## Investing activity by disease area

Disease Area	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Oncology	\$324	\$135	\$250	\$99	\$375	\$251	\$691	\$781	\$1,037	\$1,426
Neurology	\$226	\$121	\$119	\$114	\$142	\$163	\$392	\$269	\$559	\$792
Platform	\$113	\$98	\$52	\$152	\$215	\$241	\$174	\$343	\$268	\$687
Other	\$98	\$126	\$67	\$82	\$95	\$39	\$117	\$189	\$125	\$635
Infectious	\$86	\$37	\$128	\$56	\$93	\$95	\$173	\$57	\$248	\$171
Metabolic	\$28	\$13	\$79	\$80	\$28	\$18	\$146	\$81	\$194	\$146
Immunology	\$115	\$16	\$50	\$51	\$10	\$44	\$9	\$63	\$41	\$410
Ophthalmology	\$49	\$45	\$92	\$59	\$113	\$26	\$28	\$32	\$111	\$42
Endocrine	\$47	\$12	\$12	\$29	\$9	\$19	\$65	\$68	\$105	\$172
Gastrointestinal	\$9	\$64	\$0	\$16	\$15	\$0	\$27	\$11	\$69	\$293
Cardiovascular	\$41	\$38	\$22	\$133	\$44	\$18	\$54	\$50	\$72	\$31
Psychiatry	\$2	\$25	\$24	\$39	\$20	\$7	\$29	\$192	\$14	\$58
Respiratory	\$22	\$62	\$50	\$3	\$0	\$8	\$34	\$45	\$34	\$120
Hematology	\$26	\$45	\$2	\$54	\$35	\$37	\$21	\$66	\$45	\$0
Total (\$M)	\$1,183	\$838	\$948	\$966	\$1,193	\$965	\$1,960	\$2,247	\$2,922	\$4,983

Source: BIO 2019 Emerging Therapeutic Company Trend Report (\$M for US companies by disease area, 2009-2018)

## Partnering activity by disease area

Disease Area	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Oncology	\$919	\$533	\$1,139	\$804	\$874	\$1,697	\$3,421	\$1,981	\$2,256	\$3,780
Neurology	\$1,589	\$264	\$128	\$231	\$296	\$586	\$327	\$229	\$384	\$2,115
Immunology	\$396	\$189	\$259	\$163	\$261	\$82	\$898	\$259	\$311	\$104
Other	\$107	\$681	\$106	\$310	\$95	\$152	\$462	\$195	\$113	\$526
Endocrine	\$113	\$476	\$588	\$8	\$96	\$530	\$377	\$92	\$147	\$309
Cardiovascular	\$175	\$737	\$72	\$6	\$120	\$91	\$82	\$75	\$227	\$1,085
Platform	\$139	\$230	\$487	\$71	\$396	\$142	\$377	\$234	\$139	\$68
Infectious Disease	\$797	\$304	\$197	\$257	\$58	\$196	\$65	\$6	\$24	\$366
Metabolic	\$185	\$166	\$33	\$95	\$62	\$738	\$230	\$120	\$69	\$399
Gastrointestinal	\$266	\$0	\$50	\$20	\$70	\$798	\$0	\$185	\$116	\$170
Ophthalmology	\$36	\$25	\$60	\$163	\$10	\$418	\$248	\$51	\$161	\$78
Respiratory	\$275	\$52	\$9	\$1	\$50	\$57	\$380	\$40	\$234	\$17
Hematology	\$102	\$30	\$25	\$38	\$66	\$260	\$230	\$125	\$133	\$5
Psychiatry	\$231	\$32	\$202	\$11	\$98	\$25	\$10	\$13	\$67	\$105
Total (\$M)	\$5,330	\$3,719	\$3,355	\$2,177	\$2,553	\$5,772	\$7,105	\$3,604	\$4,381	\$9,126

Source: BIO 2019 Emerging Therapeutic Company Trend Report (\$M for US companies by disease area, 2009-2018)

## Acquisition activity by disease area

Disease Area	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Oncology	\$1,773	\$2,833	\$2,218	\$2,175	\$2,616	\$1,435	\$1,011	\$8,931	\$13,922	\$15,274
Infectious Disease	\$1,187	\$0	\$11,412	\$2,131	\$1,339	\$5,827	\$190	\$0	\$13	\$458
Metabolic	\$0	\$22	\$610	\$293	\$74	\$89	\$8,716	\$0	\$536	\$9,589
Gastrointestinal	\$0	\$390	\$21	\$0	\$0	\$1,027	\$7,332	\$0	\$0	\$621
Neurology	\$703	\$695	\$210	\$46	\$37	\$952	\$3,644	\$1,322	\$1,027	\$340
Hematology	\$255	\$0	\$0	\$94	\$240	\$0	\$0	\$665	\$571	\$5,123
Endocrine	\$0	\$472	\$71	\$315	\$730	\$107	\$2,722	\$594	\$180	\$0
Immunology	\$221	\$102	\$186	\$1,272	\$0	\$260	\$330	\$275	\$620	\$477
Other	\$302	\$70	\$175	\$9	\$0	\$0	\$229	\$815	\$534	\$195
Respiratory	\$0	\$204	\$328	\$178	\$600	\$0	\$260	\$500	\$0	\$0
Platform	\$29	\$598	\$10	\$111	\$51	\$175	\$541	\$50	\$0	\$133
Cardiovascular	\$153	\$165	\$10	\$3	\$336	\$42	\$600	\$0	\$137	\$141
Ophthalmology	\$298	\$0	\$0	\$0	\$160	\$67	\$679	\$170	\$0	\$109
Psychiatry	\$0	\$226	\$0	\$0	\$0	\$0	\$462	\$0	\$100	\$0
Total (\$M)	\$4,921	\$5,777	\$15,251	\$6,627	\$6,183	\$9,981	\$26,716	\$13,322	\$17,640	\$32,460

Source: BIO 2019 Emerging Therapeutic Company Trend Report (\$M for US companies by disease area, 2009-2018)