



University of Louisville Research and Innovation Metrics FY2022 July - June

Table of Contents (TOC)

(to return to this page use TOC icon in top right corner of each slide)

Research and Innovation
Data Bits 2022
([Chart](#))

Number of Proposals Submitted
Fiscal Years 2017 through 2022
([Graph](#)) ([Chart](#))

Number of Proposals Submitted
By School/College/Unit
Fiscal Years 2017 through 2022
([Chart](#))

Number of Awards by Classification
Fiscal Years 2017 through 2022
([Graph](#)) ([Chart](#))

Award \$ Received
Fiscal Years 2017 through 2022
([Graph](#)) ([Chart](#))

Award \$ Received by Sponsor Type
Fiscal Years 2017 through 2022
([Graph](#)) ([Chart](#))

Federal Award \$ by Agency
Fiscal Years 2017 through 2022
([Graph](#)) ([Chart](#))

Award \$ Received
Federal or Non-Federal Sponsor
Fiscal Years 2017 through 2022
([Graph](#)) ([Chart](#))

Award \$ Received by Purpose
Fiscal Years 2017 through 2022
([Graph](#)) ([Chart](#))

Award \$ Received by School/College/Unit
Fiscal Years 2017 through 2022
([Graph](#)) ([Chart](#))

Award \$ Received by School/College/Unit
Federal or Non-Federal
Fiscal Years 2020 through 2022
([Chart](#))

COVID-19 Related Grant and
Contract Awards by Purpose
([Chart](#))

CARES Act Relief Funds
([Chart](#))

R&D Expenditures by Source of Funds
Fiscal Years 2016 through 2021
([Graph](#)) ([Chart](#))

Innovation Measures
Fiscal Years 2018 – 2022
([Chart](#))

Contact Information
([link](#))



Research and Innovation Data Bits – FY2022

Last revision October 26, 2022

**FY2022
G&C Awards + CTA
Revenue
July thru June:
\$ 153,823,828.43**

**FY2022
Proposals Submitted
July thru June:
1041**

**FY2022
G&C Awards
July thru June:
\$ 144,311,655.48**

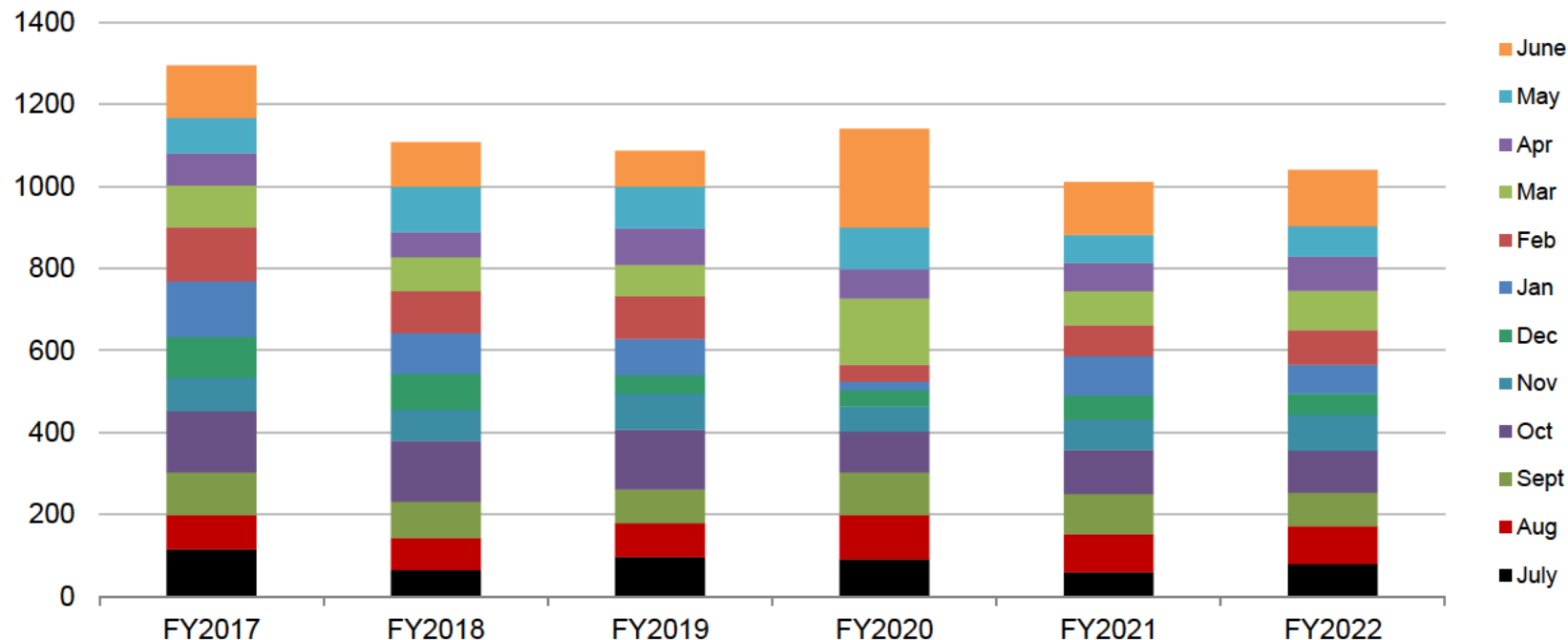
FY2022 Innovation Measures

Disclosures	46
RSAs	312
Patents Awarded	49
License/Option	7
Start-Ups	1
Total Income	\$ 15.6M

**FY2022
CTA Revenue
July thru June:
\$ 9,512,172.95**



Number of Proposals Submitted Fiscal Years 2017 through 2022





Number of Proposals Submitted Fiscal Years 2017 through 2022



MONTH	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
July	115	64	96	91	59	79
Aug	84	79	83	108	93	93
Sept	104	88	82	104	99	82
Oct	149	149	146	100	106	102
Nov	82	76	89	61	74	88
Dec	99	87	44	39	59	51
Jan	136	100	89	21	96	70
Feb	132	102	103	41	76	85
Mar	102	83	78	162	83	96
Apr	78	61	88	72	69	84
May	87	111	102	101	68	74
June	128	109	87	241	129	137
Total	1296	1109	1087	1141	1011	1041

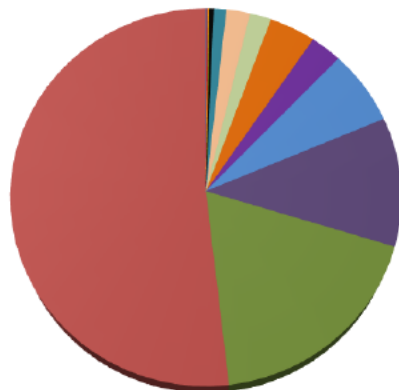


Number of Proposals Submitted by School/College/Unit Fiscal Years 2017 through 2022



■ LIB
 ■ COB
 ■ MUSIC
 ■ LAW
 ■ DENT
 ■ ADMIN
 ■ NUR
 ■ SPHIS
 ■ KENT
 ■ CEHD
 ■ A&S
 ■ SPEED
 ■ MED

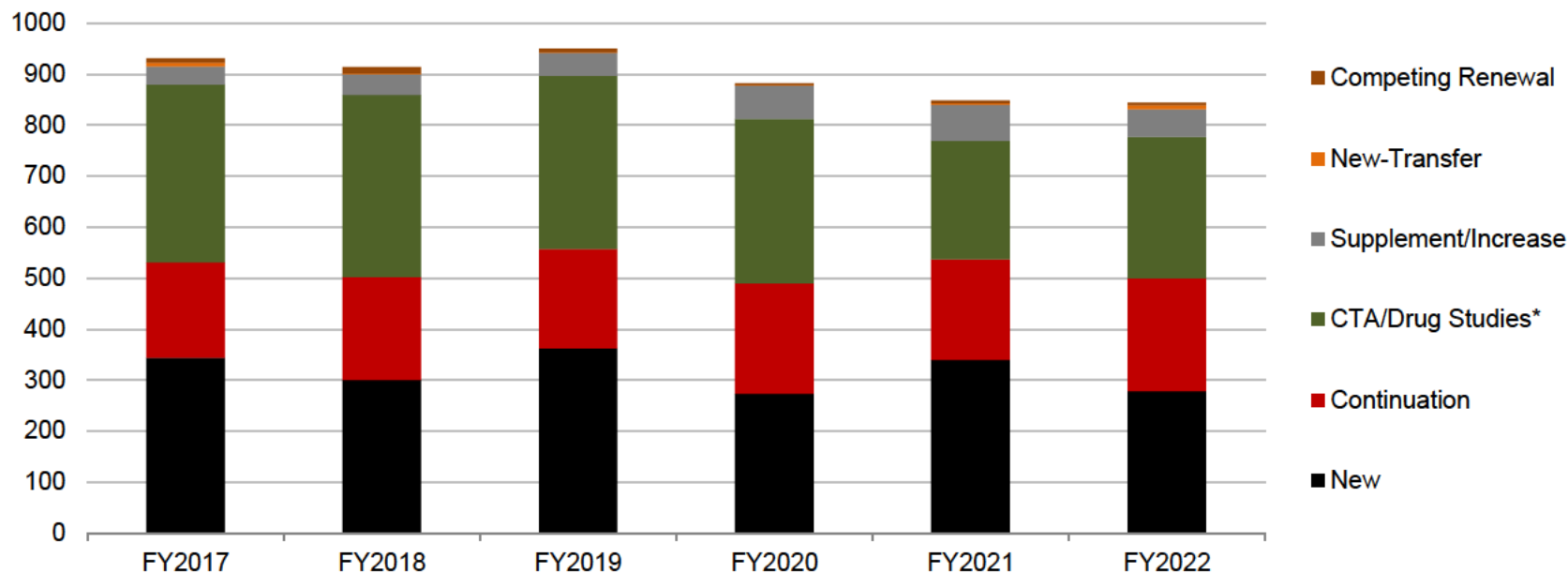
FY2022



School/College/Unit	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
Administrative Offices	13	12	10	14	20	21
Arts & Sciences	127	131	127	148	118	117
Business	1	2	2	1	1	1
Dentistry	26	21	19	13	16	13
Education & Human Dev	56	48	44	44	56	67
Kent School	36	32	36	45	36	28
School of Law	1	0	2	3	2	4
Medicine	733	606	566	603	535	542
Music	0	0	0	2	1	1
Nursing	18	7	17	29	21	19
Public Health & Info Sci	53	36	44	40	35	37
Speed School of Eng	231	214	219	199	170	190
University Libraries	1	0	1	0	0	1
Total	1296	1109	1087	1141	1011	1041



Number of Awards by Classification Fiscal Years 2017 through 2022



*CTA/Drug Studies - number of active receiving payment



Number of Awards by Classification Fiscal Years 2017 through 2022

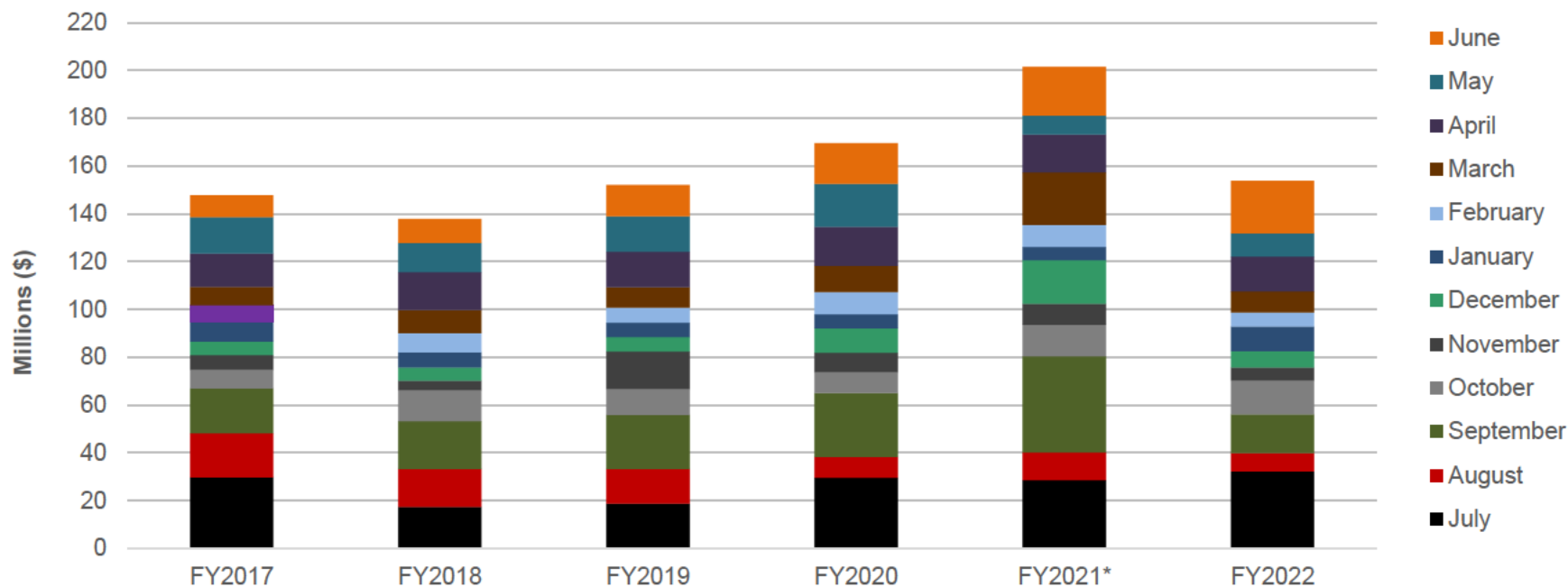


Classification	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
New	344	300	362	273	340	278
Continuation	187	202	195	217	197	222
CTA/Drug Studies*	348	357	340	322	232	277
Supplement/Increase	36	41	45	65	71	54
New-Transfer	7	1	1	1	3	8
Competing Renewal	9	13	7	4	5	5
Total	931	914	950	882	848	844

*CTA/Drug Studies - number of active receiving payment



Award \$ Received Fiscal Years 2017 through 2022



*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.



Award \$ Received Fiscal Years 2017 through 2022



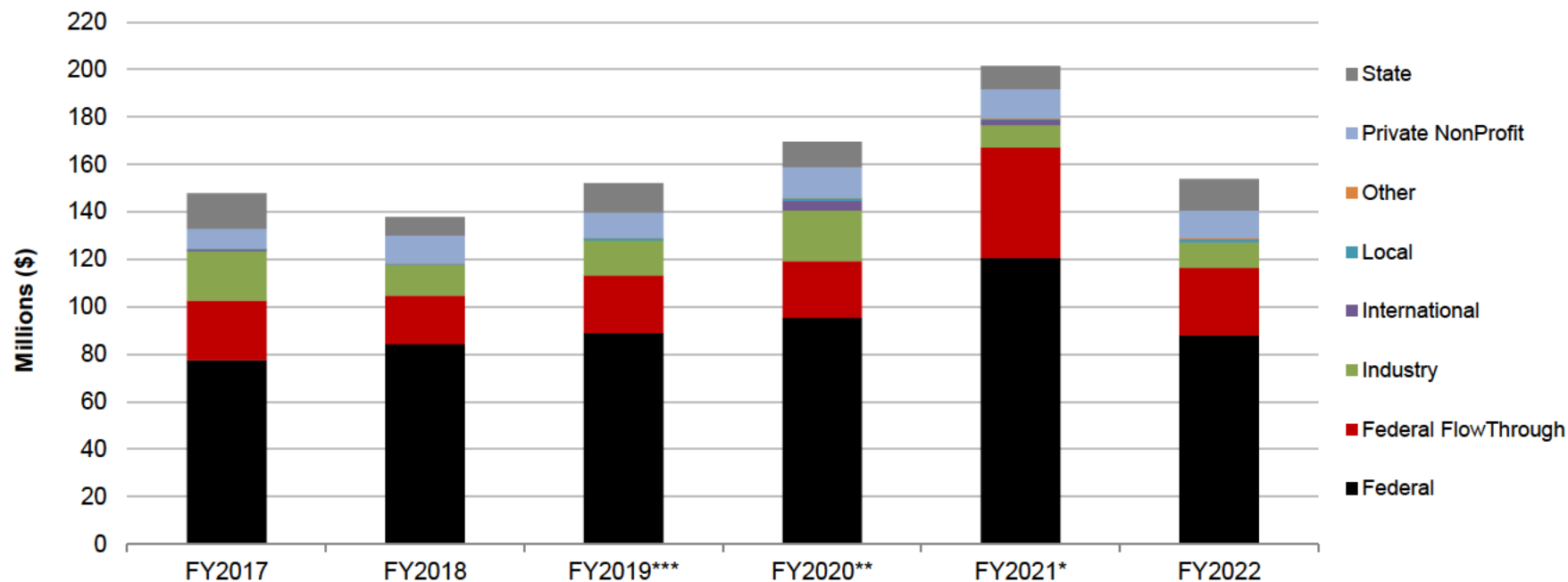
Month Of	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022
July	29,818,875.61	17,429,659.03	18,765,313.25	29,614,134.80	28,580,389.04	32,146,533.66
August	18,448,667.05	15,833,146.25	14,518,180.16	8,730,537.93	11,518,077.60	7,755,619.56
September	18,736,158.93	19,931,943.51	22,606,619.23	26,681,323.58	40,210,702.06	16,216,385.79
Q1 Total	\$67,003,701.59	\$53,194,748.79	\$55,890,112.64	\$65,025,996.31	\$80,309,168.70	\$56,118,539.01
October	7,802,484.99	13,035,758.10	10,905,305.91	8,659,200.12	13,280,614.36	14,158,917.13
November	6,111,889.35	3,965,815.01	15,551,197.71	8,206,240.71	8,803,822.68	5,506,930.76
December	5,752,790.56	5,520,131.20	6,118,781.38	10,111,228.73	18,208,180.73	6,756,552.98
Q1+Q2 Total	\$86,670,866.49	\$75,716,453.10	\$88,465,397.64	\$92,002,665.87	\$120,601,786.47	\$82,540,939.88
January	7,922,551.08	6,311,656.28	5,963,533.08	5,908,809.86	5,644,749.09	10,306,030.48
February	7,227,895.40	8,086,662.50	6,297,542.44	9,310,972.09	9,173,337.83	5,946,066.89
March	7,616,390.62	9,679,607.69	8,585,166.46	10,983,227.70	21,864,161.49	8,702,057.56
Q1+Q2+Q3 Total	\$109,437,703.59	\$99,794,379.57	\$109,311,639.62	\$118,205,675.52	\$157,284,034.88	\$107,495,094.81
April	14,016,453.61	15,765,064.65	14,894,176.74	16,318,699.10	15,871,840.16	14,545,965.66
May	15,156,556.80	12,184,042.35	14,727,819.77	17,966,935.76	7,894,490.71	9,827,840.24
June	9,192,987.27	10,153,473.17	13,129,630.53	17,010,217.69	20,479,616.02	21,954,927.72
Q1+Q2+Q3+Q4 Total	\$147,803,701.27	\$137,896,959.74	\$152,063,266.66	\$169,501,528.07	\$201,529,981.77	\$153,823,828.43

*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.



Award \$ Received by Sponsor Type Fiscal Years 2017 through 2022



*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.

***International Includes one negative budget adjustment total of -\$38,523



Award \$ Received by Sponsor Type Fiscal Years 2017 through 2022



Sponsor Type	FY2017	FY2018	FY2019***	FY2020**	FY2021*	FY2022
Federal	77,607,505.15	84,249,281.77	88,824,121.00	95,433,651.44	120,584,497.97	87,938,760.75
Federal FlowThrough	25,002,466.21	20,533,198.14	24,366,916.50	23,814,479.90	46,483,860.25	28,347,698.65
Industry	20,852,111.80	12,921,480.52	14,697,714.47	21,233,306.79	9,421,786.46	10,774,968.50
International	385,992.49	16,078.00	-29,609.47	4,143,913.00	2,148,347.00	36,021.00
Local	512,196.00	523,474.00	1,060,894.00	1,188,658.61	651,914.00	1,214,358.00
Other	93,036.40	99,813.60	47,109.40	113,162.00	256,495.80	604,642.00
Private NonProfit	8,517,337.72	11,673,502.31	10,631,571.26	12,836,864.15	12,088,264.22	11,682,784.35
State	14,833,055.50	7,880,131.40	12,464,549.50	10,737,492.18	9,894,816.07	13,224,595.18
Total	\$147,803,701.27	\$137,896,959.74	\$152,063,266.66	\$169,501,528.07	\$201,529,981.77	\$153,823,828.43

*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.

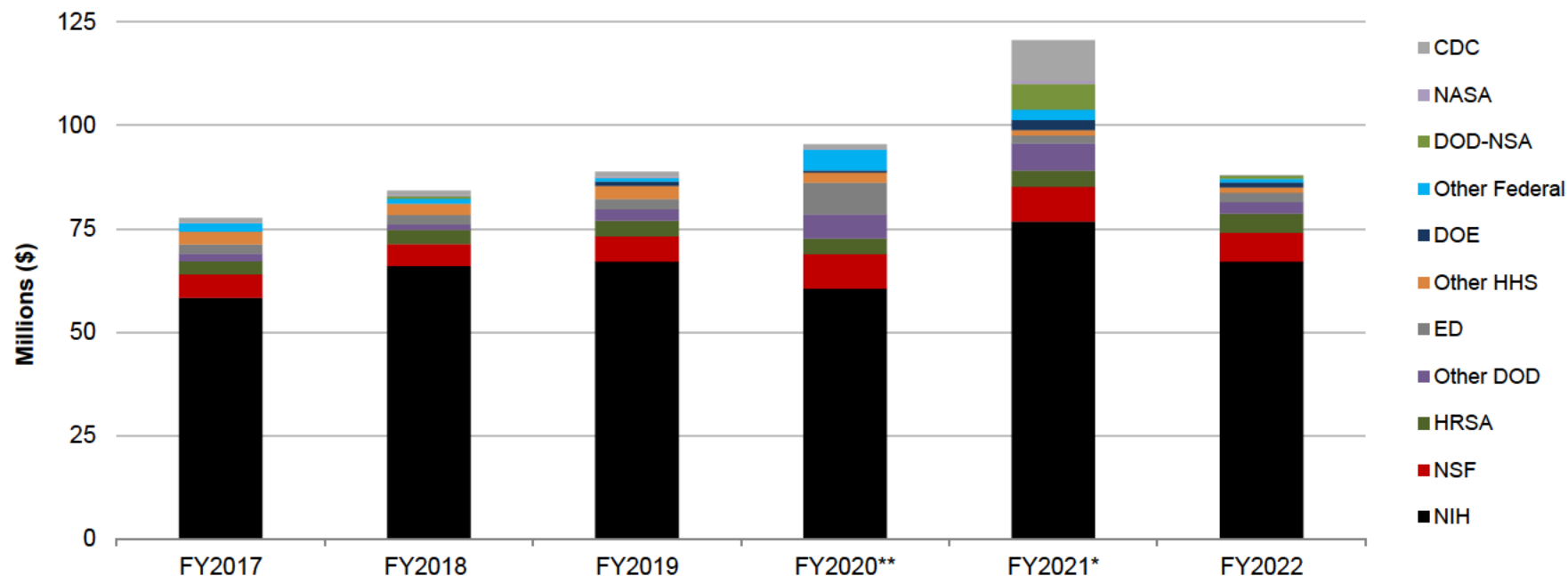
***International Includes one negative budget adjustment total of -\$38,523

10/26/2022

LOUISVILLE.EDU



Federal Award \$ by Agency Fiscal Years 2017 through 2022



*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.



Federal Award \$ by Agency Fiscal Years 2017 through 2022



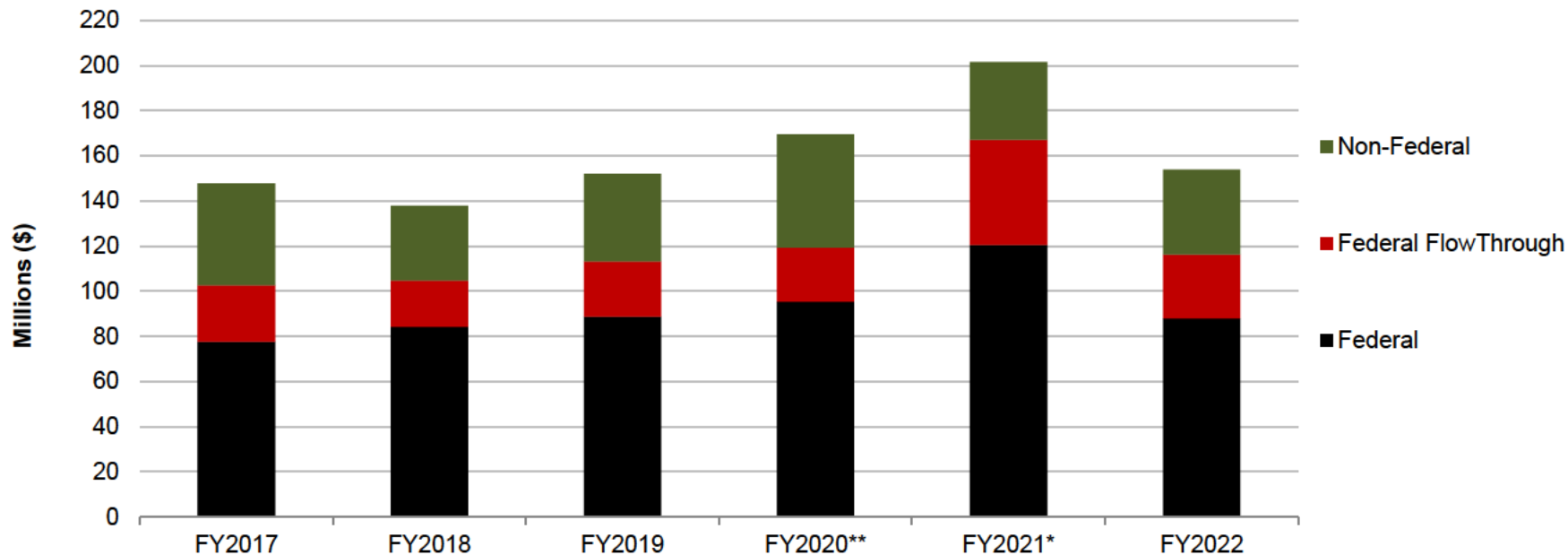
Federal Agency	FY2017	FY2018	FY2019	FY2020**	FY2021*	FY2022
NIH	58,325,491	65,972,697	67,052,112	60,553,022	76,759,727	67,058,846
NSF	5,653,385	5,398,702	6,139,278	8,279,915	8,393,643	6,981,556
HRSA	3,149,276	3,429,785	3,829,479	3,821,228	3,956,276	4,672,816
Other DOD	1,874,510	1,252,079	2,656,176	5,884,328	6,519,389	2,665,616
ED	2,245,841	2,306,819	2,578,792	7,626,114	1,927,574	2,395,776
Other HHS	3,070,262	2,689,940	3,168,783	2,479,387	1,352,133	1,299,205
DOE	0	0	1,008,242	466,172	2,381,378	1,168,499
Other Federal	2,015,124	1,233,355	818,463	5,022,741	2,591,478	906,447
DOD-NSA	0	580,069	82,095	0	6,147,705	700,000
NASA	90,430	202,242	308,497	135,497	689,986	90,000
CDC	1,183,186	1,183,594	1,182,204	1,165,247	9,865,208	0
Total	\$77,607,505	\$84,249,282	\$88,824,121	\$95,433,651	\$120,584,498	\$87,938,761

*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.



Award \$ Received Federal or Non-Federal Sponsor Fiscal Years 2017 through 2022



*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.

10/26/2022

LOUISVILLE.EDU



**Award \$ Received
Federal or Non-Federal Sponsor
Fiscal Years 2017 through 2022**



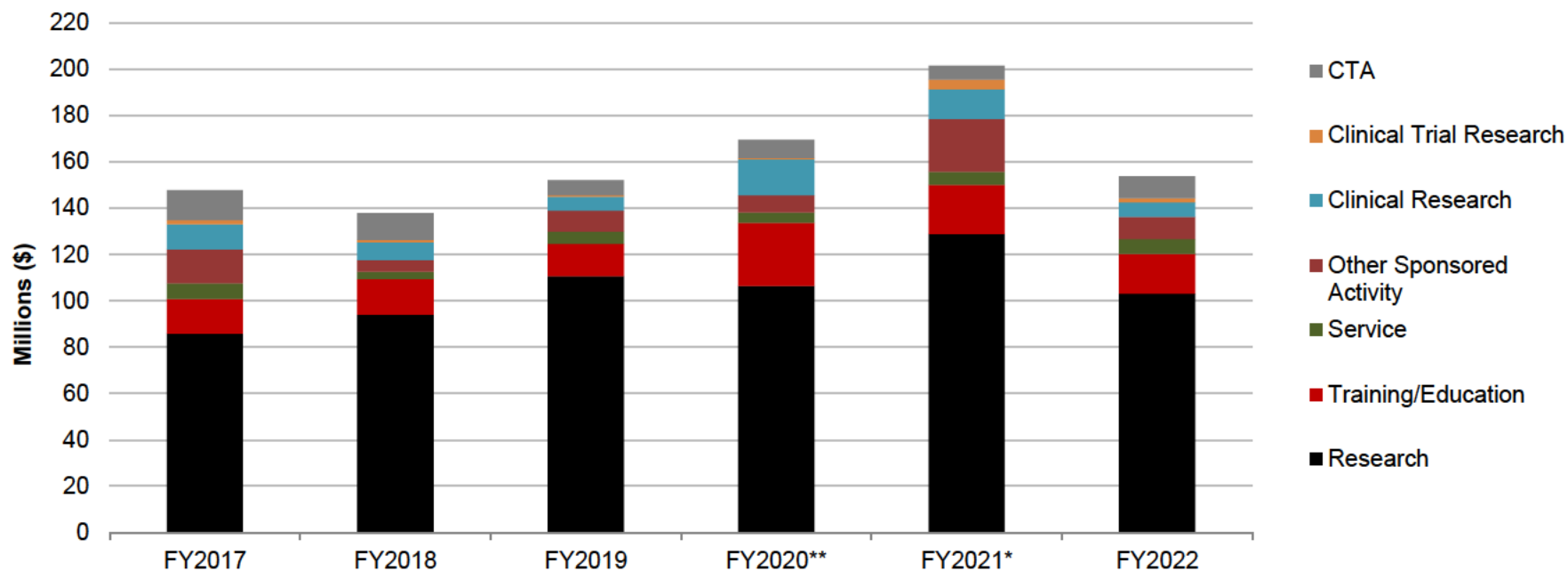
Sponsor Type	FY2017	FY2018	FY2019	FY2020**	FY2021*	FY2022
Federal	77,607,505.15	84,249,281.77	88,824,121.00	95,433,651.44	120,584,497.97	87,938,760.75
Federal FlowThrough	25,002,466.21	20,533,198.14	24,366,916.50	23,814,479.90	46,483,860.25	28,347,698.65
Non-Federal	45,193,729.91	33,114,479.83	38,872,229.16	50,253,396.73	34,461,623.55	37,537,369.03
Total	\$147,803,701.27	\$137,896,959.74	\$152,063,266.66	\$169,501,528.07	\$201,529,981.77	\$153,823,828.43

*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.



Award \$ Received by Purpose Fiscal Years 2017 through 2022



*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.

10/26/2022



Award \$ Received by Purpose Fiscal Years 2017 through 2022



Purpose	FY2017	FY2018	FY2019	FY2020**	FY2021*	FY2022
Research	85,913,308.51	94,022,235.62	110,734,072.88	106,463,663.16	128,803,022.37	103,077,113.54
Training/Education	14,994,489.93	15,301,199.61	13,794,418.24	27,144,458.63	21,286,321.14	17,171,337.71
Service	6,739,957.00	3,321,465.00	5,378,046.00	4,554,246.00	5,649,509.92	6,398,826.17
Other Sponsored Activity	14,614,538.00	4,927,746.20	9,017,438.37	7,446,408.29	22,708,522.50	9,572,194.48
Clinical Research	10,782,312.37	7,785,883.87	6,012,016.59	15,395,836.76	12,745,398.38	6,284,702.93
Clinical Trial Research	1,809,577.00	906,464.68	612,739.00	619,195.00	4,351,096.00	1,807,480.65
CTA	12,949,518.46	11,631,964.76	6,514,535.58	7,877,720.23	5,986,111.46	9,512,172.95
TOTAL	\$147,803,701.27	\$137,896,959.74	\$152,063,266.66	\$169,501,528.07	\$201,529,981.77	\$153,823,828.43

*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

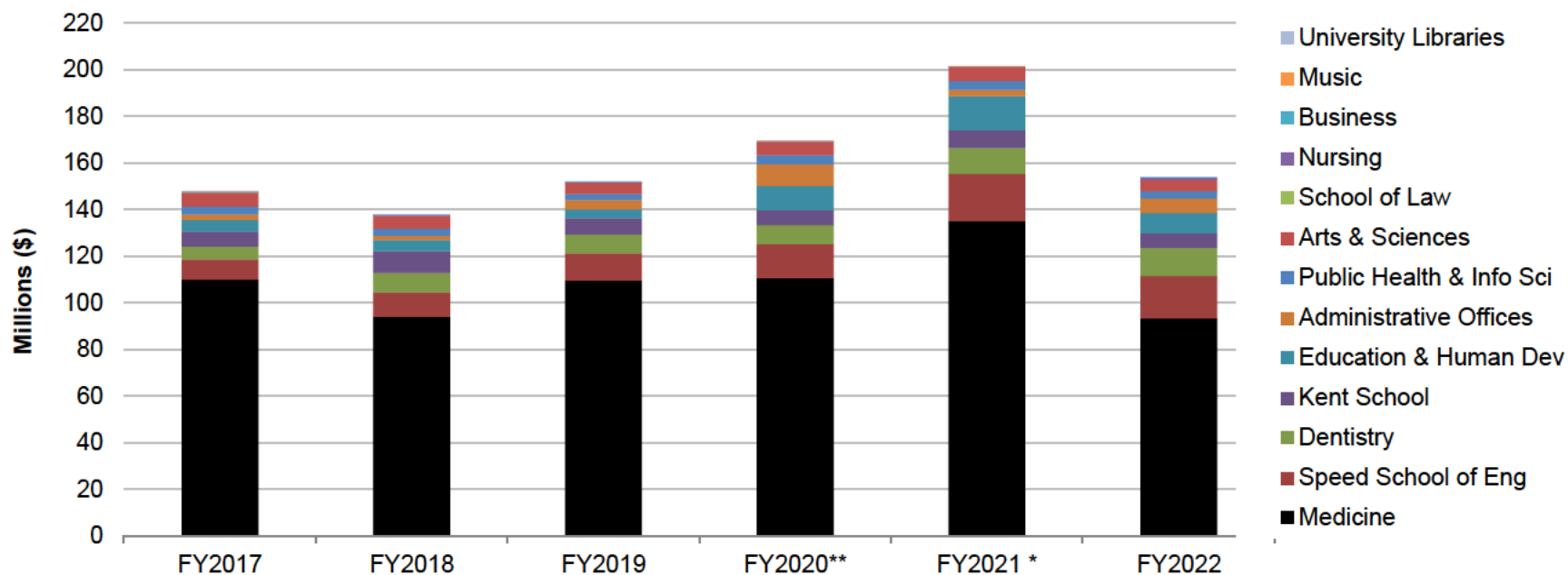
**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.

10/26/2022

LOUISVILLE.EDU



Award \$ Received by School/College/Unit Fiscal Years 2017 through 2022



*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.

10/26/2022

LOUISVILLE.EDU



Award \$ Received by School/College/Unit Fiscal Years 2017 through 2022



School/College/Unit	FY2017	FY2018	FY2019	FY2020**	FY2021 *	FY2022
Administrative Offices	2,329,205.00	1,752,849.00	3,927,201.96	9,396,698.38	2,713,146.34	6,232,233.17
Arts & Sciences	5,880,445.72	5,590,817.11	4,844,211.85	5,786,943.40	5,766,347.96	4,810,059.35
Business	38,290.00	24,550.00	43,000.00	0.00	0.00	82,616.00
Dentistry	5,410,240.00	8,342,590.00	7,985,427.00	8,191,750.00	11,152,869.00	12,091,475.50
Education & Human Dev	4,944,837.14	4,969,291.50	3,799,378.00	10,367,514.25	14,617,475.43	8,651,895.85
Kent School	6,486,822.00	9,346,065.00	7,107,707.50	6,319,629.05	7,595,713.22	6,225,719.83
Medicine	109,943,578.51	93,951,531.75	109,546,567.82	110,527,813.54	134,949,067.29	93,366,576.32
Music	13,000.00	0.00	0.00	30,400.00	9,000.00	0.00
Nursing	562,662.00	484,635.00	380,513.00	378,399.00	429,950.00	1,040,266.73
Public Health & Info Sci	3,410,576.89	2,966,477.00	2,711,240.00	3,831,410.00	3,918,850.68	3,099,826.18
School of Law	37,435.00	0.00	23,500.00	5,000.00	10,000.00	12,500.00
Speed School of Eng	8,744,809.01	10,460,887.00	11,691,549.53	14,665,970.45	20,367,561.85	18,210,659.50
University Libraries	1,800.00	7,266.38	2,970.00	0.00	0.00	0.00
Total	\$147,803,701.27	\$137,896,959.74	\$152,063,266.66	\$169,501,528.07	\$201,529,981.77	\$153,823,828.43

*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.

10/26/2022

LOUISVILLE.EDU



Award \$ Received by School/College/Unit Federal or Non-Federal Fiscal Years 2020 through 2022



School/College/Unit	FY2020	FY2020	FY2020	FY2021	FY2021	FY2021	FY2022	FY2022	FY2022
	Federal	Non-Federal	Total	Federal	Non-Federal	Total	Federal	Non-Federal	Total
Administrative Offices	7,112,328.49	2,284,369.89	9,396,698.38	1,616,938.37	1,096,207.97	2,713,146.34	5,154,107.17	1,078,126.00	6,232,233.17
Arts & Sciences	3,933,480.40	1,853,463.00	5,786,943.40	4,499,800.12	1,266,547.84	5,766,347.96	3,708,237.00	1,101,822.35	4,810,059.35
Business	0.00	0.00	0.00	0.00	0.00	0.00	46,330.00	36,286.00	82,616.00
Dentistry	5,781,815.00	2,409,935.00	8,191,750.00	6,397,930.00	4,754,939.00	11,152,869.00	6,818,239.00	5,273,236.50	12,091,475.50
Education & Human Dev	5,083,699.00	5,283,815.25	10,367,514.25	8,850,824.88	5,766,650.55	14,617,475.43	2,776,269.92	5,875,625.93	8,651,895.85
Kent School	3,879,990.00	2,439,639.05	6,319,629.05	3,142,919.00	4,452,794.22	7,595,713.22	3,440,375.00	2,785,344.83	6,225,719.83
Law School	0.00	5,000.00	5,000.00	0.00	10,000.00	10,000.00	0.00	12,500.00	12,500.00
Medicine	57,314,233.55	53,213,579.99	110,527,813.54	80,468,250.60	54,480,816.69	134,949,067.29	54,057,818.00	39,308,758.32	93,366,576.32
Music	0.00	30,400.00	30,400.00	0.00	9,000.00	9,000.00	0.00	0.00	0.00
Nursing	8,000.00	370,399.00	378,399.00	0.00	429,950.00	429,950.00	0.00	1,040,266.73	1,040,266.73
Sch PublicHealth&InfoSci	2,377,436.00	1,453,974.00	3,831,410.00	1,827,906.00	2,090,944.68	3,918,850.68	1,043,728.00	2,056,098.18	3,099,826.18
Speed School of Eng	9,942,669.00	4,723,301.45	14,665,970.45	13,779,929.00	6,587,632.85	20,367,561.85	10,893,656.66	7,317,002.84	18,210,659.50
University Libraries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	\$95,433,651.44	\$74,067,876.63	\$169,501,528.07	\$120,584,497.97	\$80,945,483.80	\$201,529,981.77	\$87,938,760.75	\$65,885,067.68	\$153,823,828.43

*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds and this amount is not included in the current slide. Please see slide 23

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds and this amount is included in the current slide.



COVID-19 Related Grant and Contract Awards by Purpose



COVID-19 Related Grant & Contract Awards by Purpose	FY2020	FY2021*	FY2022
Research	0.00	12,720,339.71	3,010,668.00
Clinical Research	136,498.07	9,161,848.14	312,113.00
Other Sponsored Activity	285,504.38	8,754,581.43	378,046.00
CTA	0.00	797,951.90	1,030,173.60
Training/Education	90,625.00	345,455.00	31,857.00
Service	209,903.00	171,833.00	19,250.17
Clinical Trial Research	0.00	58,600.00	0.00
Total	\$722,530.45	\$32,010,609.18	\$4,782,107.77



CARES Act Relief Funds



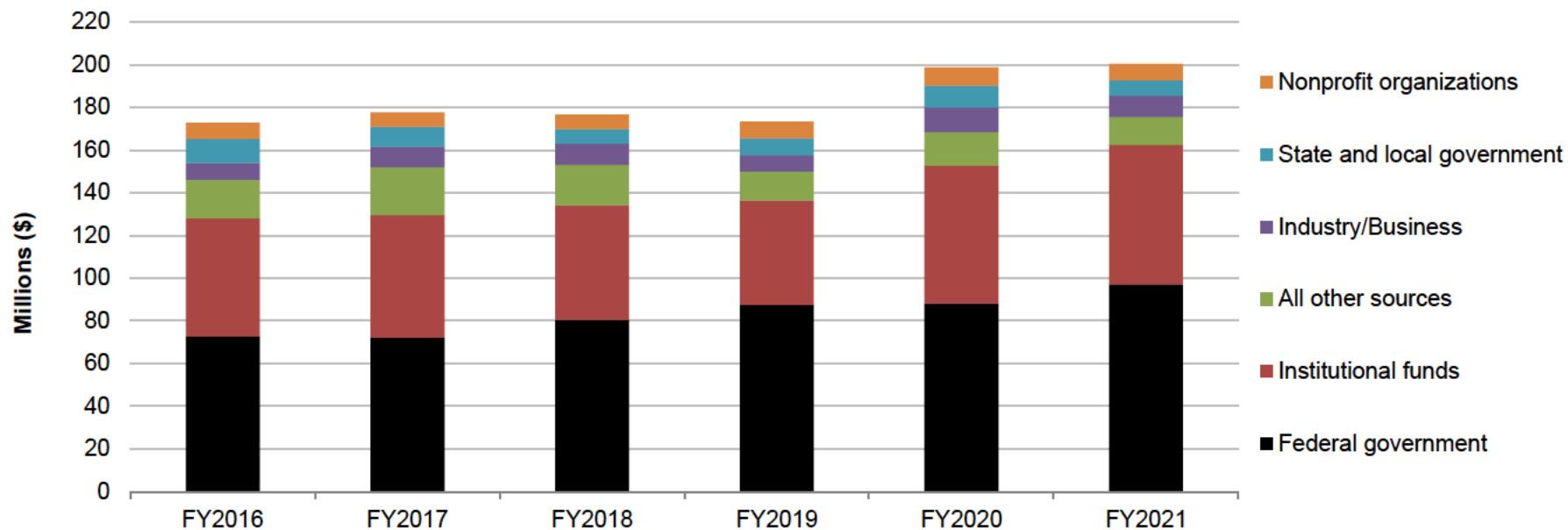
Coronavirus Aid, Relief, and Economic Security Act (CARES Act) - Relief Funds	FY2020	FY2021*	FY2022
Higher Education Emergency Relief Fund (HEER) - Institutional Portion	6,239,395.00	32,909,619.00	0.00
Coronavirus Relief Fund - Reimbursement	0.00	5,873,000.00	0.00
Governors Emergency Education Relief (GEER) - UofL	0.00	1,695,900.00	0.00
Total	\$6,239,395.00	\$40,478,519.00	\$0.00

*FY2021 - We reported \$40,478,519 in CARES Act Relief Funds. This amount is **not included** in the award totals on slides 9-21

**FY2020 - We reported \$6,239,395 in CARES Act Relief Funds. This amount is included in the award totals on slides 9-21



R&D Expenditures by Source of Funds Fiscal Years 2016 through 2021



Source: NSF HERD Report FY2016, FY2017, FY2018, FY2019, FY2020 & FY2021



R&D Expenditures by Source of Funds Fiscal Years 2016 through 2021



Source	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
Federal government	72,644,000	72,119,000	80,511,000	87,563,000	88,251,000	97,179,000
Institutional funds	55,373,000	57,307,000	53,768,000	48,834,000	64,507,000	65,375,000
All other sources	18,199,000	22,559,000	18,860,000	13,596,000	15,593,000	12,926,000
Industry/Business	7,693,000	9,640,000	9,876,000	7,475,000	11,584,000	9,846,000
State and local government	11,390,000	9,299,000	6,808,000	8,114,000	10,365,000	7,351,000
Nonprofit organizations	7,606,000	6,664,000	6,832,000	7,880,000	8,518,000	7,685,000
Total	\$172,905,000	\$177,588,000	\$176,655,000	\$173,462,000	\$198,818,000	\$200,362,000

Source: NSF HERD Report FY2016, FY2017, FY2018, FY2019, FY2020, & FY2021



Innovation Measures FY 2018 – 2022



Fiscal Year	FY18	FY19	FY20	FY21	FY22
Invention Disclosures	83	98	80	77	46
Research Support Agreements ¹	337	383	350	465	312
Material Transfer Agreements	130	155	143	157	109
Patent Applications	134	165	144	152	90
Patents Awarded	43	54	48	78 ²	49
License/Option Agreements	14	20	18	17	7
Start-Ups	3	5	7	2	1
Royalties/License Income	\$2,993,130	\$762,593	\$455,280	\$833,311	\$778,325
Associated Income	\$1,777,285	\$5,281,836	\$8,294,768	\$25,093,474	\$14,193,542
Patent Reimbursement Income	\$357,899	\$501,140	\$641,686	\$799,452	\$655,572 ³
Total Innovation Related Income	\$5,128,314	\$6,545,569	\$9,391,734	\$26,726,237	\$15,627,439

¹Research Support Agreements include Material Transfer Agreements (MTAs) that allow researchers to access needed materials, confidentiality agreements, data use agreements, and non-funded collaboration agreements with universities and companies (executed by I&C and OSPA).

²38 validations for four granted EU applications account for the unusually large number of patents awarded in FY21. 28 of the 38 EU validations were paid for by licensees (Qualigen and dSenz).

³≈\$42k reimbursed from Apex Grant

William A. Metcalf
Associate Vice President for
Research Development & Strategic Partnerships
Research and Innovation
502-852-1708
will.metcalf@louisville.edu

Janet L. Johnson
Institutional Research Analyst II
Research Development & Strategic Initiatives
Research and Innovation
502-852-8358
janet.johnson@louisville.edu