State/Country	PI	Institution	Project	Award Total
Arizona				\$1,514,188.00
	BOERWINKLE, VARINA	CHILDREN'S HOSPITAL, PHOENIX	Resting State Functional MRI Finds Correct Surgical Target to Stop Seizures in Tuberous Sclerosis Complex	\$746,999.00
2016	NARAYANAN, VINODH	TRANSLATIONAL GENOMICS RESEARCH INSTITUTE (TGEN)	Phenotypic Variability in Tuberous Sclerosis Complex (TSC)	\$767,189.00
California				\$9,790,393.00
2021	MCDONALD, NICOLE M	CALIFORNIA, UNIVERSITY OF, LOS ANGELES	Assessment and Treatment of Behavior Problems in TSC at Preschool Age: A Telehealth Approach	\$1,167,408.00
2021	DIAZ, BEGONA	LUNDQUIST INSTITUTE FOR BIOMEDICAL INNOVATION AT HARBOR-UCLA MEDICAL CENTER	Investigating Novel Targetable Vulnerabilities of LAM Disease	\$231,150.00
2020	LEE, GINA	CALIFORNIA, UNIVERSITY OF, IRVINE	Mechanistic Understanding of m6A Signaling for the Treatment of TSC and LAM	\$706,500.00
2019	KASARI, CONNIE	CALIFORNIA, UNIVERSITY OF, LOS ANGELES	TSC Remote Assessment and Intervention (TRAIN)	\$922,647.00
2018	TZANNIS, STELIOS	DELOS PHARMACEUTICALS, INC.	Development of Novel, Highly mTORC1 Selective Inhibitors for the Treatment of Tuberous Sclerosis	\$472,028.00
2016	SHI, WEI	CHILDREN'S HOSPITAL LOS ANGELES	Mechanisms of Pulmonary Lesions in TSC LAM	\$749,250.00
2015	RUBENSTEIN, JOHN L	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	Functional Impact of TSC1 Mutations on the Development and Maturation of Inhibitory Cortical Neurons	\$950,181.00
2014	JESTE, SHAFALI S	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Early Behavioral Intervention to Improve Social Communication Function in Infants with TSC	\$267,508.00
2012	guan, kun-liang	UNIVERSITY OF CALIFORNIA, SAN DIEGO	Crosstalk between mTORC1 and cAMP Signaling	\$658,750.00
2012	LIPTON, STUART A		Application of FDA-Approved Memantine and Newer NitroMemantine Derivatives to Treat Neurological Manifestations in Rodent Models of Tuberous Sclerosis Complex	\$195,000.00
2012	SHAW, RUEBEN	SALK INSTITUTE	Defining the Role of Autophagy Kinase ULK1 Signaling in Therapeutic Response of Tuberous Sclerosis Complex to mTOR Inhibitors	\$816,000.00
2008	guan, kun-liang	UNIVERISTY OF CALIFORNIA, SAN DIEGO	Regulation of mTOR by Nutrients	\$675,002.00
2006	KRIEGSTEIN, ARNOLD	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	The Role of Tuberin and Hamartin in Cortical Neuron Migration	\$616,467.00
2006	SCHAFFER, DAVID	UNIVERSITY OF CALIFORNIA, BERKELEY	Tuberous Sclerosis Signaling in Adult Neurogenesis	\$101,840.00
2005	BARABAN, SCOTT C	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	A Morpholino Strategy to Assess TSC Gene Function in Zebrafish	\$99,999.00
2005	BOSS, GERRY R	UNIVERSITY OF CALIFORNIA, SAN	Development of an Assay to Measure the Activation State of Rheb, the Downstream Target of TSC1/2, in Animal and Human Cells and Tissue	\$224,000.00
2005	STOKOE, DAVID	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	Identification of Translationally Regulated mRNAs and UTR Sequences by TSC1 and TSC2	\$100,000.00
2004	TAMANOI, FUYUHIKO	UNIVERSITY OF CALIFORNIA, LOS ANGELES	A Genetic Approach to Define the Importance of Rheb in Tuberous Sclerosis	\$411,672.00
2003	STOKOE, DAVID	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	The Role of GSK3 in Regulating Hamartin Phosphorylation and Activity in Response to Nutrients and Growth Factors	\$424,991.00

State/Country	PI	Institution	Project	Award Total
Colorado				
	SU, TIN TIN	UNIVERSITY OF COLORADO,	Identification of Small Molecule Suppressors of Tsc Mutant	\$237,967.00 \$141,737.00
2009		BOULDER	Phenotypes in Drosophila	\$141,737.00
2005	SU, TIN TIN	UNIVERSITY OF COLORADO,	Drosophila as a 3-D Model System to Screen for Anti-Tuberous	\$96,230.00
2005		BOULDER	Sclerosis Therapeutics	\$90,230.00
Connecticut		BOOEDEIX		\$2,392,571.00
	BORDEY, ANGELIQUE	YALE UNIVERSITY	Exosome Contribution to Social Deficits in TSC	\$752,681.00
	BORDEY, ANGELIQUE	YALE UNIVERSITY	Epilepsy Causes and Treatment in TSC	\$697.777.00
	BORDEY, ANGELIQUE	YALE UNIVERSITY	Understanding the Etiology of Tuberous Sclerosis Complex	\$734,763.00
	SUN, ZHAOXIA	YALE UNIVERSITY	TSC1 and the Cilium in Zebrafish Kidney Development	\$110,550.00
	SQUILLACE, RACHEL M	THE ROTHBERG INSTITUTE FOR	Generation of in Vitro Cellular Models of	\$96,800.00
2004	SQUILLAGE, RACHEL M			\$90,000.00
		CHILDHOOD DISEASES	Lymphangioleiomyomatosis for the Development of Tuberous	
			Sclerosis Therapeutics	\$0 7 0.004.00
District of Colum			Treatment of Enilency in Typercy Colonaria Compley by	\$273,001.00
2022	TORII, MASAAKI	CHILDREN'S RESEARCH INSTITUTE	Treatment of Epilepsy in Tuberous Sclerosis Complex by	\$273,001.00
		AT CNMC	Interneuron Progenitor Transplantation	<u> </u>
Georgia				\$695,969.00
2018	WEN, ZHEXING	EMORY UNIVERSITY	Modeling TSC and Translating for Therapeutics with Human	\$695,969.00
			Cerebral Organoids	
llinois				\$2,584,655.17
2022	AUERBACH, BENJAMIN D	ILLINOIS, UNIVERSITY OF,	Using Sensory Processing to Identify Neural Circuit Deficits and	\$237,899.00
		CHAMPAIGN/URBANA	Novel Treatment Strategies in a Rat Model of TSC	
2020	YOSHII, AKIRA	ILLINOIS, UNIVERSITY OF, AT	Developing a Novel Therapy for Neurological Symptoms of	\$714,620.00
		CHICAGO	Tuberous Sclerosis Complex	
2017	LE POOLE, ISABELLE	NORTHWESTERN UNIVERSITY	Toward Chimeric Antigen Receptor Transgenic T Cell Therapy	\$720,118.17
			for Tuberous Sclerosis Complex	
	LE POOLE, ISABELLE	LOYOLA UNIVERISTY CHICAGO	Developing Immunotherapeutic Options for TSC	\$797,643.00
2008	WEI, JIAN-JUN	NORTHWESTERN UNIVERSITY	Repression of TSC2 Expression by miR-296 in Human Normal	\$114,375.00
			and Tumor Tissues	
ndiana				\$964,386.00
	QUILLIAM, LAWRENCE A	INDIANA UNIVERSITY, INDIANAPOLIS	Targeting ER Stress to Treat TSC	\$689,386.00
2004	CASTRO, ARIEL F	INDIANA UNIVERSITY	Functional Relevance of the Ras-Related GTPase Rheb in	\$275,000.00
			Tuberous Sclerosis	
owa				\$112,500.00
2008	HOHL, RAYMOND J	UNIVERISTY OF IOWA	Potential Contribution of the FOXO-Regulated Cell Cycle	\$112,500.00
			Inhibitor, Cyclin G2, to Growth Control in Tuberous Sclerosis	
laryland				\$3,026,666.00
2021	LOTAN, TAMARA	JOHNS HOPKINS UNIVERSITY	Exploring and Leveraging Therapeutic Vulnerabilities in Renal	\$818,750.00
			Tumors with TSC1/2 Loss	
2019	LIN, DORIS DA MAY	JOHNS HOPKINS UNIVERSITY	Mapping of Brain GABA Levels in Tuberous Sclerosis Complex	
			Using High-Resolution Proton MR Spectroscopic Imaging	\$897,716.00
2018	ASRANI, KAUSHAL	JOHNS HOPKINS UNIVERSITY	mTORC1 Regulates MiTF Expression and Lysosomal	\$163,750.00
			Biogenesis	
2011	LOTAN, TAMARA	JOHNS HOPKINS UNIVERSITY	Role of TSC1/2 and mTOR Signaling in Epidermal Cell	\$162,000.00
	,		Differentiation	,,
2008	DARLING, THOMAS N	UNIFORMED SERVICES UNIVERSITY	Targeting Angiogenesis and Lymphangiogenesis in Tuberous	\$684,450.00
_500		OF THE HEALTH SCIENCES/HENRY M.	Sclerosis Complex	÷ 50 1, 100.00
		JACKSON FOUNDATION		
2005	XIAO, BO	JOHNS HOPKINS UNIVERSITY	Aberrant Glutamate Signaling and Tumor-Like Growth of	\$100,000.00
2000		SCHOOL OF MEDICINE	Astrocytes in TSC	φ100,000.00

State/Country	PI	Institution	Project	Award Total
Maryland continu				
	XIAO, BO	JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE	Rheb in the Pathogenesis of Seizures in TSC	\$100,000.00
2004	XIAO, BO	JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE	Driving the Formation of Tuberous Sclerosis Complex by Creating Conditional Rheb Transgenic Mice	\$100,000.00
Massachusetts				\$25,894,685.0
	PRIOLO, CARMEN	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Targeting Mitochondrial Metabolism in Tuberous Sclerosis Complex	\$855,709.00
	ALESI, NICOLA	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Role of the Secreted Factor CTHRC1 in the Pathogenesis of TSC	\$253,636.00
	BREAKEFIELD, XANDRA O	MASSACHUSETTS GENERAL HOSPITAL	Can EVs Expand the Therapeutic Effect of Gene Replacement for Tsc1 in Brain?	\$726,382.00
	KWIATKOWSKI, DAVID	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Targeting TSC by mTORC1-Specific Bi-Steric Inhibitors	\$857,947.00
	TANG, YAN	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Tumor-Targeting Lipid Nanoparticle-Based siRNA Therapy for TSC	\$249,670.00
2020	SAHIN, MUSTAFA	CHILDREN'S HOSPITAL, BOSTON	The Contribution of Rapamycin-Insensitive Processes to Neurological Symptoms in TSC	\$796,500.00
2020	WEISSMAN, JONATHAN	WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH	Toward Pharmacological Rescue of TSC Loss of Function	\$292,500.00
2020	LIU, HENG-JIA	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Therapeutic Targeting of the Immune Checkpoint Molecule B7- H3 in TSC	\$260,892.00
2019	KWIATKOWSKI, DAVID	BRIGHAM AND WOMEN'S HOSPITAL,	Targeting mTOR/JUN/AXL Axis in TSC Tumors	\$262,652.00
2018	TANG, YAN	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Dissecting Mechanisms of Immune Suppression in Tuberous Sclerosis Complex (TSC) by Integrative Single Cell Profiling of Tumor-Microenvironment Interaction	\$179,000.00
2018	EL-CHEMALY, SOUHEIL	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Targeting the Angiotensin Receptor in TSC	\$748,620.00
2017	LIPTON, JONATHAN	CHILDREN'S HOSPITAL, BOSTON	Targeting Circadian Clock Proteostasis as a Novel Therapeutic Strategy in Tuberous Sclerosis Complex	\$796,500.00
2017	MANNING, BRENDAN	HARVARD UNIVERSITY	Mapping the Routes to Tumor Cell Death in TSC	\$717,750.0
2017	PERRIMON, NORBERT	HARVARD UNIVERSITY	An Evolutionary Approach to Vulnerability Mapping in Order to Identify Alternative and Synergistic Therapeutic Strategies for TSC and Related Diseases	\$739,125.0
2017	ZAREI, MAHSA	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Targeting Transcriptional Addiction for the Treatment of TSC	\$222,751.0
2016	BELAID, AMINE	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Targeting Folate-Dependent Metabolic Pathways for the Treatment of TSC	\$253,850.0
2016	EL-CHEMALY, SOUHEIL	BRIGHAM AND WOMEN'S HOSPITAL, INC.	LAMP: The LAM Microbiome Project	\$235,000.0
2016	FELDMAN, ADAM S	MASSACHUSETTS GENERAL HOSPITAL	Evaluation of Lipid Poor Renal Masses with Magnetic Resonance Spectroscopy in Tuberous Sclerosis Complex	\$342,000.0
2016	HENSKE, ELIZABETH	BRIGHAM AND WOMEN'S HOSPITAL, INC.	T Cell Dysfunction in TSC: Mechanisms and Targeted Therapy	\$628,989.0
2016	GOLDBERG, MARCIA B	MASSACHUSETTS GENERAL HOSPITAL	Toward Novel Therapeutics for TSC and LAM: Using Mechanisms of a Bacterial Protein to Sensitize Cells to Rapamycin	\$327,437.00

tate/Country	PI	Institution	Project	Award Total
lassachusetts co				
	GIANNIKOU, KRINIO	BRIGHAM AND WOMEN'S HOSPITAL, INC.	Epigenetic Analysis of TSC Tumors to Identify Novel Therapeutic Targets	\$266,250.0
2015	BREAKEFIELD, XANDRA O	MASSACHUSETTS GENERAL HOSPITAL	Systemic Gene Therapy for Tuberous Sclerosis	\$240,037.0
2015	HOUSDEN, BENJAMIN	HARVARD UNIVERSITY	A Unique Opportunity for TSC: Repurposing FDA-Approved Drugs Using a Unique Combinatorial Screening Strategy	\$254,048.0
2015	PRIOLO, CARMEN	BRIGHAM AND WOMEN'S HOSPITAL	Novel Metabolic Biomarkers in Tuberous Sclerosis Complex	\$250,633.0
2015	ZHANG, WEI	JUVOBIO PHARMACEUTICALS INC.	Human-Induced Pluripotent TSC1 and TSC2 Mutant Stem Cell- Derived Neuronal Assays for Mechanistic Studies and Therapeutics Development	\$164,998.0
2014	HENSKE, ELIZABETH P	BRIGHAM AND WOMEN'S HOSPITAL	Role of MicroRNA in the Pathogenesis and Treatment of TSC	\$803,679.00
	KWIATKOWSKI, DAVID J	BRIGHAM AND WOMEN'S HOSPITAL	COLA: A Pilot Clinical Trial of COX-2 Inhibition in LAM and TSC	\$344,582.00
	HENSKE, ELIZABETH P	BRIGHAM AND WOMEN'S HOSPITAL	Catalyzing Translational TSC Research: Novel LAM and AML Cell Culture Models	\$177,375.00
	RAMESH, VIJAYA	MASSACHUSETTS GENERAL HOSPITAL	Patient-Specific Human iPSCs for Modeling TSC Pathophysiology and Therapeutic Discovery	\$1,000,450.00
2014	SAHIN, MUSTAFA	CHILDREN'S HOSPITAL, BOSTON	Understanding the Role of TSC1/2 in Cerebellar Purkinje Neurons	\$717,951.00
2013	EL-CHEMALY, SOUHEIL Y	BRIGHAM AND WOMEN'S HOSPITAL	Critical Roles for SYK in Lymphangiogenesis in LAM	\$162,318.00
2012	BREAKFIELD, XANDRA O	BRIGHAM AND WOMEN'S HOSPITAL	Gene Therapy to Extend Lifespan of Tsc1 Conditional Brain Knockouts	\$158,297.00
2012	HENSKE, ELIZABETH	BRIGHAM AND WOMEN'S HOSPITAL	Dysregulation of Cellular Metabolism: Novel Therapeutic Opportunities for TSC	\$905,089.0
	PRIOLO, CARMEN	BRIGHAM AND WOMEN'S HOSPITAL	Novel Application for 18F-Fluorocholine PET Imaging in TSC	\$170,609.0
2012	SAHIN, MUSTAFA	BOSTON CHILDREN'S HOSPITAL	Role of CTGF in White Matter Development in Tuberous Sclerosis	\$739,505.0
2011	HENSKE, ELIZABETH	BRIGHAM AND WOMEN'S HOSPITAL	TSC1 and TSC2 Gene Homologs in Schizosaccharomyces Pombe	\$1,678,542.0
2011	YU, JANE	BRIGHAM AND WOMEN'S HOSPITAL	Targeting Estrogen-Induced COX-2 Activity in Lymphangioleiomyomatosis (LAM)	\$121,999.0
	PERRIMON, NORBERT	HARVARD UNIVERSITY	Unbiased Combinatorial Genomic Approaches to Identify Alternative Therapeutic Targets within the TSC Signaling Network	\$998,375.0
2010	BEAR, MARK	MASSACHUSETTS INSTITUE OF TECHNOLOGY	Role of Altered mGluR Activity in Cognitive Impairments in TSC: Implications for a Novel Method Treatment	\$698, 510.0
2010	NELSON, CHARLES	CHILDREN'S HOSPITAL, BOSTON	Defining Early Markers of Neurodevelopmental Disorders in Infants with TSC	\$1,490,090.0
2009	BLENIS, JOHN	HARVARD UNIVERSITY	Identification of Genes and Compounds that Control the Viability of Cells Lacking Tsc2	\$169,500.0
2009	CHAN, JOANNE	CHILDRENS HOSPITAL	Neuronal VEGF Signaling Enhances Tsc1/2 Deficiency to Promote TSC Progression	\$171,583.0
2009	GAN, BOYI	DANA-FARBER CANCER INSTITUTE	TSC-FoxO Signaling Network in Kidney Cancer Development	\$494,392.0
	LADIAS, JOHN	BETH ISRAEL DEACONESS MEDICAL CENTER, BOSTON	Structural Basis for TSC1-TSC2 Complex Function	\$782,688.0
2009	MANNING, BRENDAN	HARVARD UNIVERSITY	Defining the Therapeutic Implications of the Integrative Stress Response in TSC	\$726,750.0

State/Country	PI	Institution	Project	Award Total
Massachusetts co				
	PAUL, ELAHNA	MASSACHUSETTS GENERAL HOSPITAL	Biomarkers of Renal Tumor Burden and Progression in TSC	\$176,998.0
2008	YOSHII, AKIRA	MIT	Studying Protein Synthesis-Dependent Synaptic Changes in Tuberous Sclerosis	\$567,840.0
2006	LADIAS, JOHN	BETH ISRAEL DEACONESS MEDICAL CENTER, BOSTON	Structural Basis for TSC1-TSC2 Complex Formation	\$113,900.0
2006	LONG, XIAOMENG	MASSACHUSETTS GENERAL HOSPITAL	Screening for Chemical Compounds that Specifically Interfere with TSC-Rheb-TOR Signaling	\$117,206.0
2006	SABATINI, DAVID M	WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH	Structural and Mechanistic Analyses of TSC1/2- and Rheb1/2- Mediated Regulation of the mTOR Pathway	\$779,922.0
2004	SABATINI, DAVID M	WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH	Identifying Novel Drug Targets for the Treatment of Tuberous Sclerosis Complex Using High Throughput Technologies	\$100,000.0
2004	SAHIN, MUSTAFA	CHILDREN'S HOSPITAL, BOSTON	Development of Peptide Inhibitors of Rheb Signaling Pathway	\$100,000.0
2003	KAELIN, WILLIAM G	DANA-FARBER CANCER INSTITUTE	Hypoxia-Inducible Factor Regulation by the TSC2 Tumor Suppressor Protein	\$356,600.0
	SABATINI, BERNARDO	HARVARD UNIVERSITY	The Role of TSC1 in the Formation and Maintenance of Excitatory Synapses	\$425,000.0
2002	ΙΤΟ, ΝΑΟΤΟ	MASSACHUSETTS GENERAL HOSPITAL	Functions of TSC Genes in the Nervous System in Drosophila Melanogaster	\$420,569.0
Michigan				\$1,589,403.7
2021	DOMBKOWSKI, ALAN A	WAYNE STATE UNIVERSITY	Exosome Biomarkers of Epilepsy in Tuberous Sclerosis Complex Patients	\$223,998.0
	INOKI, KEN	MICHIGAN, UNIVERSITY OF	Mechanism of Ribosomes Biogenesis in TSC	\$845,679.00
	DOMBKOWSKI, ALAN	WAYNE STATE UNIVERSITY	The Role of 5-Hydroxymethylcytosine in Gene Dysregulation of Epileptogenic Tubers in Tuberous Sclerosis Complex Patients	\$149,942.00
	guan, kun-liang	UNIVERSITY OF MICHIGAN	Regulation of the mTOR Pathway by a Novel Rheb Binding Protein BNIP3	\$99,784.70
2005	guan, kun-liang	UNIVERSITY OF MICHIGAN	BIG1 as a Potential Guanine Nucleotide Exchange Factor for Rheb	\$100,000.0
2005	GUAN, KUN-LIANG	UNIVERSITY OF MICHIGAN	Function of p53 in Regulation of TSC Mutant Cell Apoptosis	\$70,000.0
2004	guan, kun-liang	UNIVERSITY OF MICHIGAN	Regulation of TSC1/TSC2 Stability and Rheb GTP Level by Herc1	\$100,000.0
Vinnesota				\$2,822,567.0
	KIM, DO-HYUNG	UNIVERSITY OF MINNESOTA	Role of the Immunoproteasome in TSC Pathogenesis and Therapeutics	\$693,000.0
	YONG, JEONGSIK	UNIVERSITY OF MINNESOTA	Characterization of mTOR-Responsive Truncated mRNAs in Cell Proliferation	\$226,800.0
	KIM, DO-HYUNG	UNIVERSITY OF MINNESOTA	Targeting Amino Acid-mTORC1 Signaling Limb for TSC Suppression	\$645,998.0
	KIM, DO-HYUNG	UNIVERSITY OF MINNESOTA	Defining the Regulatory Mechanisms of Rheb-mTOR Signaling Activated in Tuberous Sclerosis Complex	\$100,000.0
	KIM, DO-HYUNG	UNIVERSITY OF MINNESOTA	Functional Proteomics of TSC-mTOR Signaling	\$596,567.00
2006	SELLECK, SCOTT	UNIVERSITY OF MINNESOTA	Understanding the Function of Tuberous Sclerosis Complex Genes in Neural Development: Roles in Synapse Assembly and Axon Guidance	\$560,202.00

State/Country	PI	Institution	Project	Award Total
Missouri				\$2,054,762.00
	WONG, MICHAEL	WASHINGTON UNIVERSITY	Mechanisms of Sleep-Seizure Interactions in Tuberous Sclerosis Complex	\$781,381.00
2020	WONG, MICHAEL	WASHINGTON UNIVERSITY	The Role of Blood-Brain Barrier Dysfunction in Epilepsy in TSC	\$236,250.00
	WEBER, JASON	WASHINGTON UNIVERSITY	Identification of NPM and DDX5 as Therapeutic Targets in TSC	\$152,500.00
2011	WONG, MICHAEL	WASHINGTON UNIVERSITY	The Role of Brain Inflammation in Epileptogenesis in TSC	\$152,000.00
2004	SHIPLEY, JAMES M	WASHINGTON UNIVERSITY	Modeling Phenotypes of Tuberous Sclerosis in the Mouse	\$307,949.00
2002	GUTMANN, DAVID	WASHINGTON UNIVERSITY	Mouse Models of TSC-Related Epilepsy	\$424,682.00
New Jersey				\$2,587,482.00
	VALVEZAN, ALEXANDER	RUTGERS, NEW JERSEY, STATE	Defining the Cell Cycle Phase-Specific Regulation and Function	\$783,077.00
	,	UNIVERSITY OF	of mTORC1 to Identify New Therapeutic Targets in TSC Tumors	,,.
2019	VALVEZAN, ALEXANDER	RUTGERS, THE STATE UNIVERSITY	Defining Cellular Stresses Sensed Through the TSC Complex to	\$234,750.00
		OF NEW JERSEY	Identify Vulnerabilities in TSC Tumors	
2015	D'ARCANGELO, GABRIELLA	RUTGERS UNIVERSITY, NEW BRUNSWICK	Cell Type-Specific Contributions to the TSC Neuropathology	\$816,171.00
2011	D'ARCANGELO, GABRIELLA	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	Exploring the Interaction between TSC2, PTEN, and the NMDA Receptor in Animal Models of Tuberous Sclerosis	\$155,000.00
2009	WOOD, TERESA	NEW JERSEY, UNIVERSITY OF MEDICINE AND DENTISTRY OF, ROBERT WOOD JOHNSON MEDICAL SCHOOL	TSC Regulates Oligodendroglial Differentiation and Myelination in the CNS	\$154,012.00
2004	CHADA, KIRAN K	NEW JERSEY, UNIVERSITY OF MEDICINE AND DENTISTRY OF, ROBERT WOOD JOHNSON MEDICAL SCHOOL	HMGA2 in Tuberous Sclerosis	\$444,472.00
New York				\$8,011,238.00
2022	HAMMES, STEPHEN R	ROCHESTER, UNIVERSITY OF	Estrogen Promotes Lymphangioleiomyomatosis (LAM) Indirectly Through Stimulation of Innate Immunity	\$770,000.00
2021	TANG, GUOMEI	COLUMBIA UNIVERSITY MEDICAL CENTER	Autophagy Induction as a Novel Therapeutic Strategy for TSC- Associated Cognitive and Autistic Social Deficits	\$810,000.00
2020	D'ARMIENTO, JEANINE M	COLUMBIA UNIVERSITY MEDICAL CENTER	LAM Pilot Study with Nilotinib LAMP-2	\$859,380.00
2020	HOLZ, MARINA K	NEW YORK MEDICAL COLLEGE	KCC2 Dysfunction Enhances Synaptic Excitability of Cytomegalic Neurons in TSC	\$243,000.00
2017	D'ARMIENTO, JEANINE MARIE	COLUMBIA UNIVERSITY MEDICAL CENTER	Neural Crest Origin of TSC Tumors	\$719,994.00
2016	BLENIS, JOHN	JOAN & SANFORD I WEILL MEDICAL COLLEGE OF CORNELL UNIVERSITY	Metabolic Regulation of mTORC1 Catalytic Activity	\$762,750.00
2015	TANG, GUOMEI	COLUMBIA UNIVERSITY MEDICAL CENTER	Impaired mTOR Macroautophagy and Neurocognitive Deficits in Tuberous Sclerosis Complex	\$720,000.00
2014	GOLDMAN, JAMES E	COLUMBIA UNIVERSITY MEDICAL CENTER	Molecular Mechanisms Underlying the Epileptogenesis and Seizure Progression in Tuberous Sclerosis	\$679,999.00
2013	QIAN, SHU-BING	CORNELL UNIVERSITY, ITHACA	Defining Translational Reprogramming in Tuberous Sclerosis Complex	\$658,750.00
2011	SULZER, DAVID	COLUMBIA UNIVERSITY	Altered Astrocyte-Neuron Interactions and Epileptogenesis in Tuberous Sclerosis Complex Disorder	\$704,306.00
2011	HAMMES, STEPHEN	UNIVERSITY OF ROCHESTER	Uterine-Specific Knockout of TSC-2: A Mouse Model for Lymphangioleiomyomatosis (LAM)	\$152,000.00

State/Country	PI	Institution	Project	Award Total
New York continu				
	QIAN, SHU-BING	CORNELL UNIVERSITY, ITHACA	Genome-Wide Analysis of Translational Control in Tuberous Sclerosis Complex	\$146,810.00
2008	TSANG, STEPHEN	COLUMBIA UNIVERSITY	Preventing Visual Handicap in Children with Tuberous Sclerosis Complex	\$482,300.00
2006	LEATHERWOOD, JANET	STATE UNIVERSITY OF NEW YORK AT STONY BROOK	A Search for New Therapeutic Targets: Using Yeast to Find the GEF for Rheb	\$101,949.00
2005	JAFFREY, SAMIE R	WEILL MEDICAL COLLEGE OF CORNELL UNIVERSITY	Role of TSC1/2 in Axonal Development and Neuronal Morphogenesis	\$100,000.00
2004	ZHONG, YI	COLD SPRING HARBOR LABORATORY	Analysis of Learning Disabilities of Tuberous Sclerosis Complex in Drosophila	\$100,000.00
North Carolina				\$2,475,454.00
2022	CAPAL, JAMIE K	NORTH CAROLINA AT CHAPEL HILL, UNIVERSITY OF	Regulating Together in Tuberous Sclerosis Complex: A Pilot Feasibility Study in Children and Adolescents with TSC- Associated Neuropsychiatric Disorder (TAND)	\$1,188,902.00
	RAAB-GRAHAM, KIMBERLY F	WAKE FOREST UNIVERSITY HEALTH SCIENCES	Investigative Studies into mTORC1-Dependent Dendritic Branch Potentiation in TSC	\$652,954.00
2013	ANTON, EVA	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Disrupted Cilia Signaling in Tuberous Sclerosis Complex	\$633,598.00
Dhio				\$4,494,790.00
	RITTER, DAVID	CHILDREN'S HOSPITAL, CINCINNATI	Cardiac Rhabdomyomas as Biomarkers of TSC Disease Severity	\$213,281.00
2021	DIFRANCESCO, MARK	CHILDREN'S HOSPITAL, CINCINNATI	Establishing Network Connectivity and Microvascular Imaging Biomarkers for Tuberous Sclerosis Complex	\$755,762.00
2021	LETTERIO, JOHN	CASE WESTERN RESERVE UNIVERSITY	Development of Novel Synthetic Triterpenoids for the Chemoprevention of Neurological Manifestations of Tuberous Sclerosis Complex	\$241,500.00
2020	HESTER, MARK	RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL	Dissecting Mechanisms Underlying Brain Calcification in TSC	\$231,000.00
2019	YU, JANE J	UNIVERSITY OF CINCINNATI	Dysregulation of Sphingolipid Metabolism and Actions in Tuberous Sclerosis Complex	\$722,250.00
2018	YU, JANE J	UNIVERSITY OF CINCINNATI	Development of Remission-Inducing Therapy for TSC Tumors	\$160,500.00
2010	LI, YU	CHILDREN'S HOSPITAL, CINCINNATI	Noninvasive, MR-Guided HIFU Therapy of TSC-Associated Renal Angiomyolipomas	\$152,624.00
	MCCORMACK, FRANCIS	UNIVERSITY OF CINCINNATI	LAMS Clinics Research Network	\$1,103,808.00
2005	BISSLER, JOHN	CHILDREN'S HOSPITAL, CINCINNATI	Tuberous Sclerosis Complex Natural History Study: Renal Manifestations	\$814,065.00
2004	XU, LI-HUI	ONCOIMMUNE, LTD.	Study of 2-Deoxyglucose as a Potential Treatment for TSC	\$100,000.00
Pennsylvania				\$2,214,061.00
2021	OBRAZTSOVA, KSENIYA	PENNSYLVANIA, UNIVERSITY OF	Defining Molecular Mechanism for Targeting the Female-Specific TSC-LAM	\$243,750.00
	STEPANOVA, VICTORIA	UNIVERSITY OF PENNSYLVANIA	Role of Urokinase-Type Plasminogen Activator (uPA) in Progression of TSC Tumors	\$240,000.00
2008	ASTRINIDIS, ARISTOTELIS	DREXEL UNIVERSITY SCHOOL OF MEDICINE	Role of the Hamartin-Plk1 Interaction in Tuberous Sclerosis Complex Pathogenesis	\$675,000.00
2005	CRINO, PETER B	UNIVERSITY OF PENNSYLVANIA	Mutational Analysis of Cell Types in Tuberous Sclerosis Complex (TSC)	\$406,560.00
2005	LIU, YONG-JIAN	UNIVERSITY OF PITTSBURGH	Molecular Mechanisms of Neurological Disorders in TSC	\$100,000.00
	KRYMSKAYA, VERA P	UNIVERSITY OF PENNSYLVANIA	The Role of TSC Proteins in Regulating Cell Adhesion and Motility	\$150,000.00
2002	HENSKE, ELIZABETH	FOX CHASE CANCER CENTER	TSC1 and TSC2 Gene Homologs in Schizosaccharomyces Pombe	\$398,751.00

State/Country	PI	Institution	Project	Award Total
Rhode Island				\$869,815.0
	ZERVAS, MARK	BROWN UNIVERSITY	Temporal Loss of Tsc1: Neural Development and Brain Disease in Tuberous Sclerosis	\$716,530.00
2010	ZERVAS, MARK	BROWN UNIVERSITY	Determining Neuronal Circuits in Tuberous Sclerosis	\$153,285.00
South Carolina				\$924,765.00
2019	FELICIANO, DAVID M	CLEMSON UNIVERSITY	A Subependymal Giant Cell Astrocytoma (SEGA) Mouse Model	\$667,968.00
2013	STRANGE, CHARLIE	MEDICAL UNIVERSITY OF SOUTH CAROLINA	LAM Pilot Study with Imatinib Mesylate (LAMP-1)	\$256,797.00
Tennessee				\$4,055,037.00
2022	CHAUM, EDWARD	VANDERBILT UNIVERSITY MEDICAL CENTER	Optimizing Therapeutic Control of Epilepsy in Tuberous Sclerosis Complex Using a Novel Biosensor	
2017	ZAREI, MAHSA	VANDERBILT UNIVERSITY	Targeting Transcriptional Addiction for the Treatment of TSC	\$222,751.00
	IHRIE, REBECCA A	VANDERBILT UNIVERSITY	Identifying Novel Candidate Therapies for SEGAs Using Quantitative Single-Cell Assays	\$930,096.00
	BISSLER, JOHN	UNIVERSITY OF TENNESSEE, HEALTH SCIENCE CENTER		\$637,501.00
2009	ESS, KEVIN	VANDERBILT UNIVERSITY	Neural Development in tsc2-Deficient Zebrafish	\$697,156.00
Texas				\$6,447,682.58
	BRAGER, DARRIN	TEXAS, UNIVERSITY OF, AT AUSTIN	Voltage-Gated Ion Channel Dysfunction in Tuberous Sclerosis	\$231,237.00
	ANDERSON, ANNE	BAYLOR COLLEGE OF MEDICINE	Mechanisms of Epileptogenesis and Circuit Dysfunction in a Mouse Model of TSC	\$722,250.00
2018	PENG, GUANG	M.D. ANDERSON CANCER CENTER, UNIVERSITY OF TEXAS	Maintenance of Genome Stability in TSC2-Deficient Tumors	\$160,000.00
2018	JIANG, XIAOLONG	BAYLOR COLLEGE OF MEDICINE	Deciphering Circuit-Level Mechanisms Underlying Intrinsic Epileptogenicity of Cortical Tubers in TSC	\$160,072.00
2017	FARACH, LAURA	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	Developing a Genetic Risk Prediction Model for Epilepsy in Patients with TSC	\$627,069.00
2016	TSAI, PETER	TEXAS, UNIVERSITY OF, SOUTHWESTERN MEDICAL CENTER AT DALLAS	Neural Circuits Underlying Autism-Relevant Behaviors in TSC	\$708,784.00
2014	KARBOWNICZEK, MAGDALENA	TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER, LUBBOCK	Identifying Mechanisms Initiating LAM and Angiomyolipoma in Tuberous Sclerosis Complex	\$641,746.00
2013	RAAB-GRAHAM, KIMBERLY	UNIVERSITY OF TEXAS AT AUSTIN	Molecular Studies Investigating th eLink Between Dendritic mRNA Translation and Repression Leading to Epilepsy in TSC	\$800,064.00
2010	GAMBELLO, MICHAEL	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	Behavioral Analysis and Rescue of a Novel Cerebellar Mouse Model of Tuberous Sclerosis Complex	\$149,643.00
2010	KOENIG, MARY K	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	Topical Rapamycin Therapy to Alleviate Cutaneous Manifestations of Tuberous Sclerosis Complex	\$1,798,869.00
2009	WALKER, CHERYL	M.D. ANDERSON CANCER CENTER, UNIVERSITY OF TEXAS	TSC2 and Cystogenesis	\$111,382.00
2006	GAMBELLO, MICHAEL	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON	Targeted Disruption of Tsc2 Gene in the Mouse Cerebellum	\$95,259.58
2005	WALKER, CHERYL	M.D. ANDERSON CANCER CENTER, UNIVERSITY OF TEXAS	TSC2 Happloinsufficiency Leads to a Mutator Phenotype	\$100,000.00
2004	SPARAGANA, STEVEN P	TEXAS SCOTTISH RITE HOSPITAL FOR CHILDREN	Tuberous Sclerosis Complex National Database	\$141,307.00
Vermont				\$155,661.17
	MAHONEY, JOHN M	UNIVERSITY OF VERMONT & STATE AGRICULTURAL COLLEGE	Systems Genetics of Tuberous Sclerosis Complex Outcomes Using BXD Recombinant Inbred Mice	\$155,661.17

State/Country	PI	Institution	Project	Award Total
Virginia				\$238,794.00
	WENKER, IAN	VIRGINIA, UNIVERSITY OF	Mechanisms of Seizure-Induced Death of TSC Model Mice	\$238,794.00
Washington				\$232,295.00
	XU, WENQUING	UNIVERSITY OF WASHINGTON	3D Structure of TSC1	\$154,295.00
2008	XU, WENQUING	UNIVERSITY OF WASHINGTON	Structural Studies of the HERC1-Tuberin Interaction	\$78,000.00
West Virginia				\$84,420.00
2006	GUO, HUI-FU	WEST VIRGINIA UNIVERSITY	Analyzing the Functions of Tuberous Sclerosis Complex in	
			Synapse Development and Synaptic Plasticity in Drosophila	\$84,420.00
Wisconsin				\$144,211.00
2013	HORNBERGER, TROY A	UNIVERSITY OF WISCONSIN,	The Role of TSC2 Phosphorylation in the Regulation of TSC2	
		MADISON	Localization and mTOR Signaling	\$144,211.00
Australia				\$754,255.00
2018	ELLISDON, ANDREW M	MONASH UNIVERSITY	Structural Basis of Tuberous Sclerosis Complex Assembly and	
			Dysregulation in Disease	\$754,255.00
Canada				\$1,317,216.00
2013	KARAGIANNIS, JIM	UNIVERSITY OF WESTERN ONTARIO	Using Genetic Buffering Relationships Identified in Fission Yeast to Elucidate the Molecular Pathology of Tuberous Sclerosis	\$84,318.00
	STANFORD, WILLIAM	UNIVERSITY OF OTTAWA	Modeling TSC and LAM Using Patient-Derived Induced Pluripotent Stem Cells	\$658,419.00
2010	ROBERGE, MICHEL	UNIVERISTY OF BRITISH COLUMBIA	Study of mTOR Signaling Inhibitors as Potential Treatment for TSC	\$107,050.00
2008	STAMBOLIC, VUK	UNIVERSITY HEALTH NETWORK, TORONTO	Development of a Novel NMR-Based Rheb GTPase Assay and Molecular Characterization of TSC2 GAP Activity	\$110,400.00
2005	MCNEILL, HELEN	MOUNT SINAI HOSPITAL, SAMUEL LUNENFELD RESEARCH INSTITUTE	Genetic and Molecular Analysis of the Mechanisms by which TSC Regulates Neuronal Differentiation	\$357,029.00
England				\$584,708.00
2018	DUNLOP, ELAINE	CARDIFF UNIVERSITY	An Innovative Model System of Cell Invasion in TSC/LAM to Uncover New Drug Targets and Therapies	\$99,995.00
2016	BATEMAN, JOSEPH	KING'S COLLEGE, LONDON	Establishing the Molecular Basis of the Neurodevelopmental Features of TSC	\$484,713.00
Germany				\$146,049.3
2019	KUEMMEL, DANIEL	WESTFAELISCHE WILHELMS- UNIVERSITAET MUENSTER	Structural Analysis of the TSC Complex by Single Particle Reconstruction	\$146,049.35
Japan				\$420,000.00
	MATSUMOTO, TOMOHIRO	KYOTO UNIVERSITY	Fission Yeast Model Study for Dissection of TSC Pathway	\$420,000.00
Switzerland				\$714,141.00
2021	HALL, MICHAEL N	UNIVERSITAT BASEL	Selective mTORC1 Inhibitors to Treat TSC	\$549,471.00
	HALL, MICHAEL N	UNIVERSITAT BASEL	Novel mTORC1 Inhibitors to Treat TSC	\$164,670.00
The Netherlands				\$350,548.00
2006	NELLIST, MARK	Erasmus MC-Daniel den Hoed Cancer Center	Biochemical Characterization of TSC1 and TSC2 Variants Identified in Patients with Tuberous Sclerosis Complex	\$350,548.00