CIRM SEED – RFA 06-01

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Application #	Score	Cumulative Percentile	Title of Application	Requested Budget, Year1	Requested Budget, Total
RS1-00205-1	**96**	**0.4%**	Generation of forebrain neurons from human embryonic stem cells	$ 304,035	$ 612,075
RS1-00210-1	**95**	**0.9%**	The APOBEC3 Gene Family as Guardians of Genome Stability in Human Embryonic Stem Cells	$ 391,717	$ 777,467
RS1-00305-1	**95**	**1.3%**	Generation of hESC lines, under defined conditions, modeling normal & diseased states from material stored at the **REDACTED** shared embryo bank.	$ 319,000	$ 638,000
RS1-00288-1	**94**	**1.7%**	Gene regulatory mechanisms that control spinal neuron differentiation from hES cells.	$ 403,500	$ 807,749
RS1-00432-1	**93**	**2.2%**	Mitochondrial Dysfunction in Embryonic Stem Cells	$ 316,249	$ 632,500
RS1-00245-1	**92**	**2.6%**	Cellular epigenetic diversity as a blueprint for defining the identity and functional potential of human embryonic stem cells	$ 320,523	$ 641,047
RS1-00434-1	**92**	**3.0%**	Transcriptional Regulation of Human Embryonic Stem Cells	$ 308,830	$ 618,901
RS1-00365-1	**92**	**3.5%**	Profiling surface glycans and glycoprotein expression of human embryonic stem cells	$ 249,204	$ 498,409
RS1-00462-1	**91**	**3.9%**	MicroRNAs in Human Stem Cell Differentiation and Mental Disorders	$ 395,500	$ 791,000
RS1-00323-1	**91**	**4.3%**	Role of Chromatin Modifiers in Regulating Human Embryonic Stem Cell Pluripotency	$ 328,125	$ 658,126
RS1-00259-1	**91**	**4.8%**	Modeling Human Embryonic Development with Human Embryonic Stem Cells	$ 285,788	$ 571,575
RS1-00466-1	**91**	**5.2%**	Analysis of Candidate Neural Crest Cells Derived from Human ES Cells	$ 379,500	$ 759,000
RS1-00207-1	**91**	**5.6%**	Human Embryonic Stem Cell Differentiation to Trophoblast: Basic Biology and Clinical Translation to Improve Human Fertility	$ 319,574	$ 640,399
RS1-00404-1	**91**	**6.1%**	Patient-specific cells with nuclear transfer	$ 327,970	$ 656,074
RS1-00326-1	**91**	**6.5%**	In Vivo Molecular Magnetic Resonance Imaging of Human Embryonic Stem Cells in Murine Model of Myocardial Infarction	$ 328,125	$ 658,125
RS1-00298-1	**90**	**6.9%**	Functions of RB family proteins in human embryonic stem cells	$ 260,458	$ 520,777
RS1-00280-1	**90**	**7.4%**	Generation of long-term cultures of human hematopoietic multipotent progenitors from embryonic stem cells	$ 265,037	$ 538,211
RS1-00271-1	**90**	**7.8%**	Optimization of guidance response in human embryonic stem cell derived midbrain dopaminergic neurons in development and disease	$ 312,678	$ 633,170
RS1-00313-1	**90**	**8.2%**	Role of Mitochondria in Self-Renewal Versus Differentiation of Human Embryonic Stem Cells	$ 317,512	$ 635,024

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RS1-00198-1	**90**	**8.7%**	Specification of Ventricular Myocyte and Pacemaker Lineages Utilizing Human Embryonic Stem Cells	$ 321,249	$ 609,999
RS1-00228-1	**89**	**9.1%**	Derivation and Characterization of Cancer Stem Cells from Human ES Cells	$ 321,250	$ 642,500
RS1-00236-1	**88**	**9.5%**	Novel vectors for gene transfer into human ES cells	$ 317,811	$ 640,642
RS1-00163-1	**88**	**10.0%**	Programmed Cell Death Pathways Activated in Embryonic Stem Cells	$ 333,635	$ 734,202
RS1-00199-1	**88**	**10.4%**	Assessing the role of Eph/ephrin signaling in hESC growth and differentiation	$ 250,000	$ 499,999
RS1-00455-1	**88**	**10.8%**	Derivation and characterization of human ES cells from FSHD embryos	$ 316,251	$ 632,500
RS1-00319-1	**88**	**11.3%**	Reprogramming Differentiated Human Cells to a Pluripotent State	$ 323,006	$ 647,681
RS1-00327-1	**88**	**11.7%**	Self-renewal of human embryonic stem cells	$ 327,992	$ 663,209
RS1-00195-1	**88**	**12.1%**	Regulation of Specific Chromosomal Boundary Elements by CTCF Protein Complexes in Human Embryonic Stem Cells	$ 358,670	$ 678,788
RS1-00215-1	**87**	**12.6%**	Identifying small molecules that stimulate the differentiation of hESCs into dopamine-producing neurons	$ 279,099	$ 564,309
RS1-00243-1	**87**	**13.0%**	Differentiation of Human Embryonic Stem Cells to Intestinal Fates	$ 284,180	$ 578,943
RS1-00402-1	**86**	**13.4%**	Down-Regulation of Alloreactive Immune Responses to hES Cell-Derived Graft Tissues	$ 231,048	$ 469,219
RS1-00161-1	**86**	**13.9%**	MicroRNA Regulation of Human Embryonic Stem Cell Self-Renewal and Differentiation	$ 315,063	$ 631,831
RS1-00171-1	**85**	**14.3%**	Development of Neuro-Coupled Human Embryonic Stem Cell-Derived Cardiac Pacemaker Cells.	$ 365,139	$ 744,639
RS1-00420-1	**85**	**14.7%**	Improving microenvironments to promote hematopoietic stem cell development from human embryonic stem cells	$ 288,519	$ 577,037
RS1-00322-1	**85**	**15.2%**	In Vivo Imaging of Human Embryonic Stem Cell Derivatives and Tumorigenicity	$ 328,124	$ 658,123
RS1-00174-1	**85**	**15.6%**	A method to maintain and propagate pluripotent human ES cells	$ 397,810	$ 796,348
RS1-00289-1	**85**	**16.0%**	Stem Cell Survival and Differentiation Through Chemical Genetics	$ 247,223	$ 543,987
RS1-00444-1	**84**	**16.5%**	Role of the tumor suppressor gene, p16INK4a, in regulating stem cell phenotypes in embryonic stem cells and human epithelial cells.	$ 319,575	$ 639,150
*RS1-00170-1	**83**	**16.9%**	In vitro differentiation of hESCs into corticospinal motor neurons	$ 249,999	$ 500,000
*RS1-00249-1	**82**	**17.3%**	hESC as tools to investigate the neural crest origin of Ewing's sarcoma	$ 337,500	$ 675,001

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*RS1-00331-1	**82**	**17.7%**	Modeling Parkinson's Disease Using Human Embryonic Stem Cells	$ 379,500	$ 758,999
*RS1-00222-1	**81**	**18.2%**	Therapeutic potential of Retinal Pigment Epithelial cell lines derived from hES cells for retinal degeneration.	$ 342,092	$ 684,322
*RS1-00333-1	**81**	**18.6%**	Genetic manipulation of human embryonic stem cells and its application in studying CNS development and repair	$ 321,181	$ 642,361
*RS1-00409-1	**81**	**19.0%**	Human Embryonic Stem Cells and Remyelination in a Viral Model of Demyelination	$ 210,526	$ 425,594
*RS1-00453-1	**78**	**19.5%**	Hair Cells and Spiral Ganglion Neuron Differentiation from Human Embryonic Stem Cells	$ 234,663	$ 469,327
*RS1-00308-1	**72**	**19.9%**	Endodermal differentiation of human ES cells	$ 317,153	$ 635,242
*RS1-00247-1	**71**	**20.3%**	Development of human ES cell lines as a model system for Alzheimer disease drug discovery	$ 242,750	$ 492,750
RS1-00416-1	**83**	**20.8%**	Production of Oocytes from Human ES Cells	$ 307,531	$ 623,781
RS1-00449-1	**82**	**21.2%**	Force, Dimensionality and Stem Cell Fate	$ 309,067	$ 561,082
RS1-00302-1	**82**	**21.6%**	A Chemical Approach to Stem Cell Biology	$ 392,450	$ 784,900
RS1-00225-1	**82**	**22.1%**	New Chemokine-Derived Therapeutics Targeting Stem Cell Migration	$ 379,500	$ 759,000
RS1-00173-1	**81**	**22.5%**	Combinatorial Platform for Optimizing Microenvironments to Control hESC Fate	$ 319,177	$ 638,140
RS1-00169-1	**81**	**22.9%**	Discovering Potent Molecules with Human ESCs to Treat Heart Disease	$ 357,327	$ 714,654
RS1-00292-1	**81**	**23.4%**	Mapping the transcriptional regulatory elements in the genome of hESC	$ 344,089	$ 691,489
RS1-00200-1	**81**	**23.8%**	Role of Glycans in Human Embryonic Stem Cell Conversion to Neural Precursor Cells	$ 379,500	$ 759,000
RS1-00428-1	**80**	**24.2%**	Sources of Genetic Instability in Human Embryonic Stem Cells.	$ 176,980	$ 357,978
RS1-00172-1	**80**	**24.7%**	Genetic modification of the human genome to resist HIV-1 infection and/or disease progression	$ 321,326	$ 642,652
RS1-00452-1	**80**	**25.1%**	Induction of pluripotency in fibroblasts by fusion with enucleated human embryonic stem cell syncytia	$ 170,916	$ 342,962
RS1-00203-1	**79**	**25.5%**	Genetic Enhancement of the Immune Response to Melanoma via hESC-derived T cells	$ 321,250	$ 642,501
RS1-00317-1	**79**	**26.0%**	Role of HDAC in human stem cells pluripotentiality and differentiation	$ 395,499	$ 790,999

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RS1-00262-1	**78**	**26.4%**	Regulation of human neural progenitor cell proliferation by Ryk-mediated Wnt signaling	$ 327,432	$ 668,987
RS1-00283-1	**78**	**26.8%**	Trophoblast differentiation of human ES cells.	$ 368,740	$ 748,240
RS1-00381-1	**78**	**27.3%**	Labeling of human embryonic stem cells with iron oxide nanoparticles and fluorescent dyes for a non-invasive cell depiction with MR imaging and optical imaging	$ 251,088	$ 251,088
RS1-00387-1	**77**	**27.7%**	Predifferentiation of human embryonic stem cells for CNS cortical applications	$ 299,576	$ 607,085
RS1-00477-1	**77**	**28.1%**	Non-coding RNA as tool for the active control of stem cell differentiation	$ 297,734	$ 595,469
RS1-00183-1	**77**	**28.6%**	EC regeneration in cerebrovascular ischemia: role of NO	$ 328,125	$ 658,125
RS1-00157-1	**77**	**29.0%**	Physiological reactions to tumors in a mouse/hES cell model of brain cancer	$ 318,949	$ 637,912
RS1-00377-1	**77**	**29.4%**	The Immunological Niche: Effect of immunosuppressant drugs on stem cell proliferation, gene expression, and differentiation in a model of spinal cord injury.	$ 310,505	$ 619,223
RS1-00239-1	**77**	**29.9%**	Micro Platform for Controlled Cardiac Myocyte Differentiation	$ 190,045	$ 363,707
RS1-00242-1	**77**	**30.3%**	Technology for hESC-Derived Cardiomyocyte Differentiation and Optimization of Graft-Host Integration in Adult Myocardium	$ 315,670	$ 634,287
RS1-00413-1	**77**	**30.7%**	Using human embryonic stem cells to treat radiation-induced stem cell loss: Benefits vs cancer risk	$ 312,809	$ 625,617
RS1-00321-1	**76**	**31.2%**	Embryonic stem cell-derived thymic epithelial cells	$ 328,058	$ 658,057
RS1-00311-1	**76**	**31.6%**	Use of small organic molecules to enhance, control, and understand survival and self renewal of human embryonic stem cells in vitro	$ 302,267	$ 604,251
RS1-00464-1	**76**	**32.0%**	hESCs for Articular Cartilage Regeneration	$ 181,950	$ 367,650
RS1-00185-1	**75**	**32.5%**	Molecular Markers of Chondrogenesis	$ 311,963	$ 623,926
RS1-00408-1	**75**	**32.9%**	Screening for Oncogenic Epigenetic Alterations in Human ES Cells	$ 342,500	$ 685,000
RS1-00193-1	**75**	**33.3%**	Retinoic Acid-FGF Antagonism during Motor Neuron Differentiation of Human ES Cells	$ 379,500	$ 759,000
RS1-00180-1	**74**	**33.8%**	Retinal Pigment Epithelium Derived From Human Embryonic Stem Cells	$ 287,723	$ 574,422
RS1-00279-1	**74**	**34.2%**	Chromosome instability due to telomere loss in human embryonic stem cells	$ 307,847	$ 619,802
RS1-00295-1	**74**	**34.6%**	In Vitro Differentiation of T cells from Human Embryonic Stem Cells.	$ 250,000	$ 499,999

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RS1-00411-1	**74**	**35.1%**	The role of HER2 signaling in differentiation and maintenance of human embryonic stem cells	$ 351,863	$ 709,668
RS1-00232-1	**73**	**35.5%**	Role of Notch signaling in human embryonic stem cell differentiation to neuronal cell fates	$ 403,500	$ 807,751
RS1-00153-1	**73**	**35.9%**	Control of neural stem-to-progenitor transitions by Cyclin D family members in ES cells	$ 302,063	$ 636,488
RS1-00219-1	**73**	**36.4%**	Alteration of pre-mRNA splicing during stem cell differentiation	$ 307,510	$ 617,483
RS1-00360-1	**72**	**36.8%**	Micropallet Arrays to Screen and Select Stem Cells	$ 311,700	$ 622,450
RS1-00159-1	**72**	**37.2%**	Modeling leukemia stem cells using human ESC	$ 318,999	$ 637,999
RS1-00314-1	**71**	**37.7%**	An Integrated Microfluidic Platform for Screening hESC Culture Conditions	$ 307,643	$ 615,285
RS1-00221-1	**71**	**38.1%**	Elucidating Chemotropic Responses of Human Embryonic Stem Cells to Guidance Cues	$ 199,362	$ 399,348
RS1-00154-1	**NR**	**--**	Increasing the number and survival of hESC and the derived lineages in tissue culture.	---	---
RS1-00156-1	**NR**	**--**	Designing monitoring systems for beta-cell differentiation from ES cells	---	---
RS1-00160-1	**NR**	**--**	Human embryonic stem cells for repairing stroke injuries in hippocampal slices.	---	---
RS1-00162-1	**NR**	**--**	In Vitro Differentiation of Human ES cells to Endoderm for Engraftment in Lung	---	---
RS1-00164-1	**NR**	**--**	Induction of cardiogenesis in human stem cells via chromatin remodeling	---	---
RS1-00165-1	**NR**	**--**	Genome Replacement in Human Embryonic Stem Cells	---	---
RS1-00167-1	**NR**	**--**	Characterization of Immune Responses in Human Embryonic Stem Cells	---	---
RS1-00168-1	**NR**	**--**	Blood formation from human ES cells	---	---
RS1-00175-1	**NR**	**--**	Assessing efficacy and safety of retro- and lentiviruses as gene therapy vectors in human embryonic stem cells	---	---

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RS1-00177-1	**NR**	**--**	Prevalence and functional consequences of chromosomal mosaicism in hESC lines.	---	---
RS1-00178-1	**NR**	**--**	Pharmacological characterization of human stem cells and their differentiation via the GPCR transcriptome	---	---
RS1-00179-1	**NR**	**--**	High efficiency and high fidelity somatic cell nuclear reprogramming	---	---
RS1-00181-1	**NR**	**--**	SEED: Whole Stem Cell Sorting Using an All-Electronic Microfluidic System	---	---
RS1-00182-1	**NR**	**--**	Imaging and Tracking of Stem Cells In Vivo with Magnetic Particle Imaging	---	---
RS1-00184-1	**NR**	**--**	Nanotechnology Differentiation of Human Embryonic Stem Cells (hESCs)	---	---
RS1-00186-1	**NR**	**--**	Developing an Effective Stem Cell Gene Therapy to Treat Human Disease	---	---
RS1-00187-1	**NR**	**--**	Precursors isolated from human embryonic stem cell culture: potential use for kidney regeneration	---	---
RS1-00188-1	**NR**	**--**	Determining the Role of Mitochondria in the Regulation of Human Embryonic Stem Cells	---	---
RS1-00189-1	**NR**	**--**	Control of embryonic stem cell transcription by TGFb/Smad signaling	---	---
RS1-00190-1	**NR**	**--**	A human embryonic stem cell model for the development of CD30-positive Hodgkin lymphoma Reed-Sternberg cells (H-RS)	---	---
RS1-00192-1	**NR**	**--**	An Optimal Bioreactor For Production Of Erythrocytes From Human Embryonic Stem Cells	---	---
RS1-00201-1	**NR**	**--**	Regulation of human embryonic stem cell fate by different forms of the Polycomb transcriptional silencing machinery.	---	---
RS1-00208-1	**NR**	**--**	Mechanisms of hESC derived MSCs and BMSSCs to regenerate bone tissue	---	---
RS1-00209-1	**NR**	**--**	Development of the Stem Cell Matrix, a Shared Database of Stem Cell Information	---	---

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RS1-00211-1	**NR**	**--**	The Use of Microfluidic Chambers and Microtechnology to Study hESC-derived Neural Cells	---	---
RS1-00212-1	**NR**	**--**	Targeting lentiviral vectors to modified hES derived dendritic cells	---	---
RS1-00213-1	**NR**	**--**	Generation of Inherited Disease Human Embryonic Stem Cell Lines	---	---
RS1-00214-1	**NR**	**--**	Effects of small molecule libraries on differentiation of embryonic and neral stems cells in dopaminergic phenotype	---	---
RS1-00216-1	**NR**	**--**	Metabolomic Signatures of Pluripotent Cell Lines	---	---
RS1-00217-1	**NR**	**--**	Instructive Biomaterials for Stem Cell Differentiation	---	---
RS1-00218-1	**NR**	**--**	Manipulation of Hedgehog signaling in early human embryos	---	---
RS1-00223-1	**NR**	**--**	Identification and Analysis of Genome-wide Intra- and Inter-chromosomal Associations in Human Embryonic Stem Cells	---	---
RS1-00224-1	**NR**	**--**	Genetic analysis and modification of hES cells	---	---
RS1-00227-1	**NR**	**--**	Formation of Personalized Embryonic Stem-Like Cells by In Vitro Epigenetic Cell Reprogramming	---	---
RS1-00229-1	**NR**	**--**	Developing chicken embryos as an experimental microenvironment for human embryonic stem cells	---	---
RS1-00230-1	**NR**	**--**	Brain Aging and hESC-derived Neural Stem Cell Transplantation	---	---
RS1-00233-1	**NR**	**--**	Epigenetic regulation of AAVS1	---	---
RS1-00234-1	**NR**	**--**	Therapeutic potential of genetically modified human ES cells in an Alzheimer's disease model: Contribution of IGF-1	---	---
RS1-00237-1	**NR**	**--**	Characterization and Modulation of the Natural Antibody-Mediated Immune Response to Human Embryonic Stem Cells	---	---

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RS1-00240-1	**NR**	**--**	Analyzing myc function in human embryonic stem cells	---	---
RS1-00241-1	**NR**	**--**	Detection of Cell Lineages Among Stem Cell Progeny by microRNA Profiling	---	---
RS1-00246-1	**NR**	**--**	Stem Cell Lipid Organization	---	---
RS1-00250-1	**NR**	**--**	The Mammalian Stress Response and Human Embryonic Stem Cell Survival	---	---
RS1-00252-1	**NR**	**--**	Titanium Oxide Nanotube Platforms for Bioartificial Livers and for Transplantation of Hepatocytes Derived from Human Embryonic Stem Cells	---	---
RS1-00253-1	**NR**	**--**	Human embryonic stem cell-derived neurons as a model to discover safer estrogens for hot flashes	---	---
RS1-00254-1	**NR**	**--**	Therapeutic Potential of Transplanted human Embryonic Stem Cells Overexpressing Soluble APP in Treating Alzheimer's Disease	---	---
RS1-00256-1	**NR**	**--**	Therapeutic Potential of Human Embryonic Stem Cells: Cardiovascular Tissue Engineering	---	---
RS1-00258-1	**NR**	**--**	Derivation of Customized Stem Cells for Regenerative Medical Therapy	---	---
RS1-00260-1	**NR**	**--**	Stem Cell Transdifferentiation in the Testis	---	---
RS1-00261-1	**NR**	**--**	Analysis of the Mode of Division of Human Embryonic Stem Cells	---	---
RS1-00265-1	**NR**	**--**	Isolation of Human Lymphoid Progenitors and Induction to the B and T Cell Fates	---	---
RS1-00266-1	**NR**	**--**	Orthopaedic Applications of Human Embryonic Stem Cells.	---	---
RS1-00267-1	**NR**	**--**	Role of MYC and chromatin regulators in human embryonic stem cells	---	---
RS1-00269-1	**NR**	**--**	Interaction of BMP and polycomb pathways in human ES cell differentiation	---	---

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RS1-00270-1	**NR**	**--**	Functional endothelial cells from human embryonic stem cells for therapeutic vasculogenesis	---	---
RS1-00274-1	**NR**	**--**	A novel approach for pancreatic beta-cell differentiation in vitro and in vivo	---	---
RS1-00275-1	**NR**	**--**	Neurogenesis in Alzheimer's Disease: A-beta, Friend or Foe?	---	---
RS1-00276-1	**NR**	**--**	Derivation and characterization of dopamine neurons from human embryonic stem cells	---	---
RS1-00277-1	**NR**	**--**	Comprehensive study of the osteogenic potential of human embryonic stem cells - are they equivalent to liposuctioned fat and bone marrow derived stem cells?	---	---
RS1-00281-1	**NR**	**--**	The Role of Ion Channels in the Differentiation of Embryonic Stem Cells	---	---
RS1-00282-1	**NR**	**--**	The Role of NF-kappaB in Human Embryonic Stem Cell Survival and Differentiation	---	---
RS1-00287-1	**NR**	**--**	Paracrine factor-mediated stem cell differentiation to cardiac myocytes	---	---
RS1-00290-1	**NR**	**--**	High Throughput for Small Molecule Probes of hESC Pluriopotency	---	---
RS1-00294-1	**NR**	**--**	Differentiation, Survival, and Function of hESC-Derived Cardiomyocytes	---	---
RS1-00296-1	**NR**	**--**	Engineering pluripotent hESC-like cells by genetic reprogramming of differentiating cells	---	---
RS1-00297-1	**NR**	**--**	Isolation of coronary progenitor cells from hESC	---	---
RS1-00299-1	**NR**	**--**	Anesthetic Effects on Neural Stem Cells	---	---
RS1-00300-1	**NR**	**--**	Engineering Bioactive Hydrogels for Neuronal Differentiation of hESCs	---	---
RS1-00301-1	**NR**	**--**	Novel Reagents to Control Stem Cell Differentiation	---	---

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RS1-00303-1	**NR**	**--**	Characterization of human embryonic stem cells in vivo in the SCID-hu mouse model.	---	---
RS1-00304-1	**NR**	**--**	Role of Liver-Enriched Transcription Factors in Differentiation of Human ES Cells	---	---
RS1-00309-1	**NR**	**--**	The consequences of chromosome imbalance: using a trisomic human embryonic stem cell line to determine the primary defects in individuals trisomic for chromosome 13 (Patau syndrome)	---	---
RS1-00312-1	**NR**	**--**	Characterization of factors involved in the regulation of chromatin structure and human stem cell pluripotency	---	---
RS1-00315-1	**NR**	**--**	Derivation of Human Embryonic Stem Cell-Like Cells from the Testis	---	---
RS1-00318-1	**NR**	**--**	Molecular mechanisms of cell motility in human neural stem cells	---	---
RS1-00324-1	**NR**	**--**	Establishment of human Embryonic Stem Cell Models to Study the Impact of Alzheimer's Disease Mutant Genes on Neuronal Functions	---	---
RS1-00328-1	**NR**	**--**	Characterization of MicroRNA (miRNA) Functions in Human Embryonic Stem Cells (hESCs)	---	---
RS1-00329-1	**NR**	**--**	Role of Ion Channels in Self-renewal and Fate Decisions of Human Embryonic Stem Cells	---	---
RS1-00332-1	**NR**	**--**	Human stem cell-derived motor neurons as an experimental model for ALS	---	---
RS1-00334-1	**NR**	**--**	Role of PK2 on the differentiation of human neural stem cells and ischemia-induced neurogenesis	---	---
RS1-00335-1	**NR**	**--**	Reconstruction of Pathways involved in cardiomyocyte differentiation from embryonic stem cells	---	---
RS1-00336-1	**NR**	**--**	Defining Heterogeneity of Human Embryonic Stem Cells	---	---
RS1-00357-1	**NR**	**--**	Establishment of human embryonic stem cell lines using re-constructed human embryos derived from polyspermic eggs	---	---
RS1-00361-1	**NR**	**--**	Telomerase and self-renewal in human embyronic stem cells	---	---

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Application #	Score	Cumulative Percentile	Title of Application	Requested Budget, Year1	Requested Budget, Total
RS1-00367-1	**NR**	**--**	Magnetic Resonance Characteristics of CNS Changes Resulting from Targeted Human Embryonic Stem Cell Administration	---	---
RS1-00368-1	**NR**	**--**	A functional assessment of metabolic reconstruction in human embryonic stem cells	---	---
RS1-00371-1	**NR**	**--**	MHC-I suppression for long-term survival of hESC-derived oligodendrocytes and neurons	---	---
RS1-00372-1	**NR**	**--**	Genome-Wide High-Resolution Mapping of DNA Methylation in Human Embryonic Stem Cells	---	---
RS1-00373-1	**NR**	**--**	Generation of beta-cells from hepatocytes	---	---
RS1-00374-1	**NR**	**--**	Reversing age-imposed inhibition of stem cell regenerative potential	---	---
RS1-00376-1	**NR**	**--**	The control of cell movement and invasion in human embryoid bodies.	---	---
RS1-00378-1	**NR**	**--**	Exploring the Therapeutic Potential of Human Embryonic Stem Cells in Pediatric Neurotrauma	---	---
RS1-00379-1	**NR**	**--**	Cell-Cell Interactions Promote Differentiation of Human Embryonic Stem Cells to Insulin-Secreting Cells	---	---
RS1-00380-1	**NR**	**--**	Ovol genes and hES differentiation into hair-producing cells	---	---
RS1-00382-1	**NR**	**--**	Differentiation of Tooth Specific Cells	---	---
RS1-00383-1	**NR**	**--**	HLH Factors in Human Embryonic Stem Cells	---	---
RS1-00384-1	**NR**	**--**	Use of Human Embryonic Stem Cells for the Study of Myelin Regeneration	---	---
RS1-00385-1	**NR**	**--**	Engineering system platforms for human stem cell maintenance and differentiation	---	---
RS1-00388-1	**NR**	**--**	New Strategies to Understand Reprogramming Events in the Donor Nuclei Following Somatic Cell Nuclear Transfer	---	---

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RS1-00389-1	**NR**	**--**	Adhesion Molecule Function in Human Hematopoietic Development	---	---
RS1-00392-1	**NR**	**--**	Stress response signaling pathways in hESCs	---	---
RS1-00394-1	**NR**	**--**	Directed Vasculogenic and Cardiogenic Differentiation of Embryonic Stem Cells	---	---
RS1-00395-1	**NR**	**--**	Differentiation of Stem Cells into 'Systems of Neurotransmitter' Phenotypes Related to Alzheimer's and Huntington's Diseases: Application of High Throughput Peptidomic Approaches with Mass Spectrometry	---	---
RS1-00397-1	**NR**	**--**	Proteome-wide Profiling of Ubiquitination and Sumoylation in Human Embryonic Stem Cells	---	---
RS1-00398-1	**NR**	**--**	Study of TBX3 Function in human Embryo Stem (hES) Cell Differentiation and Identification of Genome-Wide TBX3 Promoter Binding-Sites with the CHIP-GLAS Promoter Array	---	---
RS1-00399-1	**NR**	**--**	Characterizing and identifying hESCs and their derivatives by Raman imaging	---	---
RS1-00400-1	**NR**	**--**	Engineered Manipulations of Human Embryonic Stem Cells Using Nano-Needles and Nano-Particles	---	---
RS1-00403-1	**NR**	**--**	Gene Targeting in Human ES Cells	---	---
RS1-00405-1	**NR**	**--**	Molecular Analysis of microRNAs in Pancreas Development	---	---
RS1-00406-1	**NR**	**--**	Assessment of the Immune Potential of Human Embryonic Stem Cells	---	---
RS1-00407-1	**NR**	**--**	Targeted Differentiation of Novel hESC Lines for Bladder Tissue Engineering Applications	---	---
RS1-00412-1	**NR**	**--**	Developmental Regulation of Human Embryonic Stem Cells by microRNAs	---	---
RS1-00414-1	**NR**	**--**	Treating Stress Urinary Incontinence with Human Embryonic Stem Cells	---	---
RS1-00417-1	**NR**	**--**	Derivation and Epigenomic Analysis of hES Cells	---	---

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RS1-00418-1	**NR**	**--**	Stem cell therapy on hypertension: A potential source and role of nNOS in brainstem	---	---
RS1-00419-1	**NR**	**--**	3D_SpineTracker - Automated remyelination detection and classification of axons for sub-acutely injured spinal cord section images for temporal tracking of remyelination after stem cell treatment	---	---
RS1-00421-1	**NR**	**--**	Optimized hESC Cultures Using Microfluidics	---	---
RS1-00422-1	**NR**	**--**	Development of Blood and Liver Stem Cells from Embryonic Stem Cells	---	---
RS1-00425-1	**NR**	**--**	hESC mitochondrial transfer to empower withered cardiomyocytes	---	---
RS1-00427-1	**NR**	**--**	Human Embryonic Stem Cell Therapy for Retinal Degeneration	---	---
RS1-00429-1	**NR**	**--**	Treatment of Lung Disease with Inhaled Stem Cells	---	---
RS1-00431-1	**NR**	**--**	Differentiation of Human Embryonic Stem Cells to Heart Cells	---	---
RS1-00435-1	**NR**	**--**	Derivation of New Human Embryonic Cell Lines in Full Compliance with Current FDA Regulatory Guidance	---	---
RS1-00436-1	**NR**	**--**	Fate and connectivity of HESCs in temporal lobe disorders.	---	---
RS1-00439-1	**NR**	**--**	Proteomics of the Oxidative Stress Response in Embryonic Stem Cells	---	---
RS1-00440-1	**NR**	**--**	Optimizing human embryonic stem cell-derived neural stem/progenitor cells for stroke cell therapy	---	---
RS1-00441-1	**NR**	**--**	Selecting Embryonic Cell-Derived Cardiomyocytes by Specific Surface Marker	---	---
RS1-00442-1	**NR**	**--**	Integrin ligation in human ESC (hESC) proliferation and fate determination	---	---
RS1-00450-1	**NR**	**--**	Control of Herpes Simplex Virus latency by cellular DNA repair proteins	---	---

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Application #	Score	Cumulative Percentile	Title of Application	Requested Budget, Year1	Requested Budget, Total
RS1-00451-1	**NR**	**--**	Development of a novel human embryonic stem cell (hESC) model of familial amyotrophic lateral sclerosis (ALS)	---	---
RS1-00457-1	**NR**	**--**	Role of RXR in Nurr1-induced Differentiation of Human ES Cells and in Parkinson's Disease	---	---
RS1-00458-1	**NR**	**--**	Human Embryonic Stem Cells and Neural Crest Plasticity	---	---
RS1-00461-1	**NR**	**--**	MicroRNAs in Human Embryonic Stem Cell Self-Renewal and Differentiation	---	---
RS1-00463-1	**NR**	**--**	Alternative splicing during neural differentiation of human embryonic stem cells.	---	---
RS1-00465-1	**NR**	**--**	A novel live study in a 3-D microfluidic model using multicolored quantum dot(QD) tagged probes: for imaging multiple protein(s) interactions whether activators/inhibitors or " bind / non-bind " using surface-enhanced Raman spectroscopy (SERS), multi	---	---
RS1-00468-1	**NR**	**--**	Genetic manipulation of human embryonic stem cells by lentiviral vectors.	---	---
RS1-00469-1	**NR**	**--**	Directed differentiation of hES cells into the heart valve lineage	---	---
RS1-00470-1	**NR**	**--**	Creating Human Embryonic Stem Cell Lines Containing Multiple Sclerosis Genomes via Cell Fusion	---	---
RS1-00471-1	**NR**	**--**	Effect of Tumor Necrosis Factor Alpha on Stem Cell Fate Determination in the Central Nervous System	---	---
RS1-00472-1	**NR**	**--**	Modulation of Stem Cell PTHrP/Wnt Signaling to Prevent Chronic Lung Disease	---	---
RS1-00473-1	**NR**	**--**	Regenerative CF Airway Epithelium by Embryonic Stem Cells	---	---
RS1-00474-1	**NR**	**--**	Pericellular proteolysis in human ES cell differentiation and tumorigenesis	---	---
RS1-00480-1	**NR**	**--**	Regulation of apoptosis during endocrine development	---	---