PROPOSAL BUDGET

YEAR- 2015

OFFEROR						
PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR (PI/PD) Matthous	D MacM	anos				
Mattic		anes				T
	Man	D.		3.6		Funds
A. SENIOR PERSONNEL, PI/PD, Co-PI's, Faculty and Other Senior Associates	Hrs/Mo	Rates		-Mos		Requested by
(List each separately with title, A.7, show number in parentheses) 1 Matthew D MacManes - PI	160	75 050	CAL	ACAD	SMR 2	Offeror 17,361.00
2.	100	75,850				17,501.00
3.						
4.						
5.						
6. () OTHERS (LIST INDIVIDUALLY ON BUDGET EXPLANATION)						
7. (1) TOTAL SENIOR PERSONNEL (1-6)						17361.00
B. OTHER PERSONNEL (SHOW NUMBERS IN PARENTHESES)						
1.() POST DOCTORAL ASSOCIATES						
2. () OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)						7000.00
3. (1) GRADUATE STUDENTS						7000.00
4. (1) UNDERGRADUATE STUDENTS						4500.00
5. () SECRETARIAL - CLERICAL (If charged directly)						
6. () OTHER 7. TOTAL SALARIES AND WAGES (A + B)						28,861.00
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						2,222
TOTAL SALARIES WAGES AND FRINGE BENEFITS (A + B + C)						31,084
D. PERMANENT EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EA	ACH ITEM	EXCEED	NG \$5,00	00.00.		
ATTACH						
ADDITIONAL EXPLANATION PAGES, IF NECESSARY.)						
TOTAL PERMANENT EQUIPMENT						
E. TRAVEL (LIST ON BUDGET EXPLANATION PAGE)						
1. DOMESTIC (INCLUDE CANADA MEXICO AND ILS POSSESSIONS) 2. FOREIGN						
F. PARTICIPANT SUPPORT COSTS						
1. STIPENDS \$						
2. TRAVEL						
3. SUBSISTENCE						
4. OTHER						
() TOTAL PARTICIPANT COSTS						
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES						63,500
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION						63,500
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES						63,500
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION						63,500
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER						63,500
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS						
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5 SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G)	Rase	7	Cotal			63,500 94584.00
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5 SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G)	Base		<u> </u>			
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Rate Overhead G&A	Base		'otal			
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS (A THROUGH G) INDIRECT COSTS Rate Overhead G&A Fringe	Base					
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL OTHER DIRECT COSTS (A THROUGH G) (INDIRECT COSTS (A THROUGH G) (INDIRECT COSTS (A THROUGH G) (Overhead G&A Fringe FOTAL INDIRECT COSTS	Base		· Cotal			94584.00
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS INDIRECT COSTS COVERNAGE Overhead G&A Fringe FOTAL INDIRECT COSTS L. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. FEE (%) BASE \$	Base	Γ	Sotal			94584.00
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS I INDIRECT COSTS I COVERNAD Overhead G&A Fringe TOTAL INDIRECT COSTS I TOTAL DIRECT AND INDIRECT COSTS (H + I) K. FEE (%) BASE \$ L. COST SHARING	Base		- Cotal			94584.00 44,927 139,511
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPLITER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS	Base			DATE		94584.00 44,927 139,511
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Rate Overhead G&A G&A Fringe TOTAL INDIRECT COSTS L. TOTAL DIRECT AND INDIRECT COSTS (H + 1)	Base			DATE	otemb	94584.00 44,927 139,511
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS COVERNA G&A Fringe TOTAL INDIRECT COSTS I. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. FEE (%) BASE \$ L. COST SHARING M. AMOUNT OF THIS REQUEST	Base			DATE DATE	otemk	94584.00 44,927 139,511

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PROPOSAL BUDGET



		20						
OFFEROR								
PRINCIPAL INVESTIGATOR/PROJECT	DIRECTOR (PI/PD)	Matthew D	MacMane	es				
			Man					Funds
A. SENIOR PERSONNEL, PI/PD, Co-PI's	Faculty and Other Senior	Associates	Hrs/Mo	Rates		-Mos		Requested b
	•	rissociates			CAL	ACAD	SMR	Offeror
List each separately with title A.7, show no 1. Matthew D MacManes	- Pl		160	75,850			2	17,882
2.								
3.								
4.								
5.								
6. () OTHERS (LIST INDIVIDUAL		NATION)						47.000
7. (1) TOTAL SENIOR PERSONNEL								17,882
B. OTHER PERSONNEL (SHOW NUMBE				T		1	1	
1.() POST DOCTORAL ASSOCIA								
2. () OTHER PROFESSIONALS (TI	<u>ECHNICIAN, PROGRAM</u>	MER, ETC.)						7,210
3. (1) GRADUATE STUDENTS	ITEC							4,635
4.(1) UNDERGRADUATE STUDEN								4,000
5. () SECRETARIAL - CLERICAL (I 6. () OTHER	charged directly)							
7. TOTAL SALARIES AND WAGES (Λ , D)							29,727
C. FRINGE BENEFITS (IF CHARGED AS								2,289
TOTAL SALARIES, WAGES AND FRI		- C)						32,016
D. PERMANENT EQUIPMENT (LIST IT	EM AND DOLLAR AMO	UNT FOR EA	ACH ITEM	EXCEED	ING \$5,0	00.00.		
ATTACH								
ADDITIONAL EXPLANATION PAGE	S, IF NECESSARY.)							
TOTAL PERMANENT EOUIPMENT								
E. TRAVEL (LIST ON BUDGET EXPLAN	NATION PAGE)							
1. DOMESTIC (INCLUDE CANADA	MEXICO. AND U.S. POS	SESSIONS)						2,500
2. FOREIGN								
F. PARTICIPANT SUPPORT COSTS								
1. STIPENDS \$								
2. TRAVEL								
3. SUBSISTENCE								
4. OTHER								
() TOTAL PARTICIPANT COST		TOTAL GEV						
G_OTHER DIRECT COSTS (ITEMIZE O 1. MATERIALS AND SUPPLIES	N BUDGET EXPLANAT	ION PAGE)						58,500
2. PUBLICATIONS COSTS/DOCUME	NTATION/DISSEMINAT	ΓΙΟΝ						1,800
3. CONSULTANT SERVICES								
4. COMPUTER (ADPE) SERVICES								
5 SUBAWARDS								
6. OTHER 7. TOTAL OTHER DIRECT COSTS								
H. TOTAL DIRECT COSTS (A THROUG	H G)							94,816
I INDIRECT COSTS		Rate	Base	-	Γotal			
	Overhead							
	G&A Fringe	-						
TOTAL INDIRECT COSTS	Fringe FCCM	1						45,038
L TOTAL DIRECT AND INDIRECT COS		<u> </u>		•				139,854
K. FEE (%) BASE \$								
L. COST SHARING								139,854
M. AMOUNT OF THIS REQUEST						DATE		· · ·
PI/PD NAME (TYPED) & SIGNATURE Matthew MacManes	X					DASept	embei	r 26 2014
	(EVDED) A GIGNATION	r						
OFFEROR'S AUTHORIZED REP. NAME	(TYPED) & SIGNATUR	E				DATE		
		10 4						

PROPOSAL BUDGET

YEAR- 2017



PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR (PI/PD) Matthew D M	acManes					
A. SENIOR PERSONNEL, PI/PD, Co-PI's, Faculty and Other Senior Associates	Man Hrs/Mo	Rates		-Mos		Funds Requested by
(List each separately with title, A.7, show number in parentheses) 1 Matthew D MacManes - Pl	160	75,850	CAL	ACAD	SMR 2	Offeror 18,419
1.	160	75,650		· ·		10,419
2.						
3.						
4.						
5.						
6. () OTHERS (LIST INDIVIDUALLY ON BUDGET EXPLANATION)						
7. (1) TOTAL SENIOR PERSONNEL (1-6)						18,419
B. OTHER PERSONNEL (SHOW NUMBERS IN PARENTHESES)						
1. () POST DOCTORAL ASSOCIATES						
2. () OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)						
3. (1) GRADUATE STUDENTS						25,021
4. (1) UNDERGRADUATE STUDENTS						4,774
5.() SECRETARIAL - CLERICAL (If charged directly)						
6.() OTHER						
7. TOTAL SALARIES AND WAGES (A + B)						48,214
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						2,358
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						50,572
D. PERMANENT EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EA	ACH ITEM	EXCEEDIN	G \$5.00	0.00.		
ATTACH			,			
ADDITIONAL EXPLANATION PAGES, IF NECESSARY.)						
TOTAL PERMANENT EOUIPMENT						
E. TRAVEL (LIST ON BUDGET EXPLANATION PAGE)						0.500
1. DOMESTIC (INCLUDE CANADA, MEXICO, AND ILS, POSSESSIONS)						2,500
2. FOREIGN						
F. PARTICIPANT SUPPORT COSTS						
1. STIPENDS \$						
2. TRAVEL						
3. SUBSISTENCE						
4. OTHER						
() TOTAL DADTICIDANT COSTS						
() TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE)						
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE)						37,000
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES						37,000 1,800
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE)						*
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION						*
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS						1,800
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER grad student tuition						*
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS						1,800 5,456
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G)						1,800
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Rate	Base	Tot	al			1,800 5,456
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Rate Overhead	Base	Tot	al			1,800 5,456
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Rate	Base	Tot	al			1,800 5,456 97,328
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Overhead G&A Fringe	Base	Tot	al			5,456 97,328 43,639
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Overhead G&A Fringe TOTAL INDIRECT COSTS	Base	Tot	al			1,800 5,456 97,328
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Overhead G&A Fringe TOTAL INDIRECT COSTS L. TOTAL DIRECT AND INDIRECT COSTS (H + 1)	Base	Tot	al			1,800 5,456 97,328 43,639
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Coverhead G&A Fringe TOTAL INDIRECT COSTS L. TOTAL DIRECT AND INDIRECT COSTS (H + 1) K. FEE (%) BASE \$	Base	Tot	al			5,456 97,328 43,639 140,966
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5. SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS COVERNA COVERNA G&A Fringe TOTAL INDIRECT COSTS I. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. FEE (%) BASE \$ L. COST SHARING M. AMOUNT OF THIS REQUEST	Base	Tot				1,800 5,456 97,328 43,639 140,966
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE) 1. MATERIALS AND SUPPLIES 2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES 5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS COVERHEAD G&A Fringe TOTAL INDIRECT COSTS L. TOTAL DIRECT AND INDIRECT COSTS (H + 1) K. FEE (%) BASE \$ L. COST SHARING	Base	Tot		DAT S ep	otem	5,456 97,328 43,639 140,966

I-3 - - **′**

, BUDGET



YEAR- Summary

OFFEROR						
PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR (PI/PD) Matthew D M	lacManes					
A. SENIOR PERSONNEL, PI/PD, Co-PI's, Faculty and Other Senior Associates	Man Hrs/Mo	Rates		-Mos	Funds Requested b	
(List each senarately with title. A.7. show number in parentheses)			CAL	ACAD	SMR	Offeror 53,662
1.					-	00,002
2.				+		
3.				+		
4.				-		
5.						
6. () OTHERS (LIST INDIVIDUALLY ON BUDGET EXPLANATION)						E2 662
7. () TOTAL SENIOR PERSONNEL (1-6)						53,662
3. OTHER PERSONNEL (SHOW NUMBERS IN PARENTHESES)				1	1	
1.() POST DOCTORAL ASSOCIATES						
2. () OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)						00.004
3. (3) GRADUATE STUDENTS						39,231
4. (³) UNDERGRADUATE STUDENTS						13,909
5. () SECRETARIAL - CLERICAL (If charged directly)						
6. () OTHER						
7. TOTAL SALARIES AND WAGES (A + B)						106,802
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						6,869
TOTAL SALARIES. WAGES AND FRINGE BENEFITS (A + B + C)						113,671
D. PERMANENT EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EA	CH ITEM I	EXCEEDII	NG \$5,00	0.00.		
ATTACH						
ADDITIONAL EXPLANATION PAGES, IF NECESSARY.)						
TOTAL DEDMANIENT FOLUDMENT						
TOTAL PERMANENT EQUIPMENT E. TRAVEL (LIST ON BUDGET EXPLANATION PAGE)						
1. DOMESTIC (INCLUDE CANADA MEXICO, AND U.S. POSSESSIONS)						5,000
2. FOREIGN						
F. PARTICIPANT SUPPORT COSTS						
1. STIPENDS \$						
2. TRAVEL						
3. SUBSISTENCE						
4. OTHER						
() TOTAL PARTICIPANT COSTS						
G. OTHER DIRECT COSTS (ITEMIZE ON BUDGET EXPLANATION PAGE)						159,000
1. MATERIALS AND SUPPLIES						3,600
2. PUBLICATIONS COSTS/DOCUMENTATION/DISSEMINATION						3,000
3. CONSULTANT SERVICES 4. COMPUTER (ADPE) SERVICES						
						5,456
5 SUBAWARDS 6. OTHER grad student tuition						
5 SUBAWARDS						
5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS						286,727
5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Rate	Base	То	otal			286,727
5 SUBAWARDS 6 OTHER grad student tuition 7 TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I INDIRECT COSTS Rate Overhead Overhead	Base	To	otal			286,727
5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS Rate Overhead G&A	Base	To	otal			286,727
5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS Rate Overhead G&A Fringe	Base	To	otal			286,727 133,604
5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS Rate Overhead G&A Fringe FOTAL INDIRECT COSTS FCCM	Base	То	otal			,
5 SUBAWARDS 6. OTHER	Base	To	otal			133,604
5 SUBAWARDS 6. OTHER grad student tuition 7. TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) INDIRECT COSTS	Base	To	otal			133,604 420,331
5 SUBAWARDS 6. OTHER	Base	To	otal			133,604
5 SUBAWARDS 6. OTHER	Base	To		DATE_	unto m	133,604 420,331 420,331
5 SUBAWARDS 6. OTHER	Base	To		DAT S e	ptem	133,604 420,331
5 SUBAWARDS 6. OTHER	Base	To		DATE DATE	ptem	133,604 420,331 420,331

I-4⁻⁻

Senior Personnel

PI MacManes is responsible for the genetic and bioinformatic components of this proposal. Specifically, he will oversee the design and execution of the genetic component AIM1 and AIM2, which involves extraction of RNA from tissue samples, generation of mRNA sequencing libraries, sequencing on the Illumina HiSeq 2500 platform, and all bioinformatic analysis. MacManes will train graduate students, and will interact with other project participants (undergraduate students). Two months of summer salary per year is requested for all three years of the project, during which 100% effort will be committed to this project. Salary is increased annually by 3% to account for inflation.

Other Personnel

3 years of summer salary (\$7,000 - 12 weeks, 40 hours per week), increased by 3% annually) and 1 year of academic year salary (\$17,595 - 32 weeks, 40 hours per week) are requested for a graduate student. The graduate student will conduct animal experiments, make sequencing libraries and perform bioinformatic analyses. The graduate student will be encouraged to travel to summertime scientific meetings, and will participate in other activities, which include interacting with the public and the mentoring of underrepresented groups. Manuscripts related to this project will be co-authored by the graduate student.

Funding is also requested for one undergraduate student per summer. This student, who will participate in research activities year-round, will be paid \$4,500 during the summer (10 weeks, 40 hours per week), and will receive University credit during the academic year.

Fringe Benefits

Fringe benefits for summer salaries are calculated at 7.7% per UNH's federally negotiated rates.

Travel

\$2,500 per year in years 2 and 3 is requested to cover travel to scientific conferences for the PI and graduate student. Both personnel will present findings related to this research project. While the location of conferences is variable and yet to be determined, they are typically held at a North American venue (previous locations include Raleigh, NC, Minneapolis MN, Portland, OR) during the month of June. An Internet search on Travelocity.com for flights during June 2015 to these destinations averages approximately \$400 per person round trip. Conference registration has historically been near \$350 per year per person, with hotel approximately \$100 per night per person for 5 nights.

Materials and Supplies

Funds are being requested for RNA/DNA extraction and Illumina sequencing library generation for approximately 240 samples (120 RNAseq, 120 Bisulfite seq - \$15,000, split over first 2 years). Funds are requested sequencing these libraries to a depth of approximately 30M 100nt paired-end sequencing reads each. Sequencing will be done at the UNH Hubbard Center for Genome Studies, a core facility of which PI MacManes is an affiliate. Based on current machine throughput, this is approximately 40 lanes of sequence data. The cost of sequencing will be: year 1 (\$35,000), year 2 (\$34,000), and year 3 (\$20,000). \$4000 is being requested for the purchase of five enterprise-grade 6TB hard drives and hard drive enclosure, which will serve as a secure storage backup of genomic data. \$2,000 per year is requested for maintenance of the large Linux workstation, located in the MacManes lab on which all genetic analyses will be done. Though this computer resource supports other ongoing research in the MacManes lab, the proposed work is expected to occupy a large amount of this computer's CPU time and storage capacity, which will allow multiple analyses to be done in parallel. The amount of money requested is proportional to its usage relative to other projects, and it far less expensive than

purchasing a comparable, dedicated system. \$10,000 per year is requested for general research lab supplies. \$5,000 per year is requested to cover animal care costs.

Publication Charges

\$1800 per year in years 2 and 3 is requested to cover fees relating to the publication of research results in peer-reviewed journals.

Tuition

Tuition for the graduate student, \$5456

Facilities and Administration

Facilities and Administration is charged at 47.5% of MTDC based on UNH's federally negotiated rate. (DHHS agreement dated 3/14/2014.)

COLLEGES AND UNIVERSITIES RATE AGREEMENT

EIN: 1026000618C4

ORGANIZATION:

University of New Hampshire

18 Garrison Avenue Durham, NH 03824 DATE:03/14/2014

FILING REF.: The preceding

agreement was dated

01/29/2013

The rates approved in this agreement are for use on grants, contracts and other agreements with the Federal Government, subject to the conditions in Section III.

SECTION 1	: INDIRECT C	OST RATES						
RATE TYPES	: FIXED	FINAL	PROV. (PR	OVISIONAL)	PRED.	(PREDETERMINED)		
	EFFECTIVE P	ERIOD						
TYPE	FROM	TO	RATE	(%) LOCATI	ON	APPLICABLE TO		
PRED.	07/01/2013	06/30/2014	47	.50 On-Cam	Research			
PRED.	07/01/2013	06/30/2014	26	.00 Off-Ca	mpus	Research		
PRED.	07/01/2013	06/30/2014	53	.50 On-Cam	pus	Instruction		
PRED.	07/01/2013.	06/30/2014	26	6.00 Off-Campus		Instruction		
PRED.	07/01/2013	06/30/2014	38	.20 On-Cam	pus	Other Sponsored Programs		
PRED.	07/01/2013	06/30/2014	26	.00 Off-Ca	mpus	Other Sponsored Programs		
PROV.	07/01/2014	Until Amended			race	Use the same rates and conditions as those cited for the fiscal year ending June 30, 2014.		

AGREEMENT DATE: 3/14/2014

*BASE

Modified total direct costs, consisting of all salaries and wages, fringe benefits, materials, supplies, services, travel and subgrants and subcontracts up to the first \$25,000 of each subgrant or subcontract (regardless of the period covered by the subgrant or subcontract). Modified total direct costs shall exclude equipment, capital expenditures, charges for patient care, student tuition remission, rental costs of off-site facilities, scholarships, and fellowships as well as the portion of each subgrant and subcontract in excess of \$25,000.

AGREEMENT DATE: 3/14/2014

SECTION	I: FRINGE BE	NEFIT RATES**		
TYPE	FROM	<u>TO</u>	RATE(%) LOCATION	APPLICABLE TO
FIXED	7/1/2013	6/30/2014	46.30 All	All Emp. (2,3,5,6)
FIXED	7/1/2013	6/30/2014	7.90 All	See Spec.Remarks (4)
FIXED	7/1/2013	6/30/2014	29.90 All	Post Doc Assoc. (8)
FIXED	7/1/2014	6/30/2015	38.50 All	All Emp. (2,3,5,6)
FIXED	7/1/2014	6/30/2015	7.70 All	See Spec.Remarks . (4)
FIXED	7/1/2014	6/30/2015	27.90 All	Post Doc Assoc. (8)
PROV.	7/1/2015	Until amended		Use same rates and conditions as those cited for fiscal year ending June 30, 2015.

** DESCRIPTION OF FRINGE BENEFITS RATE BASE: Salaries and wages.

See Special Remarks, (2) (3) (4) (5) (6) (8).

AGREEMENT DATE: 3/14/2014

SECTION II: SPECIAL REMARKS

TREATMENT OF FRINGE BENEFITS:

The fringe benefits are charged using the rate(s) listed in the Fringe Benefits Section of this Agreement. The fringe benefits included in the rate(s) are listed below.

TREATMENT OF PAID ABSENCES

Vacation, holiday, sick leave pay and other paid absences are included in salaries and wages and are claimed on grants, contracts and other agreements as part of the normal cost for salaries and wages. Separate claims are not made for the cost of these paid absences.

AGREEMENT DATE: 3/14/2014

(1) The rates in this Agreement have been negotiated to reflect the administrative cap provisions of the revisions to OMB Circular A-21 published by the Office of Management and Budget on May 8, 1996. No rate affecting the institution's fiscal period beginning on or after October 1, 1991 contains total administrative cost components in excess of that 26 percent cap.

- (2) Fringe benefit rate is not applicable to hourly wages, college work study wages, graduate student salaries, faculty summer salaries.
- (3) Fringe benefits include: Eye Care, Early retirement, Additional Retirement Contribution, Earned Time, University Fitness Program, Federal Retirement, Medical Coverage, Other Health Costs, Other Retirement, Other Salary Based, State Retirement, Social Security, Retirement Plan Premiums, Staff and Fac. Tuition Benefits, Workmen's Compensation, Faculty Summer Fellowships, Benefits Administration, ELF, Interim Disability, Sabbatical Leave Salaries and Compensated Absences.
- (4) Applicable to Non-Student hourly wages, faculty summer salaries and other exceptions to contract pay. The basic fringe benefit rate is also applicable to FICA eligible graduate student pay.
- (5) Applicable to the University System of New Hampshire.
- (6) Effective 7/1/99 tuition support for dependents of University of New Hampshire employees is no longer an allowable fringe benefit expense and is not included in the approved rates.
- (7) Effective 7/1/05 equipment means an article of nonexpendable, tangible personal property having a useful life of more than one year, and an acquisition cost of \$5,000 or more per unit.
- (8) Post Doctoral Research and Teaching Associates rate includes item (4) and applicable health benefits.

This rate agreement updates fringe benefit rates only.

AGREEMENT DATE: 3/14/2014

SECTION III: GENERAL

A. LIMITATIONS:

The rates in this Agreement are subject to any statutory or administrative limitations and apply to a given grant, contract or other agreement only to the extent that funds are available. Acceptance of the rates is subject to the following conditions: (1) Only costs incurred by the organization were included in its facilities and administrative cost pools as finally accepted: such costs are legal obligations of the organization and are allowable under the governing cost principles; (2) The same costs that have been treated as facilities and administrative costs are not claimed as direct costs; (3) Similar types of costs have been accorded consistent accounting treatment; and (4) The information provided by the organization which was used to establish the rates is not later found to be materially incomplete or inaccurate by the Pederal Government. In such situations the rate(s) would be subject to renegotiation at the discretion of the Federal

B. ACCOUNTING CHANGES:

This Agreement is based on the accounting system purported by the organization to be in effect during the Agreement period. Changes to the method of accounting for costs which affect the amount of reimbursement resulting from the use of this Agreement require prior approval of the authorized representative of the cognizant agency. Such changes include, but are not limited to, changes in the charging of a particular type of cost from facilities and administrative to direct. Failure to obtain approval may result in cost disallowances.

If a fixed rate is in this Agreement, it is based on an estimate of the costs for the pariod covered by the rate. When the actual costs for this period are determined, an adjustment will be made to a rate of a future year(s) to compensate for the difference between the costs used to establish the fixed rate and actual costs.

USE BY OTHER PRDERAL AGENCIES.

The rates in this Agreement were approved in accordance with the authority in Office of Management and Budget Circular A-21, and should be applied to grants, contracts and other agreements covered by this Circular, subject to any limitations in A above. The organization may provide copies of the Agreement to other Federal Agencies to give them early notification of the Agreement.

OTHER:

If any Federal contract, grant or other agreement is reimburging facilities and administrative costs by a means other than the approved rate(s) in this Agreement, the organization should (1) credit such costs to the affected programs, and (2) apply the approved rate(s) to the appropriate base to identify the proper amount of facilities and administrative costs allocable to these programs.

BY THE INSTITUTION:

+SUSTITUTION

ISTONATURE

University of New Hampshire

(AGENCY) (SIGNATURE) Darryl W. Mayes (HAME) Deputy Director, Division of Cost Allocation

ON BEHALF OF THE PEDERAL GOVERNMENT:

DEPARTMENT OF HEALTH AND HUMAN SERVICES

3/14/2014

(DATE) 0572

KHS REPRESENTATIVE:

Jeffrey Warren

Telephone:

(212) 264-2069

Page 6 of 6

Felony and Tax Certification

The University of New Hampshire is X is not an entity that has filed articles of incorporation in one of the fifty states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa.
For those applicants who indicate above that they are a corporation, by submitting the application that contains this certification, the applicant corporation is providing the following certification:
By submitting this application, the undersigned attests that <u>The University of New Hampshire</u> has not been convicted of a felony criminal violation under Federal or State law in the 24 months preceding the date of signature, nor has any officer or agent of <u>The University of New Hampshire</u> been convicted of a felony criminal violation under Federal or State law in the 24 months preceding the date of signature.
By submitting this application, the undersigned attests that <u>The University of New Hampshire</u> does not

have any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to

an agreement with the authority responsible for collecting the tax liability.