Public reporting burden for this collection of information is estimated to 35 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA (0925-0001). Do not send completed forms to this address.

Form Approved Through 8/31/2015				OM	B No. 0925-0001
Department of Health and Huma		LEAVE BLANK—F		ONLY.	
Public Health Service	S		tivity	Number	
Grant Applicat	ion	Review Group		Formerly	
Do not exceed character length restr	ctions indicated.	Council/Board (Mon	th, Year)	Date Received	I
TITLE OF PROJECT (Do not exceed 81 chara	cters, including spaces and p	unctuation.)			
RESPONSE TO SPECIFIC REQUEST FOR A     (If "Yes." state number and title)	PPLICATIONS OR PROGRA	M ANNOUNCEMENT	OR SOLICITA	ATION NO NO	] YES
Number: Title:					
3. PROGRAM DIRECTOR/PRINCIPAL INVESTIG	GATOR				
3a. NAME (Last, first, middle)		3b. DEGREE(S)		3h. eRA Commo	ns User Name
3c. POSITION TITLE		3d. MAILING ADDR	ESS (Street, c	ity, state, zip code	)
3e. DEPARTMENT, SERVICE, LABORATORY, O	R EQUIVALENT				
3f. MAJOR SUBDIVISION					
3g. TELEPHONE AND FAX (Area code, number of	and extension)	E-MAIL ADDRESS:			
TEL: FAX:					
4. HUMAN SUBJECTS RESEARCH ☐ No ☐ Yes	4a. Research Exempt ☐ No ☐ Yes	If "Yes," Exemption	No.		
4b. Federal-Wide Assurance No.	4c. Clinical Trial		4d. NIH-defined	d Phase III Clinica	l Trial
	☐ No ☐ Yes		□ No □ Ye	es	
5. VERTEBRATE ANIMALS \( \square\) No \( \square\) Yes		5a. Animal Welfare	Assurance No.		
6. DATES OF PROPOSED PERIOD OF	7. COSTS REQUESTED	FOR INITIAL		REQUESTED FOR	R PROPOSED
STIPPORT (month day vear_MM/DD/VV) From Through	7a. Direct Costs (\$)	7b. Total Costs (\$)	8a. Direct Cos	of SUPPORT sts (\$) 8b. Tota	al Costs (\$)
9. APPLICANT ORGANIZATION Name		10. TYPE OF ORGAPublic: →	ANIZATION Federal	State	Local
Address		Private: →	Private Nonp	orofit	
		For-profit: →	General	Small Busines	S
		Woman-owned		— .nd Economically [	Disadvantaged
		11. ENTITY IDENT			
		DUNS NO.		Cong. District	
12. ADMINISTRATIVE OFFICIAL TO BE NOTIFIE Name	D IF AWARD IS MADE	13. OFFICIAL SIGN Name	ING FOR APPL	LICANT ORGANIZ	'ATION
Title		Title			
Address		Address			
Tel: FAX:		Tel:		FAX:	
E-Mail:		E-Mail:			
14. APPLICANT ORGANIZATION CERTIFICATION AND the statements herein are true, complete and accurate to accept the obligation to comply with Public Health Service is awarded as a result of this application. I am aware that statements or claims may subject me to criminal civil or the complete of the complete of the complete of the complete or the comp	the best of my knowledge, and is terms and conditions if a grant any false, fictitious, or fraudulent	SIGNATURE OF OF (In ink. "Per" signatu			DATE

Use only if preparing an application with Multiple PDs/PIs. See http://grants.nih.gov/grants/multi\_pi/index.htm for details.

coo omy ii propaimig an approation mai mattipio i zon io	Too intering antoning origin	Tor detailer
Contact Program Director/Principal Investigator (Last, First, Midd	ile):	
3. PROGRAM DIRECTOR / PRINCIPAL INVESTIGATOR		
3a. NAME (Last, first, middle)	3b. DEGREE(S)	3h. NIH Commons User Name
3c. POSITION TITLE	3d. MAILING ADDRESS	(Street, city, state, zip code)
3e. DEPARTMENT, SERVICE, LABORATORY, OR EQUIVALENT		
3f. MAJOR SUBDIVISION		
3g. TELEPHONE AND FAX (Area code, number and extension)	E-MAIL ADDRESS:	
TEL: FAX:		
3. PROGRAM DIRECTOR / PRINCIPAL INVESTIGATOR		
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3c. POSITION TITLE	3d. MAILING ADDRESS	(Street, city, state, zip code)
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3g. TELEPHONE AND FAX (Area code, number and extension)	E-MAIL ADDRESS:	
TEL: FAX:		
3. PROGRAM DIRECTOR / PRINCIPAL INVESTIGATOR	-	
3a. NAME (Last, first, middle)	3b. DEGREE(S)	3h. NIH Commons User Name
3c. POSITION TITLE	3d. MAILING ADDRESS	(Street, city, state, zip code)
3e. DEPARTMENT, SERVICE, LABORATORY, OR EQUIVALENT		

3f. MAJOR SUBDIVISION	]	
3g. TELEPHONE AND FAX (Area code, number and extension)	E-MAIL ADDRESS:	
TEL: FAX:		
3. PROGRAM DIRECTOR / PRINCIPAL INVESTIGATOR	OF DEODEE(O)	Oh. NIII I O I I N
3a. NAME (Last, first, middle)	3b. DEGREE(S)	3h. NIH Commons User Name
3c. POSITION TITLE	3d. MAILING ADDRESS (Street	t city state zip ando)
SC. POSITION TITLE	30. MAILING ADDRESS (Silver	i, city, State, 21p code)
3e. DEPARTMENT, SERVICE, LABORATORY, OR EQUIVALENT		
3f. MAJOR SUBDIVISION		
3g. TELEPHONE AND FAX (Area code, number and extension)	E-MAIL ADDRESS:	
TEL: FAX:		
PHS 398 (Rev. 06/15 Approved Through 8/31/2015)		OMB No. 0925-0001
Face Page-conti	nued	Form Page 1-continued
Program Director/Principal Investigator (Last, First, Middle):		
PROJECT SUMMARY (See instructions):		
RELEVANCE (See instructions):		
PROJECT/PERFORMANCE SITE(S) (if additional space is needed, use Project	ct/Performance Site Format Page)	

Project/Performance Site Primary Location

Organizational Name:				
DUNS:				
Street 1:		Street 2:		
City:	County:		State:	
Province:	Country:		Zip/Postal Code:	
Project/Performance Site Congressional Districts:				
Additional Project/Performance Site Location				
Organizational Name:				
DUNS:				
Street 1:		Street 2:		
City:	County:		State:	
Province:	Country:		Zip/Postal Code:	
Project/Performance Site Congressional Districts:				
PHS 398 (Rev. 06/15 Approved Through 8/31/201	.5)	ge <u>2</u>		0925-0001
Program Director/Principal Investigate		ye <u>∠</u>	FU	rm Page 2
Program Director/Principal Investigate				
SENIOR/KEY PERSONNEL. See instructions. L Start with Program Director(s)/Principal Investigat	Jse continuation pages a for(s). List all other senio	as <i>needed</i> to provide the req	uired information in the format shown l cal order, last name first.	pelow.
• • • • • • • • • • • • • • • • • • • •	mmons User Name	Organization	Role on Project	
		-	•	
OTHER SIGNIFICANT CONTRIBUTORS				
Name	Organization		Role on Project	
Human Embryonic Stem Cells No	Yes			
If the proposed project involves human embryoni http://stemcells.nih.gov/research/registr				ng iist:
If a specific line cannot be referenced at this time, inc				

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Page 3

OMB No. 0925-0001 Form Page 2-continued

Number the following pages consecutively throughout

the application. Do not use suffixes such as 4a, 4b.

Program Director/Principal Investigator (Last, First, Middle):

The name of the program director/principal investigator must be provided at the top of each printed page and each continuation page.

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Bu	dgets Pertaining to Consortium/Contractual Arrangements	
Bio	ographical Sketch – Program Director/Principal Investigator (Not to exceed five pages each)	
Otł	ner Biographical Sketches (Not to exceed five pages each – See instructions)	
Re	sources	
Ch	ecklist	
Re	search Plan	
1.	Introduction to Resubmission Application, if applicable, or Introduction to Revision Application, if applicable *	
2.	Specific Aims *	
3.	Research Strategy *	
4.	Inclusion Enrollment Table (Renewal or Revision applications only)	
5.	Bibliography and References Cited/Progress Report Publication List	
6.	Protection of Human Subjects	
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9.	Inclusion of Children	
10.	Vertebrate Animals	
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12.	Multiple PD/PI Leadership Plan	
13.	Consortium/Contractual Arrangements	
14.	Letters of Support (e.g., Consultants)	
15	Resource Sharing Plan (s)	

Appendix (Five identical CD:	s.)								Check if Appendix is Included
* Follow the page limits for thes specifies otherwise.	e sections indica	ated in the	e applicat	ion instru	ctions, unles	s the Funding (	Opportunit	y Ann	nouncement
PHS 398 (Rev. 06/15 Approved Thro	ugh 8/31/2015)		Page _					OME	3 No. 0925-0001 Form Page 3
Program Director/Principa	al Investigator (Las	st, First, Mi							r orm r age o
DETAILED BUDG	SET FOR INIT			PERIO	D	FROM	-	THRO	UGH
List PERSONNEL (Applicant organiz Use Cal, Acad, or Summer to Enter I Enter Dollar Amounts Requested (or	Months Devoted to	) Project ry Requeste	ed and Fri	nge Benefi	ts				
NAME	ROLE ON PROJECT	Cal. Mnths	Acad. Mnths	Summer Mnths	INST.BASE SALARY	SALARY REQUESTED	FRING BENEFI		TOTAL
IVAIVIE	PD/PI	IVIIIIIII	IVIIIIIIS	IVIIIIIIS	SALART	REQUESTED	DEINEFI	13	TOTAL
	SUBTOTALS	 S							
CONSULTANT COSTS		<u> </u>							
EQUIPMENT (Itemize)									
SUPPLIES (Itemize by category)									
TRAVEL									
INPATIENT CARE COSTS									

OUTPATIENT CARE COSTS					
ALTERATIONS AND RENOVATIO	)NS (Itemize by catego	ory)			
OTHER EXPENSES (Itemize by c	xategory)				
CONSORTIUM/CONTRACTUAL C	COSTS			DIRECT COSTS	s
SUBTOTAL DIRECT COST	TS FOR INITIAL E	SUDGET PERIOD (	Item 7a, Face Page)		\$
CONSORTIUM/CONTRACTUAL C	COSTS		FACILITIES AND ADI	MINISTRATIVE COSTS	<i>à</i>
TOTAL DIRECT COSTS FO	OR INITIAL BUDG	ET PERIOD			\$
PHS 398 (Rev. 06/15 Approved Thr		Page			OMB No. 0925-00 Form Pag
	ncipal Investigator (Last,	·			
	BUDGET FOR E	ENTIRE PROPOS DIRECT COSTS		ERIOD	
BUDGET CATEGORY TOTALS	INITIAL BUDGET PERIOD (from Form Page 4)	2nd ADDITIONAL YEAR OF SUPPORT REQUESTED	3rd ADDITIONAL YEAR OF SUPPORT REQUESTED	4th ADDITIONAL YEAR OF SUPPORT REQUESTED	5th ADDITIONAL YEAR OF SUPPOR REQUESTED
PERSONNEL: Salary and fringe benefits. Applicant organization only.					
CONSULTANT COSTS					
EQUIPMENT					
SUPPLIES					
TRAVEL					
INPATIENT CARE COSTS					
OUTPATIENT CARE COSTS					
ALTERATIONS AND RENOVATIONS					
OTHER EXPENSES		!		'	Ī
DIRECT CONSORTIUM/ CONTRACTUAL COSTS					
SUBTOTAL DIRECT COSTS (Sum = Item 8a, Face Page)					
F&A CONSORTIUM/ CONTRACTUAL COSTS					
TOTAL DIRECT COSTS	1	,		,	1

${\tt JUSTIFICATION.} \ \ {\tt Follow} \ the \ {\tt budget} \ justification \ instructions \ {\tt exactly}.$	Use continuation pages as needed.	
PHS 398 (Rev. 06/15 Approved Through 8/31/2015)		OMB No. 0925-0001
F113 390 (Nev. 00/13 Approved Tillough 0/31/2013)	Page	Form Page 5
Program Director/Principal Investigator (Last, First, Middl	le):	
RE	SOURCES	
Follow the 398 application instructions in Part I, 4.7 Resources.		
.,		

CHECKLIST  TYPE OF APPLICATION (Check all that apply.)	
PHS 398 (Rev. 06/15 Approved Through 8/31/2015) Page Program Director/Principal Investigator (Last, First, Middle):	OMB No. 0925-000 Resources Format Pag
DUS 200 (Day 06/15 Approved Through 9/21/2015)	OMP No. 0005 000

RESUBMISSION of application	ation number:			
(This application replaces	a prior unfunded version	of a new, renewal, or revisi	on application.)	
RENEWAL of grant number	r·			
		d its current project period.)		
REVISION to grant number	er:			
(This application is for ad CHANGE of program direct		ent a currently funded grant	)	
Name of former program  CHANGE of Grantee Institu	director/principal investig			
FOREIGN application	Domestic Grant with fo	· ·	t Country(ies)	
INVENTIONS AND PATENTS	(Renewal appl. only)	□ No □ Yes		
		If "Yes,"	Previously reported \( \square\) Not previous	ly reported
• •	hether program income is	, ,	od(s) for which grant support is reques	t. If program income is
anticipated, use the format belo Budget Period		na source(s). Ited Amount	Source(s)	
Ŭ	·		( )	
	ions when applicable. Des ify compliance, where app	scriptions of individual assur licable, provide an explana		
DHHS Agreement dated:			No Facilities And Administrat	ve Costs Requested.
DHHS Agreement being ne	gotiated with		Regional Office.	
☐ No DHHS Agreement, but r	ate established with _		Date	
CALCULATION* (The entire gi	rant application, including	the Checklist, will be reprod	luced and provided to peer reviewers a	as confidential information.)
a. Initial budget period:	Amount of base \$	x Rate ap	olied % = F&A costs	\$
b. 02 year	Amount of base \$	x Rate ap	olied % = F&A costs	\$
c. 03 year	Amount of base \$	x Rate ap	olied % = F&A costs	\$
d. 04 year	Amount of base \$	x Rate ap	olied % = F&A costs	\$
e. 05 year	Amount of base \$	x Rate ap	olied % = F&A costs	\$
			TOTAL F&A Costs	\$
*Check appropriate box(es):  Salary and wages base		otal direct cost base	Other base (Explain	)
Off-site, other special rate,	or more than one rate inv	olved <i>(Explain)</i>		
Explanation (Attach separate s	sheet, if necessary.):			
4 DISCLOSURE DEDMISSIO	NI CTATEMENT. If this a	nalication does not recall in	an award is the Covernment nermitte	d to displace the title of
your proposed project, and the	name, address, telephone	e number and e-mail addres	an award, is the Government permitte so of the official signing for the applicar ossible collaborations, investment)?	
PHS 398 (Rev. 06/15 Approved	Through 8/31/2015)			OMB No. 0925-0001

IS 398 (Rev. 06/15 Approved Through 8/31/2015)

## PHS Inclusion Enrollment Report

rns inclusion Enrollment Report									OMB Number: 0925-0001 and 0925-0002				
This	s report	format s	hould no	t be used	d for c	ollecting da	ta from	study pa	rticipants				
*Study Title:													
*Delayed onset su	ıdy?	Yes	☐ No										
If study is not o	lelayed or	nset, the	following s	selections	are req	uired:							
Enrollmen	it Type			□ PI	anned	Cumulati	ve (Actua	l)					
Using an I	Existing D	ataset o	r Resource	Ye	es	☐ No							
Participar	nts Locati	on			omestic	☐ Foreign							
Clinical T	rial □Ye	es □No	NIH-De	fined Pha	ase III C	linical Trial?	Yes	s No	Trial Phas	Phase 0 Phase 1 Phase 1/2 Phase 2 Phase 2 Phase 2 Phase 3 Phase 4	2		
				Ethnic	Categ	ories							
	Not H	ispanic or	Latino	His	panic or	Latino	Unknow	n/Not Repo	orted Ethnicity				
Racial Categories	Female	Male	Unknown/ Not Reported	Female	Male	Unknown/ Not Reported	Female	Male	Unknown/ Not Reported	Total			
American Indian or	0	0	0	0	0	0	0	0	0	0			

				Ethnic	Categ	jories					
	Not H	ispanic o	r Latino	His	Hispanic or Latino			n/Not Rep	orted Ethnicity		
Racial Categories	Female	Male	Unknown/ Not Reported	Female	Male	Unknown/ Not Reported	Female	Male	Unknown/ Not Reported	Total	
American Indian or Alaska Native	0	0	0	0	0	0	0	0	0	0	
Asian	0	0	0	0	0	0	0	0	0	0	
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	0	0	0	0	0	
Black or African American	0	0	0	0	0	0	0	0	0	0	
White	0	0	0	0	0	0	0	0	0	0	
More than One Race	0	0	0	0	0	0	0	0	0	0	
Unknown or Not Reported	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	

DELETE REPORT NEXT REPORT

To ensure proper performance, please save frequently

## DO NOT SUBMIT UNLESS REQUESTED Renewal Applications Only ALL PERSONNEL REPORT

Always list the PD/PI(s). In addition, list all other personnel who participated in the project during the current budget period for at least one person month or more, regardless of the source of compensation (a person month equals approximately 160 hours or 8.3% of annualized effort). Use Cal, Acad, or Summer to Enter Months Devoted to Project.

Commons ID	Name	Degree(s)	SSN (last 4 digits)	Role on Project (e.g. PD/PI, Res. Assoc.)	DoB (MM /YY)	Cal	Acad	Summe
			35	( J. 1 = 11 1, 11001 710000)				

## Mailing address for application

Use this label or a facsimile

All applications and other deliveries to the Center for Scientific Review must come either via courier delivery or via the United States Postal Service (USPS.) Applications delivered by individuals to the Center for Scientific Review will not be accepted.

Applications sent via the USPS EXPRESS or REGULAR MAIL should be sent to the following address:

CENTER FOR SCIENTIFIC REVIEW
NATIONAL INSTITUTES OF HEALTH
6701 ROCKLEDGE DRIVE
ROOM 1040 – MSC 7710
BETHESDA, MD 20892-7710

NOTE: All applications sent via a courier delivery service (non-USPS) should use this address, but CHANGE THE ZIP CODE TO 20817

The telephone number is 301-435-0715. C.O.D. applications will *not* be accepted.

A special label for responding to RFAs is not required.