



FTIF - Franklin Biotechnology Discovery Fund

April 30, 2019

Portfolio Holdings

The following portfolio data for the Franklin Templeton funds is made available to the public under our Portfolio Holdings Release Policy and is "as of" the date indicated.

This portfolio data should not be relied upon as a complete listing of a fund's holdings (or of a fund's top holdings) as information on particular holdings may be withheld if it is in the fund's interest to do so. Additionally, foreign currency forwards are not included in the portfolio data. Instead, the net market value of all currency forward contracts is included in cash and other net assets of the fund. Further, portfolio holdings data of over-the-counter derivative investments such as Credit Default Swaps, Interest Rate Swaps or other Swap contracts list only the name of counterparty to the derivative contract, not the details of the derivative. Complete portfolio data can be found in the annual financial statements of the fund.

Security Identifier	Security Name	Shares/ Positions Held	Market Value	% of TNA	Coupon Rate	Maturity Date
004225108	ACADIA PHARMACEUTICALS INC	455,100	\$10,945,155	0.60%	N/A	N/A
00434H108	ACCELERON PHARMA INC	400,477	\$16,311,428	0.89%	N/A	N/A
00461U105	ACLARIS THERAPEUTICS INC	1,587,488	\$10,001,174	0.54%	N/A	N/A
00900T107	AIMMUNE THERAPEUTICS INC	239,600	\$4,825,544	0.26%	N/A	N/A
014339105	ALDER BIOPHARMACEUTICALS INC	443,300	\$6,024,447	0.33%	N/A	N/A
014442107	ALECTOR INC	305,700	\$6,071,202	0.33%	N/A	N/A
015351109	ALEXION PHARMACEUTICALS INC	916,600	\$124,776,758	6.78%	N/A	N/A
DDD926837	ALLOGENE THERAPEUTICS INC	283,900	\$8,502,805	0.46%	N/A	N/A
02043Q107	ALNYLAM PHARMACEUTICALS INC	121,100	\$10,819,074	0.59%	N/A	N/A
031162100	AMGEN INC	320,500	\$57,472,060	3.12%	N/A	N/A
03152W109	AMICUS THERAPEUTICS INC	1,270,000	\$16,941,800	0.92%	N/A	N/A
032724106	ANAPTYSBIO INC	163,600	\$11,896,992	0.65%	N/A	N/A
DDD606246	ARCA BIOPHARMA INC	2,068,536	\$82	0.00%	N/A	06/16/22
04016X101	ARGENX SE	214,578	\$27,481,004	1.49%	N/A	N/A
04269X105	ARRAY BIOPHARMA INC	4,044,800	\$91,452,928	4.97%	N/A	N/A
04351P101	ASCENDIS PHARMA A/S	401,767	\$44,748,808	2.43%	N/A	N/A
05070R104	AUDENTES THERAPEUTICS INC	134,900	\$5,097,871	0.28%	N/A	N/A
05156V102	AURINIA PHARMACEUTICALS INC	870,600	\$5,371,602	0.29%	N/A	N/A
09062X103	BIOGEN INC	309,440	\$70,936,025	3.86%	N/A	N/A
BZ8FXC4	BIOHAVEN PHARMACEUTICAL HOLDING CO LTD	168,100	\$10,060,785	0.55%	N/A	N/A
09061G101	BIOMARIN PHARMACEUTICAL INC	693,809	\$59,341,483	3.23%	N/A	N/A
DDD619300	BIOPHARMX CORP	100,000	\$130,000	0.01%	N/A	N/A
DDD630453	BIOPHARMX CORP	162,000	\$1,489	0.00%	N/A	03/29/21
DDD642930	BIOPHARMX CORP	5,555	\$7,221	0.00%	N/A	N/A
DDD653937	BIOPHARMX CORP	2,695,100	\$76,503	0.00%	N/A	11/22/23
09609G100	BLUEBIRD BIO INC	90,900	\$12,892,347	0.70%	N/A	N/A
140755109	CARA THERAPEUTICS INC	290,900	\$5,550,372	0.30%	N/A	N/A
16383L106	CHEMOCENTRYX INC	813,889	\$10,800,307	0.59%	N/A	N/A

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19459J104	COLLEGIUM PHARMACEUTICAL INC	613,936	\$8,552,128	0.46%	N/A	N/A
H17182108	CRISPR THERAPEUTICS AG	257,819	\$10,361,745	0.56%	N/A	N/A
23257D103	CYMABAY THERAPEUTICS INC	684,900	\$8,773,569	0.48%	N/A	N/A
DDD664177	DELMAR PHARMACEUTICALS INC	516,115	\$66	0.00%	N/A	04/12/22
24983L104	DERMIRA INC	832,152	\$9,228,565	0.50%	N/A	N/A
268158201	DYNAVAX TECHNOLOGIES CORP	1,170,560	\$7,784,224	0.42%	N/A	N/A
31189P102	FATE THERAPEUTICS INC	1,930,495	\$32,432,316	1.76%	N/A	N/A
BQRB1Q0	FOAMIX PHARMACEUTICALS LTD	1,221,300	\$3,969,225	0.22%	N/A	N/A
3621LQ109	G1 THERAPEUTICS INC	660,690	\$14,138,766	0.77%	N/A	N/A
375558103	GILEAD SCIENCES INC	962,600	\$62,607,504	3.40%	N/A	N/A
37890U108	GLOBAL BLOOD THERAPEUTICS INC	321,300	\$17,800,020	0.97%	N/A	N/A
38000Q102	GLYCOMIMETICS INC	1,066,979	\$12,985,134	0.71%	N/A	N/A
38341P102	GOSSAMER BIO INC	382,100	\$6,480,416	0.35%	N/A	N/A
B94RPL5	GW PHARMACEUTICALS PLC	399,800	\$67,690,138	3.68%	N/A	N/A
427746102	HERON THERAPEUTICS INC	2,204,320	\$47,789,657	2.60%	N/A	N/A
438083107	HOMOLOGY MEDICINES INC	225,100	\$4,844,152	0.26%	N/A	N/A
452327109	ILLUMINA INC	283,600	\$88,483,200	4.81%	N/A	N/A
452907108	IMMUNOMEDICS INC	558,000	\$8,939,160	0.49%	N/A	N/A
DDD573353	INTARCIA THERAPEUTICS INC	166,795	\$1,336,389	0.07%	N/A	N/A
45845P108	INTERCEPT PHARMACEUTICALS INC	261,800	\$22,561,924	1.23%	N/A	N/A
46116X101	INTRA-CELLULAR THERAPIES INC	378,700	\$4,987,479	0.27%	N/A	N/A
462222100	IONIS PHARMACEUTICALS INC	161,200	\$11,981,996	0.65%	N/A	N/A
462260100	IOVANCE BIOTHERAPEUTICS INC	3,439,179	\$39,206,640	2.13%	N/A	N/A
BF3W0Q3	ITERUM THERAPEUTICS PLC	212,778	\$1,723,501	0.09%	N/A	N/A
B4Q5ZN4	JAZZ PHARMACEUTICALS PLC	296,031	\$38,415,942	2.09%	N/A	N/A
DDD878132	KEZAR LIFE SCIENCES INC	202,600	\$3,823,062	0.21%	N/A	N/A
54142F102	LOGICBIO THERAPEUTICS INC	419,300	\$5,706,673	0.31%	N/A	N/A
556099109	MACROGENICS INC	279,000	\$4,678,830	0.25%	N/A	N/A
56854Q101	MARINUS PHARMACEUTICALS INC	1,488,465	\$7,353,017	0.40%	N/A	N/A
DDD876446	METACRINE INC	2,207,049	\$3,239,722	0.18%	N/A	N/A
603380106	MINERVA NEUROSCIENCES INC	708,300	\$5,220,171	0.28%	N/A	N/A
60468T105	MIRATI THERAPEUTICS INC	248,500	\$14,783,265	0.80%	N/A	N/A
DDD597503	MOLECULAR TEMPLATES INC	60,045	\$24	0.00%	N/A	02/28/20
617760202	MORPHOSYS AG	394,100	\$9,718,506	0.53%	N/A	N/A
64052L106	NEOS THERAPEUTICS INC	829,100	\$1,998,131	0.11%	N/A	N/A
64125C109	NEUROCRINE BIOSCIENCES INC	468,405	\$33,837,577	1.84%	N/A	N/A
66988N106	NOVAN INC	197,064	\$293,625	0.02%	N/A	N/A
676079106	ODONATE THERAPEUTICS INC	684,312	\$13,453,573	0.73%	N/A	N/A
68404V100	OPTINOSE INC	376,600	\$3,750,936	0.20%	N/A	N/A
717071104	PFENEX INC	1,430,985	\$8,285,403	0.45%	N/A	N/A

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737010108	PORTOLA PHARMACEUTICALS INC	583,000	\$20,579,900	1.12%	N/A	N/A
74019P108	PRECISION BIOSCIENCES INC	135,700	\$1,764,100	0.10%	N/A	N/A
DDD971904	PRECISION BIOSCIENCES INC	583,605	\$6,813,102	0.37%	N/A	N/A
74257L108	PRINCIPIA BIOPHARMA INC	132,400	\$3,960,084	0.22%	N/A	N/A
69366J200	PTC THERAPEUTICS INC	907,700	\$33,966,134	1.85%	N/A	N/A
75615P103	REATA PHARMACEUTICALS INC	377,200	\$29,595,112	1.61%	N/A	N/A
75886F107	REGENERON PHARMACEUTICALS INC	192,800	\$66,157,392	3.60%	N/A	N/A
75901B107	REGENXBIO INC	329,500	\$16,606,800	0.90%	N/A	N/A
761330109	REVANCE THERAPEUTICS INC	1,016,471	\$13,458,076	0.73%	N/A	N/A
45780V102	ROCKET PHARMACEUTICALS INC	281,703	\$5,228,407	0.28%	N/A	N/A
78116T103	RUBIUS THERAPEUTICS INC	260,800	\$4,561,392	0.25%	N/A	N/A
78667J108	SAGE THERAPEUTICS INC	224,530	\$37,772,681	2.05%	N/A	N/A
803607100	SAREPTA THERAPEUTICS INC	217,500	\$25,434,450	1.38%	N/A	N/A
88338N107	THERAPEUTICSMD INC	4,559,748	\$19,606,916	1.07%	N/A	N/A
DDD810924	TRUE NORTH THERAPEUTICS INC	1,239,800	\$1,628,094	0.09%	N/A	N/A
BJFSR88	UNIQURE NV	316,100	\$17,761,659	0.97%	N/A	N/A
92532F100	VERTEX PHARMACEUTICALS INC	545,562	\$92,189,066	5.01%	N/A	N/A
98401F105	XENCOR INC	279,300	\$8,577,303	0.47%	N/A	N/A
98978L204	ZOGENIX INC	429,910	\$16,762,190	0.91%	N/A	N/A
98985W102	ZYMEWORKS INC	384,295	\$7,324,662	0.40%	N/A	N/A

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