



**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**  
Federal Award Program Reports in Accordance with the Uniform  
Guidance  
Year Ended June 30, 2017  
(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, 2017

<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>Pass-through expenditures</u>
Research and Development Cluster*:				
U.S. Department of Commerce:				
Passed-through programs:				
South Carolina Sea Grant Consortium	11.609	NA	\$ 160,760	—
Total U.S. Department of Commerce			<u>160,760</u>	<u>—</u>
U.S. Department of Defense:				
Direct programs:				
Department of the Navy, Office of the Chief of Naval Research	12.300	NA	274,858	34,233
U.S. Army Medical Command	12.420	NA	3,096,611	307,074
Genetic Anatomy of Sleep	12.431	NA	296,555	—
			<u>3,668,024</u>	<u>341,307</u>
Passed-through programs:				
Military Medical Research and Development:				
Charleston Research Institute	12.420	W81XWH-08-2-0047	53,807	—
RTI International	12.420	4-312-0215031-52780L	15,846	—
University of Arizona	12.420	294773	30,057	—
University of California	12.420	2015-3287, W81XWH-15-1-0696	14,940	—
University of California, San Francisco	12.420	PO 8739sc/W23RYX2111N603; 8740sc/ W81XWH-12-2-0048; W81XWH-13-2-0075	553,087	—
University of Central Florida	12.420	24096033	30,289	—
University of Pennsylvania	12.420	560165; 3547981/W81XWH-12-2-0116; PO # 3518066 567650/10050415/16638;	48,532	—
Veterans Education and Research Association of Michigan	12.420	V-SUBMUSC-11-30/W81XWH-11-1-0073	475,494	—
Veterans Medical Research Foundation	12.420	08409-308021	4,133	—
Total Military Medical Research and Development			<u>1,226,185</u>	<u>—</u>
Institute for Molecular Neuroscience	12.unknown	804-237	(1,406)	—
University of Maryland	12.unknown	0000011190/W912HQ-12-C-00	23,146	—
Tissue Testing Technology, LLC	12.unknown	H151-013-0162	5,284	—
			<u>1,253,209</u>	<u>—</u>
Total U.S. Department of Defense			<u>4,921,233</u>	<u>341,307</u>
U.S. Department of Justice:				
Direct programs:				
National Institute of Justice	16.560	NA	144,216	—
Victims Issues Related to Prison Rape and Sexual Assault	16.580	NA	(3,938)	—
Total U.S. Department of Justice			<u>140,278</u>	<u>—</u>
National Aeronautics and Space Administration:				
Direct programs:				
Exploration	43.003	NA	179,726	—

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Passed-through programs:				
College of Charleston	43.008	18-SG-MUSC, 521179-PA-MUBarth	\$ 13,825	—
Integrated Mission Support Services	43.unknown	IMSS-MSA-16-0019/NNK160B01C	<u>44,707</u>	<u>—</u>
Total National Aeronautics and Space Administration			<u>238,258</u>	<u>—</u>
National Science Foundation:				
Direct programs:				
Biological Sciences	47.041	NA	96,042	—
International Science and Engineering (OISE)	47.079	NA	<u>790,374</u>	<u>424,431</u>
			<u>886,416</u>	<u>424,431</u>
Passed-through programs:				
College of Charleston	47.050	521151-MUSC	46,746	—
College of Charleston	47.041	IIP-0917987	3,440	—
University of South Carolina	47.079	15-2841, 15-2842, 15-2843, 15-2836, 16-3035	20,017	—
University of South Carolina and SC Research Authority	47.081	14-2441, 15-2867, 13-2359	<u>41,885</u>	<u>—</u>
			<u>112,088</u>	<u>—</u>
Total National Science Foundation			<u>998,504</u>	<u>424,431</u>
U.S. Department of Veteran Affairs:				
Direct programs:				
U.S. Department of Veteran Affairs – Other Federal	64.unknown	NA	<u>2,420,502</u>	<u>—</u>
Total U.S. Department of Veteran Affairs			<u>2,420,502</u>	<u>—</u>
U.S. Department of Energy:				
Direct programs:				
Medical Surveillance of Former Department of Energy Workers	81.108	NA	530	—
Advanced Research and Projects Agency Energy Financial Assistance Program	81.135	NA	<u>(8,755)</u>	<u>—</u>
			<u>(8,225)</u>	<u>—</u>
Passed-through programs:				
South Carolina Universities Research and Education Foundation	81.121	DENE009/DE-NE0000393, DENE003/DE-NE0000393, DE005, DENE004, NRLF001/DE-NR0000633	1,307	—
South Carolina Universities Research and Education Foundation	81.unknown	DE-FG07-05ID14692/IDNE015	<u>76,583</u>	<u>—</u>
			<u>77,890</u>	<u>—</u>
Total U.S. Department of Energy			<u>69,665</u>	<u>—</u>
U.S. Department of Education:				
Direct programs:				
Graduate Assistance in Areas of National Need	84.200	NA	<u>236,885</u>	<u>—</u>
Total U.S. Department of Education			<u>236,885</u>	<u>—</u>

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Schedule of Expenditures of Federal Awards

Year ended June 30, 2017

Federal grantor/pass-through grantor/program title	Federal CFDA number	Pass-through entity identifying number	Federal expenditures	Pass-through expenditures
U.S. Department of Health and Human Services:				
Direct programs:				
Family Smoking Prevention and Tobacco Control Act Regulatory Research	93.077	NA	\$ 88,019	1,349
Maternal and Child Health Federal Consolidated Programs	93.110	NA	763,059	222,044
Environmental Health	93.113	NA	298,540	—
Oral Diseases and Disorders Research	93.121	NA	2,300,982	9,539
Nurse Anesthetist Traineeships	93.124	NA	38,050	—
Research Related to Deafness and Communication Disorders	93.173	NA	4,250,200	382,706
Research Training in Complementary and Alternative Medicine	93.213	NA	484,959	—
Research on Healthcare Costs, Quality and Outcomes	93.226	NA	1,814,043	—
Grants for Dental Public Health Residency Training	93.236	NA	435,527	310,500
Mental Health Research Grants	93.242	NA	3,734,764	909,756
Substance Abuse and Mental Hlth Svs_Projects of Regional and National Significance	93.243	NA	296,325	—
Alcohol Research Programs	93.273	NA	7,579,272	—
Drug Abuse and Addiction Research Programs	93.279	NA	15,072,098	962,635
Centers for Disease Control and Prevention, Investigations and Technical Assistance	93.283	NA	(3,097)	—
Discovery and Applied Rsch for Technological Innovations to Improve Human Health	93.286	NA	293,597	—
Minority Health and Health Disparities Research	93.307	NA	1,854,390	158,210
Environmental Contributors to Child Health Originating from National Fetal Growth Study	93.310	NA	688,041	266,887
National Center for Advancing Translational Sciences	93.350	NA	4,561,532	175,495
Research Infrastructure Programs	93.351	NA	406,997	—
Nurse Education, Practice and Retention Grants	93.359	NA	541,395	221,581
Nursing Research	93.361	NA	859,081	79,540
National Center for Research Resources	93.389	NA	39,481	—
Cancer Cause and Prevention Research	93.393	NA	4,213,468	2,529,854
Cancer Detection and Diagnosis Research	93.394	NA	498,413	—
Cancer Treatment Research	93.395	NA	4,126,419	394,478
Cancer Biology Research	93.396	NA	5,612,019	749,626
Cancer Centers Support Grants	93.397	NA	2,283,088	89,570
Cancer Research Manpower	93.398	NA	1,270,587	47,797
ACL National Institute on Disability, Independent Living, and Rehabilitation Research	93.433	NA	1,404,297	60,563
Refugee and Entrant Assistant	93.583	NA	1,018,082	36,853
Trans-NIH Recovery Act Research Support	93.701	NA	239	—
Surveillance for Diseases among immigrants and refugees	93.755	NA	268,978	—
Cardiovascular Diseases Research	93.837	NA	5,438,471	101,392
Lung Disease Research	93.838	NA	(981)	—
Blood Diseases and Resources Research	93.839	NA	398,806	16,126
Arthritis, Musculoskeletal and Skin Diseases Research	93.846	NA	3,101,470	35,997
Diabetes, Digestive and Kidney Diseases Extramural Research	93.847	NA	9,265,926	977,241
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853	NA	4,882,616	440,115
Allergy, Immunology and Transplantation Research	93.855	NA	2,628,829	25,495
Biomedical Research and Research Training	93.859	NA	10,830,379	390,484
Child Health and Human Development Extramural Research	93.865	NA	2,314,645	158,698
Agging Research	93.866	NA	2,550,585	1,464,251
Vision Research	93.867	NA	1,220,738	71,861

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Grants for Training in Primary Care Medicine and Dentistry	93.884	NA	\$ 967,869	131,325
International Research and Research Training	93.989	NA	174,542	29,741
Other Federal Assistance	93.unknown	NA	537,281	—
			<u>111,404,021</u>	<u>11,451,709</u>
National Institutes of Health:				
ARRA Trans-NIH Recovery Act Research Support	93.701	NA	239	—
Total National Institutes of Health			<u>239</u>	<u>—</u>
Passed-through programs:				
Research on Healthcare Costs, Quality and Outcomes:				
Albert Einstein College of Medicine	93.226	PO# 529678/310939/R01HS024432, 310809	75,467	—
Duke University	93.226	2035835	13,446	—
Clemson University	93.226	1824-209-2010985	103,508	7,105
Seattle Children's Hospital	93.226	11510SUB,U18HS025291	39,661	—
Total Research on Healthcare Costs, Quality and Outcomes			<u>232,082</u>	<u>7,105</u>
Drug Abuse and Addiction Research Programs:				
American Academy of Child and Adolescent Psychiatry	93.279	K12DA000357	9,767	—
Columbia University	93.279	3(GG010654-01)/R01DA043130-01	63,832	—
Duke University	93.279	2035747	43,407	—
eTect, Inc.	93.279	E2015001/R44DA0326277	(9,334)	—
Yale University	93.279	M16A12364/(A10375)	4,843	—
JT Pharmaceuticals	93.279	R43DA036398	(632)	—
University of California, San Diego	93.279	83071603 (MP Invoice # S90010568)	178,172	—
University of Pennsylvania	93.279	PO268699/R01DA011809	(19)	—
University of Utah	93.279	10042182	14,017	—
Total Drug Abuse and Addiction Research Programs			<u>304,053</u>	<u>—</u>
Cancer Treatment Research:				
CanCue, LLC	93.395	89,999	63,400	—
Children's Hospital of Philadelphia	93.395	FP00013744_SUB90_01/U10CA095861; FP15221_SUB83_01/U10CA180886; FP00015221_SUB294_01/U10CA180886	18,699	—
Leukogene Therapeutics	93.395	1R41CA180255-01	57,388	—
Loyola University Chicago	93.395	P01CA154778	308,248	—
Radiation Therapy Oncology Group	93.395	U10CA21661/RTOG #4501	3,296	—
University of Maryland, Baltimore	93.395	1600856	1,071	—
Total Cancer Treatment Research			<u>452,102</u>	<u>—</u>
Biomedical Research and Research Training:				
Actuated Medical, Inc.	93.859	5038-S02	1,567	—
Arizona State University	93.859	14-425/1R01GM093229-01	34,523	—
Beckamn Research Ist of the City of Hope	93.859	52487 2001929 669201	10,523	—
Children's Hospital Medical Center at the University of Cincinnati	93.859	R01GM067202	(1,406)	—
Clinacuity Inc.	93.859	1/1R41GM116479-01	48,484	—

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Clemson University	93.859	NA	\$ 26,940	—
Mitohealth, Inc.	93.859	1R43GM097770-01A1	(145)	—
Nubad LLC	93.859	F-NEO II (R42GM097917)	1,262	—
Texas A&M University	93.859	06-S140680/1R01GM111672-01	(83)	—
University of Delaware	93.859	34379/U54GM104941	657,847	26,829
University of South Carolina	93.859	15-2742/P20GM103499; 22050-Z187	400,384	—
Total Biomedical Research and Research Training			<u>1,179,896</u>	<u>26,829</u>
CDC Investigations and Technical Assistance:				
Association for Prevention Teaching and Research	93.283	15-06-IPE	(68)	—
South Carolina Cancer Alliance	93.283	CY-15-006/5U58DP003942-03	(5,316)	—
Total CDC Investigations and Technical Assistance			<u>(5,384)</u>	<u>—</u>
Allergy and Infectious Diseases:				
Benaroya Research Institute	93.855	FY14ITN121/UM1A1109565	53,986	—
Brigham and Women's Hospital	93.855	5U01AI063623-07	3,823	—
Duke University	93.855	203-4118/U19A1056363, 2032049, 201209/ UM1A1109565, 2033041	12,802	—
Massachusetts General Hospital	93.855	5UM1A1068636-09	11,797	—
Northwestern University	93.855	60024957/U01AI084146	16,368	—
University of California, San Francisco	93.855	9278SC/UM1A1110498	22,737	—
Total Allergy and Infectious Diseases			<u>121,513</u>	<u>—</u>
Cardiovascular Diseases Research:				
Beth Israel Deaconess Medical Center	93.837	01026527	77,370	—
Bringham and Women's hospstak	93.837	NA	10,717	—
Cincinnati Children's Hospital	93.837	137829	363	—
Children's Hospital of Wisconsin	93.837	U10HL068270	8	—
Duke University	93.837	161411/187937/4r01hl098237-03	1,246	—
Emory University	93.837	T451931/U01HL128566	26,828	—
FirstStrong Research LLC.	93.837	NA	77,091	—
Johns Hopkins University	93.837	2001433034/R34HL108756	(16,258)	—
Massachusetts General Hospital	93.837	225898/R01HL127692, NA	70,109	—
New England Research Institutes	93.837	NA, U01HL107407-01A1	10,717	—
Novici Biotech LLC	93.837	R42HL127802	318,695	—
Pediatric Heart Network	93.837	NA/U10HL068270	3,392	—
Seattle Children Hospital	93.837	11210SUB/UM1HL119073	18,853	—
Temple University	93.837	361318-04400-7341-02	62,581	—
Tissue Testing Technology LLC	93.837	1R01HL127618	11,435	—
University of Alabama, Birmingham	93.837	000503570-026	2,775	—
University of Pennsylvania	93.837	567266	25,188	—
University of Utah	93.837	10032734-04/U10HL068270	1,876	—
Weill Cornell Medical College	93.837	15060903-06; 15121982-03	41,940	—
Yale University	93.837	M16A12329 (A10472)	106,124	—
Total Cardiovascular Diseases Research			<u>851,050</u>	<u>—</u>

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Extramural Research Programs in the Neurosciences and Neurological Disorders:				
Beth Israel Deaconess Medical Center	93.853	1028180; 01027587	\$ 333,089	—
Columbia University	93.853	2(GG012006-01)/1U01NS095869-01	64,833	—
College of Wisconsin	93.853	5R01NS035929-12	(9,024)	—
Emory University	93.853	T062273/ 5U01NS062778-05; 5R01NS071867-05; T235047/R01NS064162	60,847	—
Johns Hopkins University	93.853	2002274191/U01NS080824	35,120	—
Massachusetts General Hospital	93.853	R01NS073344; Site #182	41,036	—
Mayo Clinic, Jacksonville	93.853	U01NS080168; 64586470	561,566	13,213
Medical College of Wisconsin	93.853	R01NS035929/PO 1570642	142	—
Neuroene Therapeutics	93.853	NA	109,000	—
Northwestern University	93.853	60036745 MUSC/U01NS080818	69,589	—
Optima Neuroscience, Inc.	93.853	OPT-005-MUSC	26,558	—
Recovr, Inc.	93.853	MUSC-RECVR-1	146,833	—
Rutgers University	93.853	Index#107881	44,571	—
Stanford University	93.853	61121063-116661	316,165	—
Temple University	93.853	361248-05430-02/PO306220	12,118	—
University of California, Irvine	93.853	2015-3160, U01NS091951; U01NS091951-126258	116,094	—
University of California, San Francisco	93.853	7385sc	315,696	—
University of Cincinnati	93.853	008822-Adm-Chimowitz; 005695; 006784	104,907	—
University of Miami	93.853	662706/R01NS084288, 665164/MS87676/U54NS092091	14,879	—
University of Texas, San Antonio	93.853	26-1614-40 musc/u54ns060658	(1,297)	—
University of Texas Health Science Center at Houston	93.853	0009321A/5U01NS043127-13	11,032	—
University of Virginia	93.853	GC12107-149702	236,717	—
Total Extramural Research Programs in the Neurosciences and Neurological Disorders			2,610,471	13,213
Diabetes, Digestive, and Kidney Diseases:				
Bite Technologies, LLC	93.847	MUSC-01 R42DK091141	139,375	—
Case Western Reserve University	93.847	RES51001S; RES508609/DP3DK101074; RES509463/DP3DK104438	177,269	—
Duke University	93.847	2034860/R01DK103534; U01DK065176	45,369	—
Emmes Corporation	93.847	UC4DK098086	18,946	—
Emory University	93.847	T175542 R01DK087694	8,820	—
Mitohealth, Inc.	93.847	1R43DK103440 01	1,724	—
Research Institute at Nationwide Childrens Hospital	93.847	952614/UM1DK100866	15,732	—
Tufts Medical Center	93.847	5008749-SERV	31,615	—
University of Arkansas	93.847	50709/POG160101529	114,452	—
University of Alabama at Birmingham	93.847	000508172-SP001-001 / P30DK074038	4,026	—
University of Minnesota	93.847	N005115007	19,097	—
University of New Mexico Health Sciences Center	93.847	3RA95/R01DK083424-03	2,208	—
University of North Carolina	93.847	5103162; 5-31698	63,351	—
University of South Florida	93.847	Site #3422	4,202	—
University of Texas Southwestern Medical Center	93.847	GMO 161108/U01DK058369; GMO121105; 160105- STOP ALF/2U01DK058369-16	141,553	—
Total Diabetes, Digestive, and Kidney Diseases			787,739	—

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Smoking Prevention and Tobacco Control Act:				
Health Research, Inc.	93.077	U19CA157345	\$ 8,240	—
Total Smoking Prevention and Tobacco Control Act			<u>8,240</u>	<u>—</u>
Environmental Health:				
Carbonix LLC	93.113	SBIR-II-Sub-MUSC-1, 5R44ES019790-003 REV	207	—
Mitohealth, Inc.	93.113	2R44ES019378-02, NA	(1,482)	—
University of Louisville	93.113	ULRF 16-0886	14,047	—
Total Environmental Health			<u>12,772</u>	<u>—</u>
Oral Diseases and Disorders Research:				
Clemson University	93.121	1602-209-2008855/R01DE021134	112,892	—
Cure Innovations LLC	93.121	R41DE026085MUSC-01	69,582	—
JT Pharmaceuticals	93.121	1R43DE025162	40,178	—
New York University	93.121	PO#M170053458/15-A0-00-00463	8,566	—
University of Alabama at Birmingham	93.121	000412838-038/U19DE022516	43,435	—
Total Oral Diseases and Disorders Research			<u>274,653</u>	<u>—</u>
Human Genome:				
Pennsylvania State University	93.172	5115-MUSC-NHGRI-7111	3,207	—
University of Pennsylvania	93.172	567221/10028487/14984/ U01HG006398	(62,064)	—
Total Human Genome			<u>(58,857)</u>	<u>—</u>
Research Related to Deafness and Communication Disorders:				
Communication Disorders Technology, Inc.	93.173	CDT/MUSC01/R21 DC011174-0	10,866	—
Duke University	93.173	203-8626/U24DC012079	25,515	—
Johns Hopkins University	93.173	2001191161/R01DC011290-0	34,427	—
Oregon Health Sciences University	93.173	GOTOL0195A_MUSC/R01DC005805,	166,379	—
University of Georgia	93.173	R01DC009029	1,100	—
University of South Carolina	93.173	16-3088; 16-3102; 16-3078 PO2000022311	704,361	—
Total Research Related to Deafness and Communication Disorders			<u>942,648</u>	<u>—</u>
Research and Training in Complementary and Integrative Health:				
University of Utah	93.213	10041186	7,149	—
Total Research and Training in Complementary and Integrative Health			<u>7,149</u>	<u>—</u>
Mental Health:				
Children's Hospital of San Diego	93.242	RC10040101300PCRES1000117Y0	(2,680)	—
Dartmouth College	93.242	365/P60 MH082598	(2)	—
Johns Hopkins University	93.242	2002300708	23,581	—
University of California at Los Angeles	93.242	1560 G TA449, R01MH105534	23,236	—
University of Maryland	93.242	SROOOO2139/R01MH094489	53,640	—
University of Minnesota	93.242	N005531701	297,019	—
University of Pennsylvania	93.242	568643/10050255/19041 00/R01MH10855	11,110	—
Total Mental Health			<u>405,904</u>	<u>—</u>

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Minority Health and Health Disparities Research:				
University of Pittsburgh	93.307	5R24MD001594-08	\$ 6,018	—
Mountainpass Technologies	93.307	11-195/P20MD001770-07	25,729	—
University of Texas Health Science Center at Houston	93.307	U24MD006941	43,714	—
Total Minority Health and Health Disparities Research			<u>75,461</u>	<u>—</u>
National Center for Research Resources:				
Clemson University	93.389	P20GM103444	251,186	—
University of South Carolina	93.389	08-1547, P20RR016461	(2,129)	—
LAM Foundation	93.389	NA	7,903	—
Total National Center for Research Resources			<u>256,960</u>	<u>—</u>
Cancer Cause and Prevention Research:				
Health Research, Inc.	93.393	R01CA151953	4,224	—
Duke University	93.393	R01CA142081-04	75	—
Clinacuity, INC	93.393	Award #2/R42CA180190-02A1	122,374	—
New York University	93.393	13-A1-00-110806-01	15,040	—
Mayo Clinic	93.393	MED-214865/PO#64722691,P01CA	249,720	—
University of Illinois at Chicago	93.393	U01CA154248	394	—
John Hopkins University	93.393	2002995989	211,767	—
University of South Carolina	93.393	R01CA167067	29,717	—
Yale University	93.393	M17A12515 (A10723)	15,831	—
Total Cancer Cause and Prevention Research			<u>649,142</u>	<u>—</u>
Cancer Detection and Diagnosis Research:				
Eastern Virginia Medical School	93.394	1R21CA175894-01A1	10,611	—
University of Virginia	93.394	GB10021-152008	21,857	—
University of North Carolina	93.394	5102436, U01CA189281	284,360	—
Total Cancer Detection and Diagnosis Research			<u>316,828</u>	<u>—</u>
Cancer Biology Research:				
University of Missouri, Columbia	93.396	C00053468-2, RO1CA164335	211	—
University of North Carolina	93.396	5100673/R21CA178550	11,286	—
University of Pennsylvania	93.396	10043764/565016/9924/01/2POICA098101-12; 565395/2P01CA104838-11; 562354	890,446	—
Total Cancer Biology Research			<u>901,943</u>	<u>—</u>
Cancer Centers Support Grants:				
University of North Carolina	93.397	5031450/USCA151652-02, 5033096	17,743	—
Yale University	93.397	M16A12299(A10417)	18,958	—
Total Cancer Centers Support Grants			<u>36,701</u>	<u>—</u>

THE MEDICAL UNIVERSITY OF SOUTH CAROLINA

Schedule of Expenditures of Federal Awards

Year ended June 30, 2017

Federal grantor/pass-through grantor/program title	Federal CFDA number	Pass-through entity identifying number	Federal expenditures	Pass-through expenditures
Lung Diseases Research:				
Brigham and Women's Hospital	93.838	110676/R01HL091528	\$ (3,328)	—
Case Western Reserve University	93.838	RES508337/R01HL109293	729	—
Indiana University	93.838	IN4687728MUSC/R56HL125043	—	—
National Jewish Health	93.838	20101001	28,093	—
University of Alabama, Birmingham	93.838	000507361-011	31,200	—
University of California at Los Angeles	93.838	1460GKB111	(150)	—
University of California, San Francisco	93.838	6172SC/U01HL094338-01	3,942	—
University of Pittsburgh	93.838	0046691 (126729-1)	11,044	—
University of Washington	93.838	PO# BPO007441/R01HL126536	102,620	—
Total Lung Diseases Research			<u>174,150</u>	<u>—</u>
Blood Diseases and Resources Research:				
Children's Hospital Medical Center at the University of Cincinnati	93.839	R01HL095647-05, 136444/PO3100413657	(6,055)	—
National Marrow Donor Program	93.839	Protocol 0801/Protocol 0802/U01 HL069254, Rider 0902	9,285	—
Washington University	93.839	WU-11-281/U01 HL088476-03	(5,754)	—
Total Blood Diseases and Resources Research			<u>(2,524)</u>	<u>—</u>
Arthritis, Musculoskeletal and Skin Diseases Research:				
Boston University	93.846	P30AR061271	59,801	—
Children's Hospital Medical Center at the University of Cincinnati	93.846	105514/P60AR047784-07	(864)	—
Jackson Laboratory	93.846	AR056635-05	(1,520)	—
Loyola University Chicago	93.846	1R01AR057643-01A2	(489)	—
University of California, San Francisco	93.846	9135sc	95	—
Total Arthritis, Musculoskeletal and Skin Diseases Research			<u>57,023</u>	<u>—</u>
Child Health and Human Development Extramural Research:				
Emory University	93.865	T142501	21,248	—
Northwestern University	93.865	60032241-MUSC	8,588	—
Rehabilitation Institute of Chicago	93.865	R01HD075813	39,652	—
Temple University	93.865	360898-04800-7341-02	103,098	—
University of South Carolina	93.865	16-3004/1R01HD078407-01A1	50,156	—
University of Texas	93.865	UTA16-000438	87,969	—
Wayne State University	93.865	WSU17024	53,876	—
Vanderbilt University	93.865	VUMC54590	58	—
Total Child Health and Human Development Extramural Research			<u>364,645</u>	<u>—</u>
Aging Research:				
University of South Carolina	93.866	15-2805/1R21AG046772-01A1	(2,866)	—
Boston University	93.866	4500002168	15,521	—
University of Vermont	93.866	30340 Sub 000. Med USC / R01AG0	118,246	—
University of South Florida	93.866	6382-1016-00-A	(291)	—
Total Aging Research			<u>130,610</u>	<u>—</u>

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2017

Federal grantor/pass-through grantor/program title	Federal CFDA number	Pass-through entity identifying number	Federal expenditures	Pass-through expenditures
Vision Research:				
Children's Hospital of Philadelphia	93.867	3209850813/R01EY021137-01A1	\$ 111	—
Emory University	93.867	T295369/U10EY013272, T478062	11,294	—
Jaeb Center for Health Research, Inc.	93.867	U10EY11751	397	—
Virginia Commonwealth University	93.867	PD303645-SC105444	74,781	—
Total Vision Research			<u>86,583</u>	<u>—</u>
Allendale County Hospital	93.912	D06RH26837	15,680	—
Brown University	93.273	00000902	7,225	—
Duke University	93.103	207574/215728	6,243	—
Duke University	93.184	2034097/U27DD000860-04	2,104	—
Emory University	93.516	T461306 (T278655)	52,495	—
Health Research, Inc.	93.286	5077-01	45,062	—
SC DHEC	93.136	HR-7-302	345,819	—
SC Developmental Disabilities Council	93.630	05-21-0005	39,684	—
Sim Tunes LLC	93.823	ST-MUSC001	232,430	—
University of Florida	93.361	F13129	(3,522)	—
University of Ibadan	93.310	3U54HG007479-02S1, 5U54HG007479-03	132,971	—
University of North Carolina	93.945	5102577/U18DP006138	68,076	—
University of North Carolina	93.989	5102259/5R25TW009340-04	(7,227)	—
University of Pittsburgh	93.350	9010902(125998-3)/5UL1TR000005-10	39,804	—
University of South Carolina	93.135	16-2968	3,260	—
University of South Carolina	93.155	11550-FA52 15-2755/5U1CRH03711-10-00, 16-2932	1,481	—
University of South Carolina	93.879	15-2793/R01LM011648	54,538	—
Doxy Me LLC	93.879	Award #1/R41LM012547-01A1	73,933	—
			<u>1,110,056</u>	<u>—</u>
Virginia Commonwealth University	93.433	PT109629-SC105210	346,321	99,415
Shepherd Center	93.433	SHEP-16-007	8,386	—
			<u>354,707</u>	<u>99,415</u>
Duke University	93.unknown	157805/HHSN272200900023C; HHSN272201100025C; 178785; PTN TO14_ MUSC SCM02/HHSN27520100003I; 199249; 208068/HHSN-275201000031	117,464	—
University of Alabama at Birmingham	93.unknown	000336417-035/HHSN2682009	19,627	—
University of Utah	93.unknown	10032034-01/HHSC2612201300017	45,488	—
Leidos Biomedical Research, Inc.	93.unknown	16X109/HHSN261200800001E, PO 1516723	101,639	—
New England research Institute	93.unknown	MUSC12060733/HHSN261201200043C	54,162	—
eTect, Inc.	93.unknown	2015002/HHSN271201400032C	89,198	—
Westat, Inc.	93.unknown	s8954/HHSN271201100027C, HHSN271200014C	94,493	—
			<u>13,160,387</u>	<u>146,562</u>
Total U.S. Department of Health and Human Services			<u>124,564,408</u>	<u>11,598,271</u>

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2017

<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>Pass-through expenditures</u>
U.S. Department of Homeland Security:				
Direct programs:				
Assistance to Firefighters Grant	97.044	NA	\$ 236,966	—
Passed-through programs:				
South Carolina Emergency Management Division	97.017	PDMC-PJ-04-SC-2012-08	22,527	—
South Carolina Emergency Preparedness Division	97.017	PDMC-PJ-04-SC-2011-04, PDMC-PC-04-SC-2011-010	(4,549)	—
			17,978	—
South Carolina Universities Research and Education Foundation	97.130	NF13003, NF13002	65,935	58,793
			83,913	58,793
Total U.S. Department of Homeland Security			320,879	58,793
Total Research and Development Cluster			134,071,372	12,422,802
Student Financial Assistance Cluster:				
U.S. Department of Education:				
Direct programs:				
Federal Supplemental Educational Opportunity Grants	84.007	NA	19,467	—
Federal Work-Study Program	84.033	NA	378,238	—
Federal Perkins Loan Program	84.038	NA	6,641,424	—
Federal Direct Student Loans	84.268	NA	88,359,888	—
Federal Pell Grant Program	84.063	NA	227,062	—
Total U.S. Department of Education			95,626,079	—
U.S. Department of Health and Human Services:				
Direct programs:				
Nurse Faculty Loan Program	93.264	NA	1,187,174	—
Total U.S. Department of Health and Human Services			1,187,174	—
Total Student Financial Assistance Cluster			96,813,253	—
Other programs:				
U.S. Department of Agriculture				
Direct programs:				
SC Department of Education	10.555	NA	54,625	—
Total U.S. Department of Agriculture			54,625	—
U.S. Department of Defense:				
Direct programs:				
U.S. Department of Defense	12.420	NA	59,769	—
Total U.S. Department of Defense			59,769	—

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2017

<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>Pass-through expenditures</u>
U.S. Department of Justice:				
Direct programs:				
Office of Victims of Crime	16.321	NA	\$ 1,301,812	242,549
Passed-through programs:				
South Carolina Department of Public Safety	16.575	1V07267, 1V13083, 1V06105, 1V14080, 1V14117, 1V15130, 1V15129	597,744	—
South Carolina Department of Public Safety	16.588	1K14011, 1K15011, 1K15026	67,633	—
South Carolina Department of Public Safety	16.582	2009-VF-GX-K009 ; 2016-XV-GX-K021	56,553	—
			<u>721,930</u>	<u>—</u>
Total U.S. Department of Justice			<u>2,023,742</u>	<u>242,549</u>
U.S. Department of Homeland Security:				
Direct programs:				
Assistance to Firefighters Grant	97.044	NA	260,190	—
Passed-through programs:				
South Carolina Emergency Preparedness Division	97.017	PDMC-PJ-04-SC-2011-04	2,835,900	2,835,900
Total U.S. Department of Homeland Security			<u>3,096,090</u>	<u>2,835,900</u>
National Science Foundation:				
Direct programs:				
National Science Foundation	47.076	NA	120,254	9,358
Total National Science Foundation			<u>120,254</u>	<u>9,358</u>
U.S. Department of Energy:				
Direct programs:				
U.S. Department of Energy	81.136	NA	1,005,276	190,493
Total U.S. Department of Energy			<u>1,005,276</u>	<u>190,493</u>
U.S. Department of Health and Human Services:				
Direct programs:				
Health Resources and Services Administration	93.107	NA	415,454	339,878
Health Resources and Services Administration	93.153	NA	485,536	—
Health Program for Toxic Substances and Disease Registry	93.161	NA	(306)	—
Health Resources and Services Administration	93.191	NA	94,855	—
Substance Abuse and Mental Health Services Administration	93.243	NA	842,237	—
National Institutes of Health	93.279	NA	642,168	—
Centers for Disease Control and Prevention	93.283	NA	(2,509)	—
Health Resources and Services Administration	93.358	NA	350,259	—
Health Resources and Services Administration	93.510	NA	90,360	—
Centers for Medicare and Medicaid Services	93.611	NA	83,158	—
Health Resources and Services Administration	93.732	NA	6,215	—
U.S. Department of Health and Human Services – Other federal	93.unknown	NA	10,476	—
			<u>3,017,903</u>	<u>339,878</u>

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**

Schedule of Expenditures of Federal Awards

Year ended June 30, 2017

<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>Pass-through expenditures</u>
Passed-through programs:				
National Environmental Education Foundation	93.070	UE1EH000761	\$ 12,864	—
South Carolina Department of Health and Environmental Control	93.130	PC-4-779	61,480	—
SC Office of Rural Health	93.241	1R01MH095208-02	112,152	—
Harvard University	93.350	15-2856/INAVCA140191-01	41,868	—
Children's Trust of South Carolina	93.505	S-MIEC-F-2014-6-1, S-MIEC-E-2013-5-3	270,739	(18,900)
South Carolina Department of Social Services	93.575	4400010438, 4400009131	1,327,750	—
South Carolina Department of Health and Human Services	93.767	A 5 1669 A	120	—
SC Dept of Alcohol and Drug Abuse	93.788	T1080221/MUSC-STR-17	7,181	—
South Carolina Department of Health and Environmental Control	93.917	HV-6-501	1,450,705	—
South Carolina Department of Health and Environmental Control	93.940	HV-4-822	27,958	—
Center for Public Service Communication	93.unknown	2008-09	15,246	—
University of Maryland	93.unknown	HHSN-276-2011-00004-C	(59)	—
			<u>3,328,004</u>	<u>(18,900)</u>
Total U.S. Department of Health and Human Services			<u>6,345,907</u>	<u>320,978</u>
Total federal expenditures			\$ <u>243,590,288</u>	<u>16,022,080</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, 2017

**(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 2 CAR 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	\$ 1,408,637
Cancellation of loans		49,325
Total Federal Perkins Loan Program		\$ 1,359,312
Federal Direct Student Loan Program – Student loans advanced:		
Direct Stafford Loan Program	84.268	\$ 994,461
Direct Unsubsidized Stafford Loan Program		57,391,773
Federal Direct PLUS Loan Program		509,596
Federal Direct Graduate PLUS Loan Program		29,464,058
Total Federal Direct Student Loan Program		\$ 88,359,888

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**  
Notes to Schedule of Expenditures of Federal Awards  
Year ended June 30, 2017

	<b>CFDA number</b>	<b>Amount</b>
Health Professions Student Loans, including Primary Care Loans/loans for disadvantaged students:		
Loans advanced	93.342	\$ 767,219
Cancellation of loans		14,242
Total Health Professions Student Loans		\$ 781,461

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 \$5,530,985.93, \$4,610,136.25, and \$1,122,172.58, respectively, as of June 30, 2017.

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, 2017.

**(4) Matching**

Under the FWS program, the University matched \$109,179 in total compensation for the year ended June 30, 2017 in addition to the federal share of expenditures in the accompanying schedule of expenditures of federal awards.

Under the FSEOG program, the University matched \$4,868 in funds awarded to students for the year ended June 30, 2017 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.



KPMG LLP  
Suite 400  
300 North Greene Street  
Greensboro, NC 27401

**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  
the 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 aggregate discretely presented component units, each major fund, and the aggregate remaining fund information of the Medical University of South Carolina (the University) as of and for the year ended June 30, 2017, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated September 29, 2017. 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. The financial statements of the Medical University of South Carolina Foundation and the MUSC Foundation for Research Development were not audited in accordance with *Government Auditing Standards*.

**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 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  
September 29, 2017



KPMG LLP  
Suite 400  
300 North Greene Street  
Greensboro, NC 27401

**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, 2017. 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 \$385,264,376 in federal awards, which is not included in the schedule of expenditures of federal awards for the year ended June 30, 2017. 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, 2017.



## **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, 2017 and have issued our report thereon dated September 29, 2017, 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  
January 8, 2018

**THE MEDICAL UNIVERSITY OF SOUTH CAROLINA**

Schedule of Findings and Questioned Costs

Year ended June 30, 2017

**(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