



**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**  
Federal Award Program Reports in Accordance with the Uniform  
Guidance  
Year Ended June 30, 2018  
(With Independent Auditors' Reports Thereon)

# THE MEDICAL UNIVERSITY OF SOUTH CAROLINA

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**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2018

<u>Federal grantor/pass-through grantor/program title</u>	<u>Federal CFDA number</u>	<u>Pass-through entity identifying number</u>	<u>Federal expenditures</u>	<u>Subrecipients expenditures</u>
Research and Development Cluster*:				
U.S. Department of Commerce:				
Direct programs:				
South Carolina Sea Grant Consortium	11.609	NA	\$ 35,803	—
Total U.S. Department of Commerce			<u>35,803</u>	<u>—</u>
U.S. Department of Defense:				
Direct programs:				
Department of the Navy, Office of the Chief of Naval Research	12.300	NA	189,487	32,620
U.S. Army Medical Command	12.420	NA	2,634,066	322,015
Genetic Anatomy of Sleep	12.431	NA	287,466	—
			<u>3,111,019</u>	<u>354,635</u>
Passed-through programs:				
Military Medical Research and Development:				
Charleston Research Institute	12.420	W81XWH-08-2-0047	114,676	—
Chedars-Sinai Medical Center	12.420	1302499	597,785	—
RTI International	12.420	4-312-0215031-52780L	82,802	—
Henry M Jackson Fdn	12.420	W81XWH-17-2-0009 / 4136	19,519	—
University of Arizona	12.420	294773	25,573	—
University of California	12.420	2015-3287, W81XWH-15-1-0696	17,863	—
University of California, San Francisco	12.420	PO 8739sc/W23RYX2111N603; 8740sc/	523,989	—
University of North Texas	12.420	GF70026-1	395,420	—
University of Pennsylvania	12.420	560165; 3547981/W81XWH-12-2-0116; PO #	221,780	—
University of Texas Health Science Center / San Antonio	12.420	162682/155536/W81XWH1320065	70,553	—
Veterans Education and Research Association of Michigan	12.420	V-SUBMUSC-11-30/W81XWH-11-1-0073	195,779	—
National Trauma Institute	12.420	NTI-CLOTT17-07/ W81XWH-17-1-0673	34,148	—
Total Military Medical Research and Development			<u>2,299,887</u>	<u>—</u>
Institute for Molecular Neuroscience	12.unknown	804-237		
University of Maryland	12.unknown	0000011190/W912HQ-12-C-00	(8,257)	—
Tissue Testing Technology, LLC	12.unknown	H151-013-0162	50,940	—
			<u>2,342,570</u>	<u>—</u>
Total U.S. Department of Defense			<u>5,453,589</u>	<u>354,635</u>
U.S. Department of Agriculture				
Direct programs:				
SC Department of Education	10.855	NA	101,932	—
Total U.S. Department of Agriculture			<u>101,932</u>	<u>—</u>

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U.S. Department of Justice:				
Direct programs:				
National Institute of Justice	16.560	NA	\$ 241,627	—
Mass Violence Resource Center	16.582	NA	<u>1,714,443</u>	<u>32,095</u>
Total U.S. Department of Justice			<u>1,956,070</u>	<u>32,095</u>
National Aeronautics and Space Administration:				
Direct programs:				
Exploration	43.003	NA	236,589	—
Passed-through programs:				
College of Charleston	43.008	18-SG-MUSC, 521179-PA-MUBarth	<u>24,949</u>	<u>—</u>
Total National Aeronautics and Space Administration			<u>261,538</u>	<u>—</u>
National Science Foundation:				
Direct programs:				
Biological Sciences	47.041	NA	88,383	
International Science and Engineering (OISE)	47.079	NA	<u>1,077,979</u>	<u>636,773</u>
			<u>1,166,362</u>	<u>636,773</u>
Passed-through programs:				
College of Charleston	47.050	521151-MUSC	17,410	—
College of Charleston	47.041	IIP-0917987	8,465	—
University of South Carolina	47.083	183499	<u>406,870</u>	<u>—</u>
			<u>432,745</u>	<u>—</u>
Total National Science Foundation			<u>1,599,107</u>	<u>636,773</u>
U.S. Department of Veteran Affairs:				
Direct programs:				
U.S. Department of Veteran Affairs – Other Federal	64.unknown	NA	<u>2,220,638</u>	<u>—</u>
Total U.S. Department of Veteran Affairs			<u>2,220,638</u>	<u>—</u>
U.S. Department of Education:				
Direct programs:				
Graduate Assistance in Areas of National Need	84.200	NA	<u>158,021</u>	<u>—</u>
Total U.S. Department of Education			<u>158,021</u>	<u>—</u>
U.S. Department of Health and Human Services:				
Direct programs:				
Training in General Pediatric, and Public Health	93.059	NA	380,068	34,994
Family Smoking Prevention and Tobacco Control Act Regulatory Research	93.077	NA	3,648,063	3,299,060
Health Resources and Services Administration	93.107	NA	416,081	311,833
Maternal and Child Health Federal Consolidated Programs	93.110	NA	848,550	327,562
Environmental Health	93.113	NA	53,000	—
Oral Diseases and Disorders Research	93.121	NA	2,554,440	60,671
Research Related to Deafness and Communication Disorders	93.173	NA	4,093,737	331,578

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Schedule of Expenditures of Federal Awards

Year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Pass-through entity identifying number	Federal expenditures	Subrecipients expenditures
Telehealth Network Grants	93.211	NA	\$ 317,370	—
Research Training in Complementary and Alternative Medicine	93.213	NA	153,986	—
Research on Healthcare Costs, Quality and Outcomes	93.226	NA	1,633,400	1,432
Grants for Dental Public Health Residency Training	93.236	NA	389,444	270,000
Mental Health Research Grants	93.242	NA	4,533,700	973,461
Substance Abuse and Mental Hlth Svs_Projects of Regional and National Significance	93.243	NA	261,116	—
Alcohol Research Programs	93.273	NA	8,457,520	4,617
Drug Abuse and Addiction Research Programs	93.279	NA	16,433,548	699,610
Centers for Disease Control and Prevention, Investigations and Technical Assistance	93.283	NA	1,342	—
Discovery and Applied Rsch for Technological Innovations to Improve Human Health	93.286	NA	286,251	—
Minority Health and Health Disparities Research	93.307	NA	2,161,745	371,141
Environmental Contributors to Child Health Originating from National Fetal Growth Study	93.310	NA	2,846,825	1,390,646
National Center for Advancing Translational Sciences	93.350	NA	5,213,405	467,496
Research Infrastructure Programs	93.351	NA	30,348	—
21st Century Cures Act- Beau Biden Cancer Moonshoot	93.353	NA	164,076	—
Nurse Education, Practice and Retention Grants	93.359	NA	610,759	233,152
Nursing Research	93.361	NA	998,358	6,392
Cancer Cause and Prevention Research	93.393	NA	1,819,185	114,193
Cancer Detection and Diagnosis Research	93.394	NA	520,381	—
Cancer Treatment Research	93.395	NA	4,323,173	391,645
Cancer Biology Research	93.396	NA	4,709,851	973,186
Cancer Centers Support Grants	93.397	NA	2,667,673	132,106
Cancer Research Manpower	93.398	NA	1,356,626	54,879
ACL National Institute on Disability, Independent Living, and Rehabilitation Research	93.433	NA	1,002,434	73,421
Surveillance for Diseases among immigrants and refugees	93.755	NA	10,137	—
Cardiovascular Diseases Research	93.837	NA	5,189,041	77,438
Lung Disease Research	93.838	NA	389,591	—
Blood Diseases and Resources Research	93.839	NA	1,510,778	252,895
Arthritis, Musculoskeletal and Skin Diseases Research	93.846	NA	2,455,963	2,306
Diabetes, Digestive and Kidney Diseases Extramural Research	93.847	NA	7,440,630	1,141,600
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853	NA	7,081,372	187,432
Allergy, Immunology and Transplantation Research	93.855	NA	4,035,371	21,384
Biomedical Research and Research Training	93.859	NA	8,080,988	275,139
Child Health and Human Development Extramural Research	93.865	NA	2,095,809	193,033
Aging Research	93.866	NA	2,799,361	1,247,337
Vision Research	93.867	NA	1,481,891	78,822
Medical Library Assistance	93.879	NA	19,688	—
Grants for Training in Primary Care Medicine and Dentistry	93.884	NA	459,497	20,266
International Research and Research Training	93.989	NA	605,200	363,543
Other Federal Assistance	93.unknown	NA	685,360	—
			<u>117,227,132</u>	<u>14,384,270</u>

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Year ended June 30, 2018

<u>Federal grantor/pass-through grantor/program title</u>	<u>Federal CFDA number</u>	<u>Pass-through entity identifying number</u>	<u>Federal expenditures</u>	<u>Subrecipients expenditures</u>
Passed-through programs:				
Research on Healthcare Costs, Quality and Outcomes:				
Albert Einstein College of Medicine	93.226	PO# 529678/310939/R01HS024432, 310809	\$ 19,413	—
Duke University	93.226	2035835	25,705	—
Clemson University	93.226	1824-209-2010985	199,720	—
Seattle Children's Hospital	93.226	11510SUB,U18HS025291	55,730	—
Total Research on Healthcare Costs, Quality and Outcomes			<u>300,568</u>	<u>—</u>
Drug Abuse and Addiction Research Programs:				
American Academy of Child and Adolescent Psychiatry	93.279	K12DA000357	11,122	—
Columbia University	93.279	3(GG010654-01)/R01DA043130-01	203,813	—
Duke University	93.279	2035747	6,263	—
Univ of Hawaii	93.279	MA1280	64,882	—
JT Pharmaceuticals	93.279	R43DA036398	(1,276)	—
University of California, San Diego	93.279	83071603 (MP Invoice # S90010568)	413,865	—
University of Utah	93.279	10042182	31,612	—
Total Drug Abuse and Addiction Research Programs			<u>730,281</u>	<u>—</u>
Cancer Treatment Research:				
CanCue, LLC	93.395	89999	6,116	—
Leukogene Therapeutics	93.395	1R41CA180255-01	31,184	—
Loyola University Chicago	93.395	P01CA154778	55,529	—
Radiation Therapy Oncology Group	93.395	U10CA21661/RTOG #4501	177,751	—
South West Oncology Group	93.395	PROTOCOL S0111-CA37429&CA32102	31,229	—
University of Maryland, Baltimore	93.395	1600856	20,554	—
University of Texas	93.395	1603603;R21CA208746	26,620	—
Emory University	93.395	T853094 / 7R01CA208253-02	61,634	—
Total Cancer Treatment Research			<u>410,617</u>	<u>—</u>
Biomedical Research and Research Training:				
Actuated Medical, Inc.	93.859	5038-S02	24,533	—
Brigham and Women's Hospital	93.859	115719	23,128	—
Beckman Research Inst. Of the City of Hope	93.859	52487.2001929.669201	28,194	—
Clinacuity Inc.	93.859	1/1R41GM116479-01	55,236	—
Clemson University	93.859	P20GM103444	13,148	—
University of Delaware	93.859	34379/U54GM104941	493,878	355
University of South Carolina	93.859	15-2742/P20GM103499; 22050-Z187	358,278	—
Total Biomedical Research and Research Training			<u>996,395</u>	<u>355</u>

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Allergy and Infectious Diseases:				
Benaroya Research Institute	93.855	FY14ITN121/UM1A1109565	\$ 111,316	—
Brigham and Women's Hospital	93.855	5U01AI063623-07	1,801	—
Duke University	93.855	203-4118/U19A1056363, 2032049, 201209/	14,256	—
Moffitt Cancer Center	93.855	10-15922-99-02-G2/RO1A1082685	(419)	—
Ohio state University	93.855	60055416	25,960	—
Northwestern University	93.855	60024957/U01AI084146	(2,425)	—
Rutgers University	93.855	298	98,098	—
University of California, San Francisco	93.855	9278SC/UM1A1110498	27,767	—
Total Allergy and Infectious Diseases			276,354	—
Cardiovascular Diseases Research:				
Beth Israel Deaconess Medical Center	93.837	01026527		—
Bringham and Women's hospital	93.837	1U01HL130163-01	22,743	—
Clemson University	93.837	1956-209-2012106 / PO # 5R01HL133308-02	49,375	—
Cincinnati Children's Hospital	93.837	137829	9,442	—
Emory University	93.837	T451931/U01HL128566	22,985	—
FirstStrong Research LLC.	93.837	1R43HL131360-01A1	10,976	—
Massachusetts General Hospital	93.837	225898/R01HL127692, NA	122,681	—
New England Research Institutes	93.837	NA, U01HL107407-01A1	93,229	—
NorthShore Univ. Health System	93.837	EH15-107-S1	19,767	—
Pediatric Heart Network	93.837	NA/U10HL068270	8,500	—
Seattle Children Hospital	93.837	11210SUB/UM1HL119073	56,039	—
Temple University	93.837	361318-04400-7341-02	38,869	—
University of Alabama, Birmingham	93.837	000503570-026	12,745	—
University of Texas Health Center	93.837	0013165A	14,780	—
Yale University	93.837	M16A12329 (A10472)	(1,543)	—
Total Cardiovascular Diseases Research			480,588	—
Extramural Research Programs in the Neurosciences and Neurological Disorders:				
Beth Israel Deaconess Medical Center	93.853	1028180; 01027587	312,405	—
Columbia University	93.853	2(GG012006-01)/1U01NS095869-01	436,053	—
Emory University	93.853	T062273/ 5U01NS062778-05; 5R01NS071867-05;	10,885	—
Amuza Inc	93.853	1R41NS102049-01A1	31,519	—
Johns Hopkins University	93.853	2002274191/U01NS080824	(6,781)	—
Massachusetts General Hospital	93.853	R01NS073344; Site #182	83,649	—
Mayo Clinic, Jacksonville	93.853	U01NS080168; 64586470	1,000,079	—
Medical College of Wisconsin	93.853	R01NS035929/PO 1570642	3,261	—
Neuroene Therapeutics	93.853	R41NS097047	720	—
Northwestern University	93.853	60036745 MUSC/U01NS080818	45,577	—
Optima Neuroscience, Inc.	93.853	OPT-005-MUSC	11,459	—
Recovr, Inc.	93.853	MUSC-RECVR-1	224,856	—
Stanford University	93.853	61121063-116661	234,977	—
Temple University	93.853	361248-05430-02/PO306220	5,802	—
University of California, Irvine	93.853	2015-3160, U01NS091951; U01NS091951-126258	87,300	—
University of California, San Francisco	93.853	7385sc	338,068	—

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University of Cincinnati	93.853	008822-Adm-Chimowitz; 005695; 006784	\$ 92,010	—
University of Florida	93.853	UFDSP00011951	22,018	—
University of Miami	93.853	662706/R01NS084288, 665164/MS87676/U54NS092091	13,128	—
University of Minnesota	93.853	P006124703	17,884	—
University of Virginia	93.853	GC12107-149702	225,024	—
UT Southwestern Medical Center	93.853	GMO180905/R01NS103422-01	74,829	—
Total Extramural Research Programs in the Neurosciences and Neurological Disorders			<u>3,264,722</u>	<u>—</u>
Diabetes, Digestive, and Kidney Diseases:				
Case Western Reserve University	93.847	RES51001S; RES508609/DP3DK101074;	169,570	—
Duke University	93.847	2034860/R01DK103534; U01DK065176	47,102	—
Emmes Corporation	93.847	UC4DK098086	(274)	—
Emory University	93.847	T175542 R01DK087694	(1,068)	—
Mitohealth, Inc.	93.847	1R43DK103440 01	(229)	—
Research Institute at Nationwide Childrens Hospital	93.847	952614/UM1DK100866	25,610	—
Tufts Medical Center	93.847	5008749-SERV	18,500	—
University of Arkansas	93.847	50709/POG160101529	49,437	—
University of Alabama at Birmingham	93.847	000508172-SP001-001 / P30DK074038	16,090	—
University of Minnesota	93.847	N005115007	12,370	—
University of North Carolina	93.847	5103162; 5-31698	96,455	—
University of South Florida	93.847	Site #3422	3,047	—
University of Texas Southwestern Medical Center	93.847	GMO 161108/U01DK058369; GMO121105; 160105-	446,577	—
Total Diabetes, Digestive, and Kidney Diseases			<u>883,187</u>	<u>—</u>
Smoking Prevention and Tobacco Control Act:				
Health Research, Inc.	93.077	U19CA157345	761	—
Total Smoking Prevention and Tobacco Control Act			<u>761</u>	<u>—</u>
Environmental Health:				
Schnellgen, Inc	93.113	1R41ES023767-01	(594)	—
University of Louisville	93.113	ULRF 16-0886	17,371	—
Total Environmental Health			<u>16,777</u>	<u>—</u>
Oral Diseases and Disorders Research:				
Clemson University	93.121	1602-209-2008855/R01DE021134	77,018	—
Cure Innovations LLC	93.121	R41DE026085MUSC-01	(6,126)	—
New York University	93.121	PO#M170053458/15-A0-00-00463	(1,801)	—
Total Oral Diseases and Disorders Research			<u>69,091</u>	<u>—</u>
Human Genome:				
Pennsylvania State University	93.172	5115-MUSC-NHGRI-7111	(2,007)	—
University of Pennsylvania	93.172	567221/10028487/14984/ U01HG006398	40,785	—
Total Human Genome			<u>38,778</u>	<u>—</u>

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Research Related to Deafness and Communication Disorders:				
Communication Disorders Technology, Inc.	93.173	CDT/MUSC01/R21 DC011174-0	\$ 1,062	—
Duke University	93.173	203-8626/U24DC012079	36,196	—
Johns Hopkins University	93.173	2001191161/R01DC011290-0	(58)	—
Oregon Health Sciences University	93.173	GOTOL0195A_MUSC/R01DC005805,	242,818	—
University of Georgia	93.173	R01DC009029	15,088	—
University of South Carolina	93.173	16-3088; 16-3102; 16-3078 PO2000022311	572,023	—
Total Research Related to Deafness and Communication Disorders			<u>867,129</u>	<u>—</u>
Research and Training in Complementary and Integrative Health:				
University of Utah	93.213	10041186	8,951	—
University of Washington	93.213	UWSC9941	20,277	—
Total Research and Training in Complementary and Integrative Health			<u>29,228</u>	<u>—</u>
Mental Health:				
American Psychological Foundation	93.242	RC10040101300PCRES1000117Y0	4,000	—
Johns Hopkins University	93.242	2002300708	3,468	—
University of California at Los Angeles	93.242	1560 G TA449, R01MH105534	14,991	—
University of Maryland	93.242	SROOOO2139/R01MH094489	27,696	—
University of Minnesota	93.242	N005531701	496,039	—
Total Mental Health			<u>546,194</u>	<u>—</u>
Minority Health and Health Disparities Research:				
Mountainpass Technologies	93.307	11-195/P20MD001770-07	96,632	—
University of Texas Health Science Center at Houston	93.307	U24MD006941	23,861	—
Total Minority Health and Health Disparities Research			<u>120,493</u>	<u>—</u>
National Center for Research Resources:				
Clemson University	93.389	P20GM103444	261,105	—
LAM Foundation	93.389	U54HL127672	682	—
Total National Center for Research Resources			<u>261,787</u>	<u>—</u>
Cancer Cause and Prevention Research:				
Health Research, Inc.	93.393	R01CA151953	27,688	—
Clinacuity, INC	93.393	Award #2/R42CA180190-02A1	288,995	—
New York University	93.393	13-A1-00-110806-01	11,135	—
Mayo Clinic	93.393	MED-214865/PO#64722691,P01CA	136,978	—
University of Buffalo	93.393	R1098047	8,693	—
John Hopkins University	93.393	2002995989	255,476	—
University of South Carolina	93.393	R01CA167067	(598)	—
Yale University	93.393	M17A12515 (A10723)	17,275	—
Total Cancer Cause and Prevention Research			<u>745,642</u>	<u>—</u>

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Cancer Detection and Diagnosis Research:				
Northwestern University	93.394	60048799MUSC	\$ 67,435	—
University of Virginia	93.394	GB10021-152008	26,501	—
University of North Carolina	93.394	5102436, U01CA189281	191,841	—
Total Cancer Detection and Diagnosis Research			<u>285,777</u>	<u>—</u>
Cancer Biology Research:				
Ohio State University	93.396	60054531	438,794	—
University of Pennsylvania	93.396	10043764/565016/9924/01/2POICA098101-12;	963,110	—
Total Cancer Biology Research			<u>1,401,904</u>	<u>—</u>
Cancer Centers Support Grants:				
Yale University	93.397	M16A12299(A10417)	30,474	—
Total Cancer Centers Support Grants			<u>30,474</u>	<u>—</u>
Lung Diseases Research:				
Brigham and Women's Hospital	93.838	110676/R01HL091528	75,882	—
Columbia University	93.838	1(GG012240-01) PO#G12143/ R01HL136753	10,735	—
National Jewish Health	93.838	20101001	(1,052)	—
NIH	93.838	0046691 (130122-1)	10,876	—
Novici Biotech llc.	93.838	R42HL127802	297,205	—
University of Alabama, Birmingham	93.838	000507361-011	16,876	—
University of Pittsburgh	93.838	0046691 (126729-1)	280	—
University of Pennsylvania	93.838	567266/ PO#3891674	18,214	—
University of Washington	93.838	PO# BPO007441/R01HL126536	145,164	—
Vanderbilt University	93.838	5R01HL117074-05	9,824	—
Total Lung Diseases Research			<u>584,004</u>	<u>—</u>
Blood Diseases and Resources Research:				
Children's Hospital Medical Center at the University of Cincinnati	93.839	R01HL095647-05, 136444/PO3100413657	(1,189)	—
National Marrow Donor Program	93.839	Protocol 0801/Protocol 0802/U01 HL069254, Rider 0902	8,879	—
Childrens Research Institute, Inc.	93.839	ACRI 42-001	1,389	—
Total Blood Diseases and Resources Research			<u>9,079</u>	<u>—</u>
Arthritis, Musculoskeletal and Skin Diseases Research:				
Boston University	93.846	P30AR061271	49,488	—
New York University	93.846	17-A1-00-005969-01/PO#M18118639	8,215	—
Pennsylvania State University	93.846	MUSCAR071077	34,343	—
University of California, San Francisco	93.846	9135sc	1,425	—
Total Arthritis, Musculoskeletal and Skin Diseases Research			<u>93,471</u>	<u>—</u>

THE MEDICAL UNIVERSITY OF SOUTH CAROLINA

Schedule of Expenditures of Federal Awards

Year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Pass-through entity identifying number	Federal expenditures	Subrecipients expenditures
Child Health and Human Development Extramural Research:				
Actuated Medical Inc.	93.865	5045-S03	\$ 8,288	—
Duke University	93.865	197946/215519	1,990	—
Emory University	93.865	T142501	4,180	—
Florida State University	93.865	R01961	36,461	—
Northwestern University	93.865	60032241-MUSC	3,664	—
Rehabilitation Institute of Chicago	93.865	R01HD075813	32,757	—
Therabracelet, Inc.	93.865	TB-PHASE1	62,959	—
University of Arkansas	93.865	51460	316	—
University of South Carolina	93.865	16-3004/1R01HD078407-01A1	81,533	—
University of Texas	93.865	UTA16-000438	66,376	—
University of Texas Medical Branch	93.865	18-020 / 18-84287-8	11,370	—
Total Child Health and Human Development Extramural Research			309,894	—
Aging Research:				
University of Alabama, Birmingham	93.866	000517881-003	464	—
Boston University	93.866	4500002168	15,535	—
University of Vermont	93.866	30340 Sub 000. Med USC / R01AG0	108,201	—
Ohio State University	93.866	60061308/ R01AG057046	123,854	—
Total Aging Research			248,054	—
Vision Research:				
Health Research, Inc.	93.867	U10EY11751	1,918	—
Emory University	93.867	T295369/U10EY013272, T478062	13,359	—
Firststring Research, LLC.	93.867	1R43EY028072-01	26,517	—
Jaeb Center for Health Research, Inc.	93.867	U10EY11751	3,708	—
Virginia Commonwealth University	93.867	PD303645-SC105444	26,419	—
Total Vision Research			71,921	—
Brown University	93.273	00000902	4,625	—
Duke University	93.103	207574/215728	16,770	—
Carolina Healthcare System	93.365	3000301054 (A17-0142-S005)	53,463	—
Emory University	93.516	T461306 (T278655)	47,998	—
Health Research, Inc.	93.286	5077-01	(1,378)	—
Inbios International Inc	93.360	ZikaMAZ_1	13,353	—
Beth Israel Deasoness Med. Ctr.	93.134	01029352	89,043	—
National Environmental Education Fdn.	93.070	UE1EH001307	14,195	—
SC DHEC	93.136	HR-7-302	379,391	—
SC Developmental Disabilities Council	93.630	07-21-0005	26,843	—
Sim Tunes LLC	93.823	ST-MUSC001	44,204	—
University of Florida	93.262	UFDSP00012017	5,775	—
University of Ibadan	93.310	3U54HG007479-02S1, 5U54HG007479-03	171,127	—
University of North Carolina	93.945	5102577/U18DP006138	58,406	—
University of South Carolina	93.135	18-3458/USC No. 11570-FB42/PO No. 2000036153	2,979	—
University of Michigan	93.103	SUBK00006767	3,665	—
University of Pittsburgh	93.350	9010902(125998-3)/5UL1TR000005-10	36,445	—

THE MEDICAL UNIVERSITY OF SOUTH CAROLINA

Schedule of Expenditures of Federal Awards

Year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Pass-through entity identifying number	Federal expenditures	Subrecipients expenditures
University of Pittsburgh	93.061	0058310 (130532-1)	\$ 16,749	—
Tufts University	93.350	100107-00007	18,900	—
Harvard University	93.350	149749.5103358.4473	22,423	—
Duke University	93.350	203-8371	4,910	—
University of South Carolina	93.879	15-2793/R01LM011648	39,295	—
University of Maryland, Baltimore	93.879	1600679	9,305	—
Doxy Me, LLC	93.879	Award #1/R41LM012547-01A1	17,539	—
Medstar Health Research Institute	93.879	5,001.285,845	9,001	—
University of Miami	93.161	668329/MT84612	10,973	—
			1,115,999	—
Virginia Commonwealth University	93.433	PT109629-SC105210	338,421	48,048
Shepherd Center	93.433	SHEP-16-007	45,828	—
			384,249	48,048
Duke University	93.unknown	157805/HHSN272200900023C; HHSN272201100025C;	31,050	—
Duke Clinical research institute	93.unknown	201316/HHSN-2752010000031	4,616	—
Icon Clinical institute	93.unknown	NG-BSTP-600-001	628	—
University of Utah	93.unknown	10032034-01/HHSC2612201300017	10,922	—
Leidos Biomedical Research, Inc.	93.unknown	16X109/HHSN261200800001E, PO 1516723	146,417	—
New England research Institute	93.unknown	MUSC12060733/HHSN261201200043C	(940)	—
Westat, Inc.	93.unknown	s8954/HHSN271201100027C, HHSN271200014C	65,413	—
			258,106	—
			14,831,524	48,403
Total U.S. Department of Health and Human Services			132,058,656	14,432,673
U.S. Department of Homeland Security:				
Passed-through programs:				
South Carolina Emergency Management Division	97.017	PDMC-PJ-04-SC-2012-08	2,631	—
			2,631	—
South Carolina Universities Research and Education Foundation	97.130	NF13003, NF13002	12,468	12,468
State of South Carolina	97.unknown	PDMC-PL-04-SC-2010-004	(12,160)	—
			2,939	12,468
Total U.S. Department of Homeland Security			2,939	12,468
Total Research and Development Cluster			143,848,293	15,468,644

THE MEDICAL UNIVERSITY OF SOUTH CAROLINA

Schedule of Expenditures of Federal Awards

Year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Pass-through entity identifying number	Federal expenditures	Subrecipients expenditures
Student Financial Assistance Cluster:				
U.S. Department of Education:				
Direct programs:				
Federal Supplemental Educational Opportunity Grants	84.007	NA	\$ 21,089	—
Federal Work-Study Program	84.033	NA	295,433	—
Federal Perkins Loan Program	84.038	NA	6,687,474	—
Federal Direct Student Loans	84.268	NA	89,699,474	—
Federal Pell Grant Program	84.063	NA	<u>224,406</u>	<u>—</u>
Total U.S. Department of Education			<u>96,927,876</u>	<u>—</u>
U.S. Department of Health and Human Services:				
Direct programs:				
Nurse Faculty Loan Program	93.264	NA	<u>170,198</u>	<u>—</u>
Total U.S. Department of Health and Human Services			<u>170,198</u>	<u>—</u>
Total Student Financial Assistance Cluster			<u>97,098,074</u>	<u>—</u>
Other programs:				
U.S. Department of Agriculture				
Direct programs:				
SC Department of Education	10.555	NA	<u>117,527</u>	<u>—</u>
Total U.S. Department of Agriculture			<u>117,527</u>	<u>—</u>
U.S. Department of Defense:				
Direct programs:				
U.S. Department of Defense	12.420	NA	<u>6,323</u>	<u>—</u>
Total U.S. Department of Defense			<u>6,323</u>	<u>—</u>
U.S. Department of Justice:				
Direct programs:				
Office of Victims of Crime	16.321	NA	815,270	226,724
Passed-through programs:				
South Carolina Department of Public Safety	16.575	1V07267, 1V13083, 1V06105, 1V14080, 1V14117, 1V15130, 1V15129	1,296,113	—
South Carolina Department of Public Safety	16.588	1K14011, 1K15011, 1K15026	57,448	—
South Carolina Department of Public Safety	16.582	2009-VF-GX-K009 ; 2016-XV-GX-K021	<u>163,933</u>	<u>—</u>
			<u>1,517,494</u>	<u>—</u>
Total U.S. Department of Justice			<u>2,332,764</u>	<u>226,724</u>
U.S. Department of Homeland Security:				
Direct programs:				
Assistance to Firefighters Grant	97.044	NA	<u>383,355</u>	<u>—</u>
Total U.S. Department of Homeland Security			<u>383,355</u>	<u>—</u>

THE MEDICAL UNIVERSITY OF SOUTH CAROLINA

Schedule of Expenditures of Federal Awards

Year ended June 30, 2018

Federal grantor/pass-through grantor/program title	Federal CFDA number	Pass-through entity identifying number	Federal expenditures	Subrecipients expenditures
National Science Foundation:				
Direct programs:				
National Science Foundation	47.076	NA	\$ 103,228	14,796
National Science Foundation	47.075	NA	<u>15,000</u>	<u>—</u>
Total National Science Foundation			<u>118,228</u>	<u>14,796</u>
U.S. Department of Vetern Affairs				
Direct Programs:				
U.S. Department of Vetern Affairs – Other Federal	64.unknown	NA	<u>45,051</u>	<u>—</u>
Total U.S Department of Vetern Affairs			<u>45,051</u>	<u>—</u>
U.S. Department of Energy:				
Direct programs:				
U.S. Department of Energy	81.136	NA	<u>1,092,880</u>	<u>363,490</u>
Total U.S. Department of Energy			<u>1,092,880</u>	<u>363,490</u>
U.S. Department of Health and Human Services:				
Direct programs:				
Health Resources and Services Administration	93.110	NA	13,111	—
Health Resources and Services Administration	93.124	NA	40,671	—
Health Resources and Services Administration	93.153	NA	54,697	—
Health Resources and Services Administration	93.191	NA	221,615	—
Substance Abuse and Mental Health Services Administration	93.243	NA	751,356	—
Health Resources and Services Administration	93.247	NA	549,162	34,951
Health Resources and Services Administration	93.358	NA	(259)	—
Health Resources and Services Administration	93.510	NA	1,188	—
Centers for Medicare and Medicaid Services	93.611	NA	(1,168)	—
Health Resources and Services Administration	93.732	NA	<u>76,275</u>	<u>—</u>
			<u>1,706,648</u>	<u>34,951</u>

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2018

<u>Federal grantor/pass-through grantor/program title</u>	<u>Federal CFDA number</u>	<u>Pass-through entity identifying number</u>	<u>Federal expenditures</u>	<u>Subrecipients expenditures</u>
Passed-through programs:				
Lupus Foundation of America	93.004	1CPIMP161122-01-00	\$ 3,049	—
South Carolina Department of Health and Environmental Control	93.130	PC-4-779	9,961	—
SC Office of Rural Health	93.241	1R01MH095208-02	124,571	—
Children's Trust of South Carolina	93.505	S-MIEC-F-2014-6-1, S-MIEC-E-2013-5-3	420,820	—
South Carolina Department of Social Services	93.575	4400010438, 4400009131	1,544,966	—
SC Dept of Alcohol and Drug Abuse	93.788	T1080221/MUSC-STR-17	401,567	—
SimTunes Inc.	93.823	HT0011-16-C-035	90,113	—
South Carolina Department of Health and Environmental Control	93.917	HV-6-501	<u>2,078,606</u>	—
			<u>4,673,653</u>	—
Total U.S. Department of Health and Human Services			<u>6,380,301</u>	<u>34,951</u>
Total Other Programs			<u>10,476,429</u>	<u>639,961</u>
Total federal expenditures			<u>\$ 251,422,796</u>	<u>16,108,605</u>

\* Denotes a major program

See accompanying notes to schedule of expenditures of federal awards.

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**

Notes to Schedule of Expenditures of Federal Awards

Year ended June 30, 2018

**(1) Basis of Presentation**

The accompanying schedule of expenditures of federal awards (the schedule) includes the federal grant activity of the Medical University of South Carolina (the University) and is presented on the accrual basis of accounting. The information in the schedule is presented in accordance with the requirements of *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* at Title 2 U.S. Code of Federal Regulation Part 200 (Uniform Guidance). Therefore, some amounts presented in the schedule may differ from amounts presented in, or used in the preparation of the basic financial statements.

**(2) Summary of Significant Accounting Policies for Federal Award Expenditures**

Expenditures for student financial aid programs include the federal share of students' Federal Supplemental Educational Opportunity Grant (FSEOG) program grants and Federal Work Study (FWS) program earnings, certain other federal financial aid for students, and administrative cost allowances, where applicable. Federal Pell grant awards are recognized as agency transactions and are not recorded as expenditures in the financial statements.

Expenditures for federal research and development programs are determined using the cost accounting principles and procedures set forth in OMB Circular A-21, *Cost Principles for Educational Institutions*. Under these cost principles, certain expenditures are not allowable or are limited as to reimbursement.

**(3) Noncash Assistance**

Most federal financial assistance is in the form of cash awards. However, there are a number of federal programs that do not involve cash transactions with the University. These noncash transactions in which the University obtains other assistance are the Federal Direct Student Loan Program, which includes the Federal Direct Stafford Student Loan program (subsidized and unsubsidized) and the Federal Direct Parent Loans for Undergraduate Students (PLUS).

The loans advanced and related expenditures are as follows for the various student loan programs:

	<b>CFDA number</b>	<b>Amount</b>
Federal Perkins Loan Program:		
Student loans advanced	84.038	\$ 528,609
Cancellation of loans		64,631
Total Federal Perkins Loan Program		\$ 463,978
Federal Direct Student Loan Program – Student loans advanced:	84.268	
Direct Stafford Loan Program		\$ 1,048,135
Direct Unsubsidized Stafford Loan Program		56,698,649
Federal Direct PLUS Loan Program		619,708
Federal Direct Graduate PLUS Loan Program		31,332,982
Total Federal Direct Student Loan Program		\$ 89,699,474

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**  
Notes to Schedule of Expenditures of Federal Awards  
Year ended June 30, 2018

	<b>CFDA number</b>	<b>Amount</b>
Health Professions Student Loans, including Primary Care Loans/Loans for disadvantaged students:		
Loans advanced	93.342	\$ <u>564,000</u>
Total Health Professions Student Loans		\$ <u><u>564,000</u></u>

The Federal Perkins Loan, the Health Professions Student Loan (HPSL), and the Nurse Faculty Loan (NFLP) programs are administered directly by the University, and balances and transactions relating to these programs are included in the University's basic financial statements. The balance of loans outstanding under the Federal Perkins, HPSL, and Nurse Faculty Loan programs were \$4,958,266.10, \$4,571,543.85, and \$1,140,844.37, respectively, as of June 30, 2018.

The University is responsible only for the performance of certain administrative duties with respect to the guaranteed student loan programs, and accordingly, these loans are not included in its financial statements. It is not practicable to determine the balance of loans outstanding to students and former students of the University under these programs as of June 30, 2018.

**(4) Matching**

Under the Federal Work Study Program (FWS) program, the University matched \$66,900 in total compensation for the year ended June 30, 2018 in addition to the federal share of expenditures in the accompanying schedule of expenditures of federal awards.

Under the FSEOG program, the University matched \$4,867 in funds awarded to students for the year ended June 30, 2018 in addition to the federal share of expenditures in the accompanying schedule of expenditures of federal awards.

**(5) Indirect Cost Rate**

The University did not elect to use the 10% de minimis indirect cost rate as discussed in Uniform Guidance Section 200.414.



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## **Independent Auditors' Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with *Government Auditing Standards***

The Board of Trustees  
Medical University of South Carolina  
Charleston, South Carolina:

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities, the major fund, the aggregate remaining fund information, and the discretely presented component units of the Medical University of South Carolina (the University) as of and for the year ended June 30, 2018, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated October 1, 2018. Our report includes a reference to other auditors who audited the financial statements of the Medical University of South Carolina Foundation and the MUSC Foundation for Research Development, as described in our report on the University's financial statements. This report does not include the results of the other auditors' testing of internal control over financial reporting or compliance and other matters that are reported on separately by those auditors.

### **Internal Control over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the University's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

### **Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the University's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those



provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

**Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the University's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

KPMG LLP

Greensboro, North Carolina  
October 1, 2018



KPMG LLP  
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**Independent Auditors' Report on Compliance for Each Major Federal Program;  
Report on Internal Control over Compliance; and Report on Schedule of Expenditures  
of Federal Awards Required by the Uniform Guidance**

The Board of Trustees  
the Medical University of South Carolina  
Charleston, South Carolina:

**Report on Compliance for Each Major Federal Program**

We have audited the Medical University of South Carolina's (the University) compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on the University's major federal program for the year ended June 30, 2018. The University's major federal program is identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

The University's basic financial statements include the operations of the Medical University Hospital Authority (the Authority), which received \$470,716,234 in federal awards, which is not included in the schedule of expenditures of federal awards for the year ended June 30, 2018. Our audit, described below, did not include the operations of the Authority because the Authority's federal awards are separately audited in accordance with the Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance).

*Management's Responsibility*

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

*Auditors' Responsibility*

Our responsibility is to express an opinion on compliance for the University's major federal program based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Uniform Guidance. Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for the major federal program. However, our audit does not provide a legal determination of the University's compliance.

*Opinion on Each Major Federal Program*

In our opinion, the Medical University of South Carolina complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on its major federal program for the year ended June 30, 2018.



## **Report on Internal Control over Compliance**

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University's internal control over compliance with the types of requirements that could have a direct and material effect on the major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A material weakness in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A significant deficiency in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.



### **Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance**

We have audited the financial statements of the business-type activities, the aggregate discretely presented component units, each major fund, and the aggregate remaining fund information of the University as of and for the year ended June 30, 2018 and have issued our report thereon dated October 1, 2018, which contained an unmodified opinion on those financial statements. Our report includes a reference to other auditors who audited the financial statements of the Medical University of South Carolina Foundation and the MUSC Foundation for Research Development, as described in our report on the University's financial statements. Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated in all material respects in relation to the financial statements as a whole.

*KPMG LLP*

Greensboro, North Carolina  
December 3, 2018

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**

Schedule of Findings and Questioned Costs

Year ended June 30, 2018

**(1) Summary of Auditors' Results**

- (a) Type of report issued on whether the financial statements were prepared in accordance with generally accepted accounting principles: **Unmodified**
- (b) Significant deficiencies in internal control were disclosed by the audit of the consolidated financial statements: **None reported** Material weaknesses: **No**
- (c) Noncompliance which is material to the financial statements: **No**
- (d) Significant deficiencies in internal control over major program: **None reported**; Material weaknesses: **No**
- (e) The type of report issued on compliance for the major program: **Unmodified**
- (f) Any audit findings, which are required to be reported under Section 2 CFR 200.516(a) of Uniform Guidance: **No**
- (g) Major program: **Research and Development Cluster (various CFDA numbers)**
- (h) Dollar threshold used to distinguish between Type A and Type B programs: **\$3,000,000**
- (i) Auditee qualified as a low risk auditee under Section 200.520 of Uniform Guidance: **Yes**

**(2) Findings Relating to the Financial Statements Reported in Accordance with *Government Auditing Standards***

None

**(3) Findings and Questioned Costs Relating to Federal Awards**

None