
225,548	231,187	236,967	242,891	248,963
1.025	1.025	1.025	1.025	1.025
32,127	32,930	33,753	34,597	35,462
0	0	0	0	0
32,127	32,930	33,753	34,597	35,462

Scope of Work:

Use machine learning techniques to infer causality between transcription factors and genes by using the one set of cell types as steady state data sources for training and another set for test.