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Deal Date	Seller	Buyer	Kind of Transaction	Satge of Dev.	Deal Information	Disease Area	Upfront (\$M)	Equity (\$M)	Clinical / Reg. Milestones (\$M)	Other Milestones (\$M)	Commercial Payments (\$M)	Total Deal (\$M)
05/2024	AC Immune	Takeda	Dev., License, Option	Phase II	Dev. of amyloid beta (Aβeta), including ACI-24.060 for Alzheimer's disease	Central Nervous System	100	--	--	--	2,100	2,200
05/2024	OnKure	Reneo Pharmaceuticals	Acquisition, Dev.	Phase I	Reneo Pharmaceuticals merger agreement with OnKure	Cancer	--	--	--	--	--	120
05/2024	Maze Therapeutics	Shionogi	Dev., License, Research	Orphan Indic.	Dev. of MZE001 for Pompe disease	Other/Miscellaneous	150	--	--	--	--	150
05/2024	Gossamer Bio	Chiesi Group	Co-Market, Co-Promotion, Dev., License, Research	Phase II	Dev. of Seralutinib for PAH, PH-ILD & Other Indic.s	Respiratory	--	--	306	--	180	486
05/2024	Agenus	Ligand	Dev., Research	Phase III	Dev. of botensilimab and balstilimab (BOT/BAL) for Colorectal cancer and liver metastases	Cancer	--	--	--	--	--	125
05/2024	Eiger Biopharma	Sentynl Therapeutics	Asset Purchase, Co-Market	Approved	Worldwide proprietary rights to Zokinvy for Hutchinson-Gilford Progeria Syndrome	Other/Miscellaneous	--	--	--	--	--	45
04/2024	Flugen, Predictive Oncology	Department of Defense	Dev., Research	Phase II	Dev. of First-of-Its-Kind Intranasal for M2SR flu vaccine	Infectious-Viral	--	--	--	--	--	6
04/2024	Epygenix Therapeutics	Harmony Biosciences	Acquisition, Asset Purchase	Phase III, Orphan Indic.	Harmony Biosciences acquired CNS assets from Epygenix Therapeutics	Central Nervous System	35	--	130	--	515	680
04/2024	Repertoire Immune Medicines	Bristol Myers Squibb	Co-Market, Dev., Research	Discovery	Using DECODE platform to develop Tolerizing vaccines for autoimmune diseases	Autoimmune/Inflammatory	65	--	--	--	1,800	1,865
04/2024	BioVie	Department of Defense	Dev., Research	Phase II	Dev. of Evaluate Bezisterim (NE3107) for the treatment of Long COVID	Central Nervous System, Infectious-Viral	--	--	--	--	--	13
04/2024	Allogene Therapeutics	California Institute for Regenerative Medicine	Dev., Research	Phase I	Dev. of ALLO-316 for metastatic renal cell carcinoma (RCC)	Cancer	--	--	--	--	--	15
04/2024	Rapamycin	Biodexa	Co-Market, Dev., License, Sublicense	Phase III	Develop, manufacture, and commercialization eRapa	Other/Miscellaneous	--	--	--	17	42	59
04/2024	Cidara Therapeutics	Mundipharma	Asset Purchase	Phase III	Asset purchase agreement for the divestiture of rezafungin	Infectious-Miscellaneous	--	--	--	128	--	128
04/2024	TreeFrog	Vertex	Dev., Research	Phase I	Dev. of cell therapies VX-880 for type 1 diabetes	Endocrinological & Metabolic	25	--	--	--	540	780
04/2024	Immedica Pharma	Impilo, KKR	Acquisition, Asset Purchase	Orphan Indic.	KKR acquired Immedica Pharma	Other/Miscellaneous	--	--	--	--	--	4,000
04/2024	Kumquat Biosciences	Takeda	Co-Dev., License, Option, Research	Phase I	Develop and commercialize a novel immuno-oncology small molecule inhibitor	Cancer	130	--	--	--	1,200	1,330
04/2024	MedinCell	AbbVie	Co-Dev., Co-Market, Co-Promotion, Dev., License	Preclinical	Dev. of LAI technology for six therapeutic products multiple therapeutic areas & Indic.s	Unlimited	35	--	--	--	1,900	1,935
04/2024	Varian	Windtree Therapeutics	Acquisition, Asset Purchase	Phase II	Windtree acquired Varian Biopharma	Cancer	--	--	--	--	2	4
04/2024	Caris Life Sciences	Merck KGaA	Co-Market, Dev., Research	Discovery	Discovery and Dev. of first-in-class antibody-drug conjugates for cancer patients	Cancer	--	--	--	--	1,400	1,400
04/2024	ProfoundBio	Genmab	Acquisition	Phase II	Genmab acquired ProfoundBio	Cancer	--	--	--	--	--	1,800
04/2024	Sutro Biopharma	Ipsen	Co-Market, Dev., License	Phase I	Exclusive global licensing agreement for STRO-003 for cancer	Cancer	--	--	--	--	--	900
03/2024	Xilio Therapeutics	Gilead Sciences	Co-Market, Dev., License, Research	Phase I	To develop and commercialize Xilio's Phase 1 tumor-activated IL-12 program, GTX301	Cancer	30	14	--	--	--	648
03/2024	Kazia Therapeutics	Sovagen	Co-Market, Co-Promotion, Dev., License, Services	Phase II	Dev. of paxalisib for FCD T2 and TSC disease	Central Nervous System	2	--	--	--	19	21
03/2024	Fusion Pharmaceuticals	AstraZeneca	Acquisition, Asset Purchase	Phase II	AstraZeneca acquired Fusion Pharmaceuticals	Cancer	--	--	--	--	--	2,400

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03/2024	Fennec Pharmaceuticals	Norgine	Co-Market, License	Approved	Commercialize PEDMARQST in Europe, Australia and New Zealand	Cancer	--	--	--	--	--	272
03/2024	Eloxx Pharmaceuticals	Almirall	Co-Market, Dev., License	Phase I	Develop and commercialize ZKN-013 for rare dermatological and other diseases	Dermatologic, Other/Miscellaneous	3	--	--	--	470	473
03/2024	FunPep	Shionogi	Co-Market, Dev., License, Option, Research	Preclinical	Option agreement for FPP004X for the treatment of seasonal allergic rhinitis	Allergic	2	--	--	--	121	124
03/2024	Sosei Heptares	Boehringer Ingelheim	Dev., License	Phase II	Dev. of G protein-coupled receptor (GPCR) for schizophrenia	Psychiatric	27	--	--	--	66	826
03/2024	Calidi Biotherapeutics, City of Hope	California Institute for Regenerative Medicine	Dev., Joint Venture, Research	Preclinical	Using Calidi's lead asset, CLD-101 to develop a treatment for metastatic ovarian cancer	Cancer	--	--	--	--	--	5
03/2024	C4 Therapeutics	Merc k KGaA	Co-Market, Dev., License, Research	Discovery	License and collaboration agreement for two targeted protein degraders against oncogenic proteins	Cancer	16	--	--	--	740	756
03/2024	Adaptive Phase Therapeutics	BionX	Acquisition, Asset Purchase	Phase II	Merger Agreement and concurrent financing for two phase 2 assets BX004 and BX211	Infectious-Bacterial	--	--	--	--	--	50
03/2024	Merus BV	Gilead	Dev., License, Option, Research	Preclinical	Discover dual tumor-associated antigens targeting trispecific antibodies using Triclonics platform	Cancer	56	25	--	--	1,500	1,556
02/2024	Vicore Pharma	Nippon Shinyaku	Co-Market, Co-Promotion, Dev., License	Orphan Indic.	Dev. of C21 for idiopathic pulmonary fibrosis (IPF) in Japan	Respiratory	10	--	--	--	275	285
02/2024	MorphoSys	Novartis	Acquisition, Asset Purchase	Phase III	Novartis to acquire MorphoSys	Cancer	--	--	--	--	--	3
02/2024	OSE Immunotherapeutics	AbbVie	Dev., License	Preclinical	Dev. of monoclonal antibody (OSE-230) for chronic inflammation	Autoimmune/Inflammatory	48	--	--	--	665	713
02/2024	Neomorphic	Novo Nordisk	Co-Market, Co-Promotion, CRO, Dev., Research	Preclinical	Dev. of molecular glue degraders for cardiometabolic and rare diseases	Endocrinological & Metabolic	--	--	--	--	--	1,460
02/2024	Redx Pharma	Jazz Pharmaceuticals	Asset Purchase	Preclinical	Acquire Redx's KRAS (Kirsten rat sarcoma virus) inhibitor program	Cancer	10	--	--	--	870	880
02/2024	Ayala Pharmaceuticals	Immunome	Asset Purchase	Phase III	Acquire AL102 from Ayala for the treatment of desmoid tumors	Cancer	20	30	--	28	10	88
01/2024	Lemonex	CEPI	Research	Phase I	Dev. of DegradabALL mRNA vaccine platform for infectious diseases	Infectious-Viral	--	--	--	--	--	5
01/2024	Zentalis Pharmaceuticals	Immunome	License, Research	Preclinical	License agreement for preclinical ROR1 ADC and ADC platform technology	Cancer	15	20	--	--	275	310
01/2024	LG Chem	Rhythm Pharmaceuticals	Dev., License, Research	Phase II	Global licensing agreement for LB54640 for hyperphagia and severe obesity	Endocrinological & Metabolic	40	20	--	40	205	285
01/2024	Allorion Therapeutics	AstraZeneca	Dev., License, Option	Preclinical	Dev. of EGFR L858R mutated allosteric inhibitor for non-small cell lung cancer	Cancer	40	--	--	--	500	540
01/2024	Allorion Therapeutics	Avenzo Therapeutics	Co-Market, Co-Promotion, Dev., License, Option	Phase I	Dev. of AVZO-021 for solid tumors	Cancer	40	--	--	--	1,000	1,040
01/2024	Shanghai Argo Biopharmaceutical	Novartis	Co-Market, Dev., License, Option, Research	Phase II, Phase I	Two agreements Phase 1 and Phase 1/2a clinical-stage programs for cardiovascular disease treatment	Cardiovascular	185	--	--	--	--	4,165
01/2024	Chengdu Kanghua Biological Products	HilleVax	Dev., License, Research, Supply	Phase I	License agreement for rights to Kangh's hexavalent virus-like particle vaccine (HIL-216)	Infectious-Viral	15	--	--	--	256	271
01/2024	Perspective	Lantheus Holdings	Asset Purchase, Co-Dev., Dev., License, Option	Phase II	Dev. of Pb212-VMT- -NET for neuroendocrine tumors	Cancer	28	--	--	--	--	61
01/2024	Protagonist Therapeutics	Takeda	Co-Dev., Co-Market, Co-Promotion, Dev., License	Phase III	Dev. of rusfertide for Polycythemia Vera (PV)	Hematologic	--	--	--	--	--	300
01/2024	Inhibrx	Sanofi	Acquisition, Asset Purchase	Phase II	Sanofi acquired Inhibrx	Autoimmune/Inflammatory, Other/Miscellaneous	--	--	--	--	--	296
01/2024	Windtree Therapeutics	Lee's Pharmaceutical	Co-Market, Dev., License, Research	Phase II	Dev. and commercialization of istaroxime in China	Cardiovascular	--	--	--	--	138	138
01/2024	Beckley Psytech	ATAI Life Sciences	Co-Market, Research	Phase II	Dev. of BPL-003 and ELE-101 for neuropsychiatric conditions	Psychiatric	--	--	--	--	--	50

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01/2024	Sermonix Pharmaceuticals	Shanghai Henlius Biotech	Co-Market, Co-Promotion, Dev., License, Research	Phase III	Dev. of novel endocrine therapy lasofoxifene for breast cancer	Cancer	--	--	--	--	--	58
01/2024	Harpoon Therapeutics	Merck	Acquisition	Phase I, Preclinical	Merck acquired Harpoon Therapeutics	Cancer	--	--	--	--	--	680
01/2024	Aiolos Bio	GSK	Acquisition	Phase II	GSK acquired Aiolos Bio	Autoimmune/Inflammatory, Respiratory	1,000	--	--	--	400	1,400
01/2024	MediLink Therapeutics	Roche	Dev., License, Research	Phase I	Dev. of antibody-drug conjugate candidate YL211 for solid tumors	Cancer	--	--	--	--	--	1,000
12/2023	RayzeBio	Bristol Myers Squibb	Acquisition	Phase III	Bristol Myers Squibb acquired RayzeBio	Cancer	--	--	--	--	--	4,100
12/2023	Compugen	Gilead	Co-Market, Co-Promotion, Dev., License, Research	Preclinical	Dev. of COM503 for solid tumors	Cancer	--	--	--	--	--	848
12/2023	Ionis Pharmaceuticals	Otsuka Pharmaceutical	Co-Market, Co-Promotion, Dev., Research	Phase III	Dev. of donidalorsen for hereditary angioedema	Hematologic	--	--	--	--	--	65
12/2023	Cerevel Therapeutics	AbbVie	Acquisition	Preclinical	AbbVie acquired Cerevel Therapeutics	Central Nervous System, Psychiatric	--	--	--	--	--	8,700
12/2023	Abbsko Therapeutics	Merck KGaA	Co-Dev., Co-Market, Co-Promotion, Dev., License, Research	Phase III	Dev. of Pimicotinib (ABSK021) for solid tumors	Cancer	70	--	--	--	--	70
12/2023	Carmot Therapeutics	Roche	Acquisition	Preclinical	Roche acquired Carmot Therapeutics	Endocrinological & Metabolic	2,700	--	--	--	400	3,100
12/2023	Palvella Therapeutics	Ugand	Co-Market, Co-Promotion, CRO, Dev.	Phase III	Dev. of QTORIN rapamycin for Microcystic Lymphatic Malformations	Other/Miscellaneous	--	--	--	--	--	5
11/2023	Chong Kun Dang Pharmaceutical	Novartis	Dev., License	Phase I	Dev. and commercialization of CKD-510	Other/Miscellaneous	80	--	1,225	--	--	1,305
11/2023	Prism BioLab	Lilly	Dev., License, Research	Preclinical	Dev. of PepMetrics technology for cancer, autoimmune, fibrosis	Autoimmune/Inflammatory, Cancer, Respiratory	--	--	--	--	--	600
11/2023	Avidity Biosciences	Bristol-Myers Squibb	Co-Market, Co-Promotion, Dev., License, Research	Phase II	Dev. of AOC Platform Technology for cardiovascular	Cardiovascular	--	--	--	--	--	2,300
11/2023	Autifony Therapeutics	Jazz Pharmaceuticals	Dev., License, Research	Preclinical	Dev. Of Two Ion Channel Targets for Neurological Disorders	Central Nervous System	--	--	--	--	--	771
11/2023	Ensem Therapeutics	BeiGene	Dev., License, Research	Phase I	Dev. of cyclin-dependent kinase 2 (CDK2)inhibitor for breast cancer	Cancer	--	--	--	--	--	1,330
11/2023	Department for Health and Social Care	Emergex Vaccines	Dev., Research	Phase I	Dev. of CD8 T cell-priming CHIKV vaccine candidate (PepGNP-ChikV) for Chikungunya Virus	Infectious-Viral	--	--	--	--	--	2
11/2023	Propella Therapeutics	Astellas Pharma	Acquisition	Phase II	Astellas acquired Propella Therapeutics	Cancer	--	--	--	--	--	175
11/2023	Royalty Pharma	Teva	Dev., Research	Phase III	Dev. of olanzapine LAI (TEV-749) for schizophrenia	Psychiatric	--	--	--	--	--	225
11/2023	Cartesian	Selecta Biosciences	Acquisition	Phase III	Selecta Biosciences Merger with Cartesian Therapeutics	Autoimmune/Inflammatory	--	--	--	--	--	110
11/2023	Legend Biotech	Novartis	Co-Market, Co-Promotion, Dev., License, Research, Services	Phase I	Dev. of LB2102 for small cell lung cancer and large cell neuroendocrine carcinoma	Cancer	--	--	--	--	--	100
11/2023	Eccogene	AstraZeneca	Co-Market, Co-Promotion, Dev., License, Research	Phase I	Dev. of ECC5004 small molecule GLP-1 RA for obesity, type-2 diabetes & cardiometabolic	Endocrinological & Metabolic	185	--	--	--	1,825	2,010
11/2023	Orum Therapeutics	Bristol-Myers Squibb	Acquisition	Phase I	Bristol Myers Squibb acquired ORM-6151 Program from Orum Therapeutics	Cancer	--	--	--	--	--	280
11/2023	Clearside Biomedical	BioCryst	Dev., License	Phase III	Dev. of avoralstat using SCS Microinjector for diabetic macular edema (DME)	Endocrinological & Metabolic	--	--	--	--	--	83
10/2023	AnHeart Therapeutics	Nippon Kayaku	Co-Market, Co-Promotion, Dev., License, Research	Phase II	Dev. of taletrectinib for NSCLC in Japan	Cancer	40	--	--	--	--	40
10/2023	Hansoh Pharma	GSK	Co-Market, Dev., License	Phase I	Dev. and commercialization of HS-20089, HS-20093 for gynaecological cancers	Cancer	85	--	--	--	1,485	1,710

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10/2023	Gravitas Therapeutics	Basilea Pharmaceutica	Asset Purchase, Dev., License	Phase II	Asset purchase agreement for GR-2397 for the treatment of infections caused by Aspergillus species	Infectious-Miscellaneous	2	--	--	2	67	71
10/2023	Teva	Sanofi	Co-Dev., Co-Market, Co-Promotion, Dev., Research, Services	Phase II	Developed TEV574, a novel anti-TL1A therapy for Crohn's disease	Gastrointestinal	500	--	--	--	1,000	1,500
10/2023	Johnson & Johnson, Janssen Pharmaceutical	Sanofi	Co-Market, Co-Promotion, Dev., Research	Phase III	Dev. of extraintestinal pathogenic E. coli (9-valent) for invasive ExPEC disease	Infectious-Bacterial	--	--	--	--	--	175
10/2023	BioLineRx	Gloria Biosciences	Co-Market, Dev., License, Research, Services	Phase III	Dev. and commercialization of motixafortide in Asia	Cancer	15	--	--	--	250	265
10/2023	Ichnos Sciences	Astria Therapeutics	Dev., License	Phase II	Dev. of STAR-0310 for atopic dermatitis, allergic and immunological diseases	Autoimmune/Inflammatory, Dermatologic	--	--	--	--	--	320
10/2023	VenatoRx Pharmaceuticals	BARDA	Co-Market, Dev., Research, Services	Phase III	Dev. of novel oral antibiotic ceftibuten-ledaborbactam etzadroxil for urinary tract infection	Infectious-Bacterial	20	--	--	--	--	167
09/2023	Valo Health	Novo Nordisk	Dev., Research	Preclinical	Dev. of Platform and Biowire human tissue modelling platform for cardiometabolic diseases	Cardiovascular	60	--	--	--	2,700	2,760
09/2023	Evomune	Manuho	Co-Market, Dev., Research, Services	Phase I	To exclusively develop and commercialize MRGPRX2 antagonist EVO756 in China and key Asian countries	Autoimmune/Inflammatory	60	--	--	--	--	62
09/2023	BioNTech	CEPI	Dev., Research	Phase II	Dev. of RNA-based mpox vaccine, BNT166 for infectious diseases	Infectious-Bacterial	--	--	--	--	--	90
09/2023	Inventiva	Hepalys Pharma	Co-Market, Dev., License, Option	Phase I	Develop and commercialize lanifibranor for non-alcoholic steatohepatitis in Japan and South Korea	Liver & Gallbladder Diseases	10	--	--	--	231	241
09/2023	Immatics	Moderna Therapeutics	Co-Market, Co-Promotion, Dev., Research	Phase I, Preclinical	Dev. of cancer vaccines (IMA203) using XPRESIDENT platform and mRNA technology	Cancer	--	--	--	--	--	1,820
09/2023	Nurix	SeaGen	Co-Market, Co-Promotion, Dev., Research	Preclinical	Dev. of Degradable-Antibody Conjugates (DACs) for solid tumors and hematologic Cancer	Cancer	60	--	--	--	3,400	3,460
09/2023	Zenas BioPharma	Bristol-Myers Squibb	Co-Market, Co-Promotion, Dev., License, Research	Phase III	Dev. of bexelimumab for autoimmune diseases in Japan, South Korea, Taiwan & other Asian Country	Autoimmune/Inflammatory	50	--	--	--	--	50
09/2023	Traverse Therapeutics	Mirum Pharmaceuticals	Acquisition, Asset Purchase	Phase III	Mirum Pharmaceuticals acquired Chobam and Chenodal from Traverse Therapeutics	Liver & Gallbladder Diseases	--	--	--	--	235	445
08/2023	VBI Vaccines	Brii Biosciences	Asset Purchase, Dev., License, Supply	Phase II	Worldwide exclusive license to VBI-2601 and PreHevbri in the Asia Pacific region	Infectious-Viral	--	--	--	--	--	437
08/2023	GenFleet Therapeutics	Verastem	Co-Market, Co-Promotion, Dev., License, Option, Research	Phase I	Dev. of small molecule drug for RAS biology and RAS pathway-dependent cancers	Cancer	--	--	--	--	--	637
08/2023	Bird Rock Bio	Skye Bioscience	Acquisition, Asset Purchase	Phase II, Phase I	Skye acquired Bird Rock Bio	Ophthalmic, Renal	--	--	--	--	--	17
08/2023	Timber Pharmaceuticals	LEO Pharma	Acquisition	Phase III, Phase II	Timber Pharmaceuticals to be acquired by LEO Pharma	Dermatologic	14	--	22	--	--	36
08/2023	Radius Health, Radius Pharmaceuticals	DRI Healthcare	Asset Purchase, License, Research, Services	Approved	Royalty Purchase Agreement for Radius's royalty and commercial milestone stream in elacestrant	Cancer	130	--	--	--	10	140
08/2023	Exavir Therapeutics	NIH, National Institute of Allergy and Infectious Diseases	Dev., Research, Services	Preclinical	Receives \$3M award for Dev. of XVIR-110	Infectious-Viral	--	--	--	--	--	3
08/2023	Soligenix	University of Pennsylvania	Dev., Research	Phase III	Dev. of HyBryte (synthetic hypericin) for cutaneous T-cell lymphoma (CTCL)	Cancer	--	--	--	--	--	3
08/2023	Poseida Therapeutics	Astellas Pharma	Co-Market, Co-Promotion, Dev., License, Research	Phase I	Phase 1 trials of P-BCMA-ALLO1 and P-MUC1C-ALLO1 for multiple myeloma and solid tumors	Cancer	--	--	--	--	--	600
08/2023	EQRx	Revolution Medicines	Acquisition	Phase I	Revolution Medicines acquired EQRx	Cancer	--	--	--	--	--	1,000
08/2023	Alnylam	Agos Pharmaceuticals	Co-Market, Co-Promotion, License	Preclinical	Dev. of siRNA targeting TMPRSS6 for patients with polycythemia vera	Cancer	18	--	--	--	130	148
07/2023	Amarin	Lotus Pharmaceuticals	Co-Market, Dev., Distribution, Supply	Approved	Distribute and commercialize VAZKEPA in Southeast Asia and South Korea	Cardiovascular	0	--	--	--	--	0
07/2023	Axolotl Biologix	Carmell Therapeutics	Acquisition	Phase II	Carmell Therapeutics merger with Axolotl Biologix	Other/Miscellaneous	--	--	--	--	75	75

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07/2023	Pfizer	Alexion, AstraZeneca	Acquisition, Asset Purchase, License	Preclinical	Acquire preclinical gene therapy programs for rare disease gene therapies	Other/Miscellaneous	--	--	--	--	--	1,000
07/2023	Santhera	Catalyst Pharmaceuticals	Acquisition, Co-Market, Co-Promotion, License	Approved	Commercialization of Vamorone for Duchenne Muscular Dystrophy in North America	Autoimmune/Inflammatory	75	--	--	--	115	231
07/2023	EryDel	Quince Therapeutics	Acquisition, Asset Purchase	Phase III	Quince Therapeutics acquired EryDel	Central Nervous System	--	--	--	--	395	983
07/2023	Recludix Pharma	Sanofi	Co-Market, Dev., Option, Research, Services	Phase II	Develop and commercialize STAT6 for immunological and inflammatory Indics	Autoimmune/Inflammatory	125	--	--	--	1,200	1,325
07/2023	DualityBio	BeiGene	Acquisition, Co-Market, Co-Promotion, License, Option	Preclinical	A global and commercial license to an investigational, preclinical ADC therapy for solid tumors	Cancer	--	--	--	--	--	1,300
06/2023	Novartis	Bausch + Lomb	Acquisition, Loan	Approved	Bausch + Lomb will acquire XIIDRA from Novartis	Ophthalmic	1,750	--	--	--	750	2,500
06/2023	Immunogenesis	Cancer Focus Fund	Research, Services	Phase I	Support the Phase 1a/1b clinical trial of ImmunoGenesis' lead candidate IMG5-001	Cancer	--	--	--	--	--	5
06/2023	Aslan Pharmaceuticals	Zenyaku Kogyo	Dev., License	Phase I	Exclusive rights to develop and commercialize elbasakimab in atopic dermatitis in Japan	Dermatologic, Other/Miscellaneous	--	--	--	--	--	139
06/2023	Toumaline Bio	Talaris Therapeutics	Acquisition	Phase II	Talaris Therapeutics acquired Toumaline Bio	Cardiovascular, Ophthalmic	--	--	--	--	--	350
06/2023	Surface Oncology	Coherus Biosciences	Acquisition	Phase II	Coherus acquired Surface Oncology	Cancer	--	--	--	--	--	40
06/2023	NRx Pharmaceuticals, Alvogen	Lotus Pharmaceuticals	Co-Market, Co-Promotion, Dev., Research	Phase III	Dev. and commercialization of NRX-101 for suicidal treatment-resistant bipolar depression	Psychiatric	--	--	--	5	330	329
05/2023	InDex Pharmaceutical	Viartis	Co-Market, Co-Promotion, Dev., License, Research	Phase III	Commercialization of cobitolimod for the treatment of ulcerative colitis in Japan	Gastrointestinal	10	--	--	--	40	50
05/2023	XtaPi	Lilly	Co-Market, Dev., Research, Services	Discovery	XtaPi's integrated AI capabilities and robotics platform for an undisclosed target		--	--	--	--	--	250
05/2023	CohBar	TuHURA Biosciences, Morphogenesis	Acquisition	Phase II	CohBar and Morphogenesis definitive merger agreement to develop cancer vaccines	Cancer	--	--	--	--	--	15
05/2023	Mustang Bio	uBiGene	Asset Purchase	Phase II	auriGene acquired Mustang clinical and commercial cell & gene therapy manufacturing facility	Cancer	--	--	--	--	--	11
05/2023	TScan Therapeutics	Amgen	Co-Market, Dev., Option, Research, Services	Discovery	Use of TScan's proprietary target discovery platform for Crohn's disease	Gastrointestinal	30	--	--	--	500	530
05/2023	Ginkgo Bioworks	Boehringer Ingelheim	Dev., Research	Phase II	Accelerate drug discovery to develop natural product	Other/Miscellaneous	--	--	--	--	--	406
05/2023	DIANTHUS THERAPEUTICS	Magenta Therapeutics	Acquisition	Phase II	Dianthus Therapeutics merger with Magenta Therapeutics	Autoimmune/Inflammatory	--	--	--	--	--	250
05/2023	Marker Therapeutics	CellReady	Asset Purchase, CRO, Dev., Research, Services	Phase II	Dev. of MT-601,MT-401 to use T cell therapy for cancer	Cancer	--	--	--	--	--	30
04/2023	3B Pharmaceuticals	Novartis	Co-Market, Dev., License	Phase I	Licensing agreement for 3BP's FAP-targeting peptide technology including FAP-2286	Cancer	40	--	--	--	425	465
04/2023	Lilly	Zura Bio	Dev., License, Research	Phase I	Licensing transaction for ZB-106, anti-IL-17 and anti-BAFF dual antagonist for autoimmune diseases	Autoimmune/Inflammatory	--	--	--	--	--	84
04/2023	Pipeline Therapeutics	Johnson & Johnson, Janssen	Dev., License, Research	Phase II	Dev. and commercialization of PIPE-307 for relapsing-remitting multiple sclerosis	Central Nervous System	50	--	--	--	1,000	1,050
04/2023	Veru	Blue Water Vaccines	Acquisition, Asset Purchase, Co-Market, Dev., Research	Approved	A purchase agreement for ENTADFI for benign prostatic hyperplasia	Genitourinary/Gynecologic	20	--	--	--	80	100
04/2023	Treventis	Takeda	Co-Market, Co-Promotion, Dev., License, Option, Research	Preclinical	Dev. and commercialization of small molecules for alzheimer's disease	Central Nervous System	--	--	--	--	373	373
04/2023	Omeros	National Institute on Drug Abuse	Dev., Research	Preclinical	Omeros received \$6.69 M grant from NIDA for clinical study of OMS527 for cocaine use disorder	Psychiatric	--	--	--	--	--	7
04/2023	DualityBio	BoNTech	Co-Dev., License, Research, Services	Phase III	Exclusive licenses for BNT323/DB-1303 and DB-1311 for solid tumors, breast Cancer	Cancer	--	--	--	--	--	1,670

Deal Date	Seller	Buyer	Kind of Transaction	Satge of Dev.	Deal Information	Disease Area	Upfront (\$M)	Equity (\$M)	Clinical / Reg. Milestones (\$M)	Other Milestones (\$M)	Commercial Payments (\$M)	Total Deal (\$M)
03/2023	Highlightl Pharma	Biohaven Pharmaceuticals	Dev., License	Phase I	Dev. of BHV- 8000 for Parkinson's disease, Alzheimer's disease, ALS, and Multiple sclerosis	Central Nervous System	10	--	--	--	970	970
03/2023	GrayBug	CalciMedica	Acquisition	Phase II	CalciMedica Inc merger with Graybug Vision	Infectious-Bacterial	--	--	--	--	--	34
03/2023	Opko Health, ModeX Therapeutics	Merck	License	Preclinical	License and collaboration for MDX-2201, a vaccine candidate targeting Epstein-Barr Virus proteins	Infectious-Viral	50	--	--	--	--	923
03/2023	Scynexis	GlaxoSmithKline	Co-Market, Co-Promotion, Dev., License, Research	Approved	Develop and commercialize Brexafemme for the treatment of vulvovaginal candidiasis	Infectious-Miscellaneous	90	--	--	70	358	593
03/2023	Sonoma Pharmaceuticals	Regeneron Pharmaceuticals	Co-Dev., Co-Market, Co-Promotion, Joint Venture, License, Option, Research, Services	Discovery	Combining regenerons VelociSuite with sonomas manufacturing expertise to develop Treg therapies	Autoimmune/Inflammatory, Gastrointestinal	75	--	--	--	45	120
03/2023	Oncoc4	BioNTech	Co-Dev., Co-Market, Co-Promotion, Dev., Research	Phase II	ONC392, CTLA-4 anti-PD-(L)- 1 antibodies for multiple solid tumor Indic.s	Cancer	--	--	--	--	--	200
03/2023	Coya Therapeutics	Dr. Reddy's Laboratories	Co-Market, Co-Promotion, Dev., License, Research	Phase II	COYA 302 for neurodegenerative diseases	Central Nervous System	--	--	--	--	--	733
03/2023	Teijin Pharma	Novartis	Co-Market, Dev., License, Research, Services	Preclinical	Develop and commercialize an investigational preclinical candidate for proteinuric kidney diseases	Renal	30	--	--	--	200	230
03/2023	Volastra Therapeutics, Amgen	Lilly	Co-Market, Co-Promotion, Dev., License, Research	Phase I	AMG650 small molecule inhibitor of KIF18A for cancer worldwide (ex-China)	Cancer	--	--	--	--	--	60
02/2023	Harbour BioMed	Cullinan Oncology	Co-Market, Co-Promotion, Dev., License, Research	Phase I	Dev. of HBM7008 (CLN-418) for solid tumors	Cancer	25	--	--	--	563	588
01/2023	Mabwell	Disc Medicine	License	Phase I	Rights to a portfolio of monoclonal antibodies targeting TMPRSS6 including drug candidate MWTX-003	Hematologic	10	--	--	--	413	423
01/2023	Immunome	AbbVie	Co-Dev., Option	Discovery	Collaboration to identify up to 10 novel antibody-target pairs arising from 3 specific tumor types	Cancer	30	--	--	70	120	220
01/2023	WuXi Biologics	GlaxoSmithKline	Dev., License	Preclinical	Exclusive license agreement for one multi-specific TCE antibody with the option for three additional	Cancer	40	--	--	--	1,460	1,500
12/2022	Novartis	Erasca	Co-Market, Dev., License, Research, Supply	Phase III, Phase II	Develop and commercialize Naporafenib (LXH254) for melanoma and other RAS/MAPK pathway-driven tumors	Cancer	100	--	80	--	200	380
11/2022	Biotheus	Hansoh Pharma	Co-Market, Dev., License	Phase II, Phase I	Agreement for EGFR/MET bispecific antibody (PM1080) in Greater China	Cancer	7	--	--	--	194	201
11/2022	Basilea Pharmaceutica	Twentyeight-Seven Therapeutics	Asset Purchase, Research	Preclinical	Asset purchase agreement for novel inhibitors of CLK kinases, developed by Basilea	Cancer, Other/Miscellaneous	1	--	--	--	395	396
08/2022	Zynerba Pharmaceuticals	Harmony Biosciences	Acquisition	Phase III	Harmony Biosciences acquired Zynerba Pharmaceuticals	Central Nervous System	--	--	--	--	140	200
07/2022	Tarus Therapeutics	Portage Biotech	Acquisition	Phase II	Portage Biotech acquired Tarus Therapeutics	Cancer	21	--	--	--	32	51
06/2022	Proxygen	Merck KGaA	Dev., License, Research	Discovery	Developing molecular glue degraders towards a clinical candidate	Unlimited	--	--	--	--	--	554
06/2022	BioInvent	Exelixis	Co-Dev., License, Option	Preclinical, Discovery	Collaboration to develop antibody-based therapies using n-CoDeR and F.I.R.S.T for cancer	Cancer	25	--	--	--	--	25
05/2022	LaNova Medicines	Turning Point Therapeutics	Co-Market, Dev.	Phase I	Develop and commercialize LM-302 targeting Claudin18.2 in the U.S. and rest of the world	Cancer	25	--	--	--	195	220
03/2022	VCN Biosciences	Synthetic Biologics	Acquisition	Phase II	Synthetic Biologics acquired VCN Biosciences	Cancer	--	--	--	--	--	72
02/2022	Curve Therapeutics	MSD	Co-Market, Dev., Research, Services	Discovery	Discover and validate modulators of up to five therapeutic targets using Microcycle technology	Cancer, Central Nervous System	--	--	--	--	--	1,700
09/2020	Moderna Therapeutics	Vertex	Co-Market, Dev., License, Research, Services	Discovery	Dev. of lipid nanoparticles and mRNAs for gene-editing therapies for cystic fibrosis	Respiratory	75	--	--	--	380	455