

***Pseudo ranking of 112 US higher Education and research institutions in fundamental biology
When all publications are considered ($\phi = 1$)
When direct 3-years citations are used to account for publications impact***

Institution	Strong dominance Rank	Strong dominance Importance	Dominance Rank	Dominance Importance	Weak dominance Rank	Weak dominance Importance
Harvard	1	.69775221761032	1	.71293708797108	1	.73066765444988
Johns_Hopkins	2	.04767259623147	2	.08937654144244	2	.14219203149251
UCSF	8	.02442111648517	3	.06786329126052	3	.06278906169320
Pennsylvania	3	.03657941787982	4	.04578243893046	4	.02646765659977
UCLA	4	.03460327502191	4	.04578243893046	6	.00661691414994
Stanford	13	.00506264042301	6	.01828729197921	5	.01816070254672
Yale	12	.00533883909020	7	.00609576399307	7	.00605356751557
UCSD	9	.02037476092950	8	.00559832522459	8	.00468496223130
Seattle	7	.02739408407582	9	.00537831254548	9	.00137919665621
Columbia	15	.00344875160230	10	.00121597640843	10	.00058654512183
WU_St_Louis	10	.01418095322290	11	.00058495987946	11	.00024825539812
UM_Ann_Arbor	5	.03109090856518	12	.00046004376397	13	.00005165334879
WI_Madison	6	.02794174786394	13	.00037042435545	15	.00001160018449
Berkeley	22	.00010890913169	14	.00010499281292	12	.00005390062372
Duke	19	.00081571023675	15	.00008222708989	14	.00001821952850
Cornell	11	.01307112446528	16	.00002747004916	18	.00000186798462
MIT	31	.00001617921101	17	.00002002829266	16	.00000874787919
Texas_SW_Med_Center	35	.00000731445600	18	.00001001414633	17	.00000437393959
UNC	18	.00104565038578	19	.00000916562133	20	.00000134729204
Baylor_Coll_Med	20	.00026243005844	20	.00000823035384	19	.00000140444140
Pittsburgh	17	.00171934421680	21	.00000230756691	21	.00000012730832
UC_Davis	16	.00183732973559	22	.00000097716303	25	.00000001575831
Vanderbilt	21	.00017467305850	23	.00000077093549	23	.00000006416368
NYU	30	.00001621647341	24	.00000031932747	22	.00000008081439
Northwestern	34	.00001208704013	24	.00000031932747	24	.00000002020360
Emory	28	.00001683405184	26	.00000016068776	27	.00000001114688
Twin_Cities	14	.00458237331729	27	.00000004202431	30	.00000000056050
Chicago	38	.00000503408887	28	.00000002298396	28	.00000000215222
Iowa	25	.00009370918871	29	.00000001711198	31	.00000000053935
Boston	32	.00001494744164	30	.00000000930573	32	.00000000053626
Rockefeller	57	.00000011739946	31	.00000000805844	26	.00000001231529
UC_Irvine	39	.00000430671179	32	.00000000680251	29	.00000000095550
Utah	33	.00001234639814	33	.00000000412463	34	.00000000011748
Virginia	37	.00000584588062	34	.00000000343780	33	.00000000022276
Columbus	24	.00010261796551	35	.00000000227545	40	.00000000001192
CWRU	29	.00001680306463	36	.00000000106676	37	.00000000001370
Urbana_Champaign	27	.00002795547264	37	.00000000103104	36	.00000000001380
MA_Med_Sch	62	.00000004508139	38	.00000000040073	35	.00000000004649
Florida	23	.00010384999760	39	.00000000028948	43	.00000000000133

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OR_Health_Sci	55	.00000025601779	40	.00000000024790	41	.00000000001120
USC	43	.00000217300223	41	.00000000022560	38	.00000000001266
Birmingham	26	.00003666150358	42	.00000000019045	44	.00000000000089
Yeshiva	49	.00000065084395	43	.00000000018741	38	.00000000001266
Mayo_Coll_Med	36	.00000593293393	44	.00000000006886	45	.00000000000082
Rochester	42	.00000251946817	45	.00000000005879	46	.00000000000055
Caltech	66	.00000001073366	46	.00000000000994	42	.00000000000149
Arizona	40	.00000330889618	47	.00000000000888	50	.00000000000006
PA_Univ_Park	47	.00000094409584	48	.00000000000771	49	.00000000000008
CO_Health	51	.00000063328623	49	.00000000000696	47	.00000000000018
Mt_Sinai	58	.00000011282125	50	.00000000000581	48	.00000000000013
MD_Baltimore	50	.00000064646420	51	.00000000000443	50	.00000000000006
TX_Anderson	60	.00000007552196	52	.00000000000142	52	.00000000000002
IL_Chicago	45	.00000191153945	53	.00000000000093	56	.00000000000000
Texas_AM	41	.00000325309557	54	.00000000000082	61	.00000000000000
Tufts	53	.00000035778883	55	.00000000000078	53	.00000000000001
UMDNJ	46	.00000129427225	56	.00000000000056	55	.00000000000000
Stony_Brook	56	.00000016111563	57	.00000000000054	54	.00000000000001
New_Brunswick	61	.00000005843884	58	.00000000000020	59	.00000000000000
CO_Boulder	70	.00000000717329	59	.00000000000013	58	.00000000000000
Princeton	77	.00000000285092	60	.00000000000005	57	.00000000000000
Purdue	52	.00000058945710	61	.00000000000004	63	.00000000000000
Austin	59	.00000010465323	62	.00000000000004	60	.00000000000000
Georgia	44	.00000196508636	63	.00000000000002	66	.00000000000000
Cincinnati	54	.00000028313832	64	.00000000000002	64	.00000000000000
Dartmouth_Coll	69	.00000000859357	65	.00000000000001	62	.00000000000000
TX_Health_SA	68	.00000000914836	66	.00000000000001	65	.00000000000000
Michigan	48	.00000089831305	67	.00000000000000	67	.00000000000000
Health_Houston	65	.00000001416235	68	.00000000000000	69	.00000000000000
CT_Health	73	.00000000584713	69	.00000000000000	68	.00000000000000
WI_Med_Coll	76	.00000000322539	70	.00000000000000	72	.00000000000000
Brown	81	.00000000101193	71	.00000000000000	70	.00000000000000
MD_Coll_Park	74	.00000000369231	72	.00000000000000	73	.00000000000000
Virginia_Comm	71	.00000000666671	73	.00000000000000	74	.00000000000000
Wake_Forest	67	.00000000952626	74	.00000000000000	76	.00000000000000
Miami	64	.00000001987600	75	.00000000000000	75	.00000000000000
Brandeis	89	.00000000016731	76	.00000000000000	71	.00000000000000
Iowa_State	63	.00000002254070	77	.00000000000000	85	.00000000000000
Raleigh	72	.00000000636657	78	.00000000000000	82	.00000000000000

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CO_State	83	.00000000080749	79	.00000000000000	79	.00000000000000
TN_Health	78	.00000000216767	80	.00000000000000	83	.00000000000000
MA_Amherst	85	.00000000048350	81	.00000000000000	78	.00000000000000
Bloomington	75	.00000000337077	82	.00000000000000	81	.00000000000000
Oregon_State	80	.00000000113051	83	.00000000000000	77	.00000000000000
UC_Riverside	79	.00000000190102	83	.00000000000000	84	.00000000000000
Albuquerque	82	.00000000094537	85	.00000000000000	87	.00000000000000
Oregon	96	.00000000005487	86	.00000000000000	80	.00000000000000
Georgia_Inst_Tech	91	.00000000013263	87	.00000000000000	88	.00000000000000
Santa_Cruz	97	.00000000005037	88	.00000000000000	86	.00000000000000
UCSB	94	.00000000007848	89	.00000000000000	89	.00000000000000
Lincoln	86	.00000000037860	90	.00000000000000	91	.00000000000000
Rice	90	.00000000015029	91	.00000000000000	90	.00000000000000
CT_Storrs	88	.00000000022453	92	.00000000000000	92	.00000000000000
Florida_State	92	.00000000010791	93	.00000000000000	94	.00000000000000
TN_Knoxville	99	.00000000003649	94	.00000000000000	93	.00000000000000
AZ_Tempe	87	.00000000027223	95	.00000000000000	96	.00000000000000
Manoa	93	.00000000007912	96	.00000000000000	95	.00000000000000
SUNY_Albany	100	.00000000003435	97	.00000000000000	97	.00000000000000
Carnegie_Mellon	102	.00000000001381	98	.00000000000000	98	.00000000000000
NE_Med	98	.00000000004959	99	.00000000000000	101	.00000000000000
Virginia_Tech	84	.00000000055507	100	.00000000000000	103	.00000000000000
Notre_Dame	104	.00000000000973	101	.00000000000000	99	.00000000000000
Delaware	95	.00000000005924	102	.00000000000000	103	.00000000000000
George_Washington	101	.00000000002181	103	.00000000000000	102	.00000000000000
Rutgers_Newark	106	.00000000000208	104	.00000000000000	100	.00000000000000
SUNY_Health_Brooklyn	103	.00000000001034	105	.00000000000000	105	.00000000000000
Rensselaer	105	.00000000000271	106	.00000000000000	106	.00000000000000
CUNY	108	.00000000000036	107	.00000000000000	107	.00000000000000
George_Mason	109	.00000000000036	107	.00000000000000	107	.00000000000000
Boston_Coll	107	.00000000000097	109	.00000000000000	109	.00000000000000
So_Methodist	110	.00000000000014	110	.00000000000000	110	.00000000000000
MA_Boston	111	.00000000000010	111	.00000000000000	111	.00000000000000
Polytech_Brooklyn	112	.00000000000004	112	.00000000000000	112	.00000000000000