



FTIF - Franklin Biotechnology Discovery Fund

February 28, 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 semi- and 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	\$12,060,150	0.63%	N/A	N/A
00434H108	ACCELERON PHARMA INC	400,477	\$17,637,007	0.92%	N/A	N/A
00461U105	ACLARIS THERAPEUTICS INC	1,587,488	\$10,286,922	0.53%	N/A	N/A
00900T107	AIMMUNE THERAPEUTICS INC	239,600	\$5,771,964	0.30%	N/A	N/A
014442107	ALECTOR INC	305,700	\$5,988,663	0.31%	N/A	N/A
015351109	ALEXION PHARMACEUTICALS INC	1,165,800	\$157,767,714	8.19%	N/A	N/A
DDD926837	ALLOGENE THERAPEUTICS INC	283,900	\$8,996,791	0.47%	N/A	N/A
02043Q107	ALNYLAM PHARMACEUTICALS INC	121,100	\$10,293,500	0.53%	N/A	N/A
031162100	AMGEN INC	331,700	\$63,049,536	3.27%	N/A	N/A
03152W109	AMICUS THERAPEUTICS INC	1,270,000	\$15,367,000	0.80%	N/A	N/A
032724106	ANAPTYSBIO INC	163,600	\$11,267,132	0.58%	N/A	N/A
DDD606246	ARCA BIOPHARMA INC	2,068,536	\$11,987	0.00%	N/A	06/16/22
04016X101	ARGENX SE	210,378	\$28,041,283	1.45%	N/A	N/A
04269X105	ARRAY BIOPHARMA INC	4,419,900	\$101,392,506	5.26%	N/A	N/A
04351P101	ASCENDIS PHARMA A/S	337,967	\$24,610,756	1.28%	N/A	N/A
045396108	ASSEMBLY BIOSCIENCES INC	121,400	\$2,596,746	0.13%	N/A	N/A
05156V102	AURINIA PHARMACEUTICALS INC	1,088,900	\$7,350,075	0.38%	N/A	N/A
449370105	BIOGEN INC	393,140	\$128,953,851	6.69%	N/A	N/A
09061G101	BIOMARIN PHARMACEUTICAL INC	693,809	\$64,704,627	3.36%	N/A	N/A
DDD619300	BIOPHARMX CORP	2,500,000	\$264,250	0.01%	N/A	N/A
DDD630453	BIOPHARMX CORP	162,000	\$2	0.00%	N/A	03/29/21
DDD642930	BIOPHARMX CORP	138,878	\$14,679	0.00%	N/A	N/A
DDD653937	BIOPHARMX CORP	2,695,100	\$23,627	0.00%	N/A	11/22/23
09609G100	BLUEBIRD BIO INC	90,900	\$14,109,498	0.73%	N/A	N/A
140755109	CARA THERAPEUTICS INC	290,900	\$4,959,845	0.26%	N/A	N/A
16383L106	CHEMOCENTRYX INC	854,389	\$9,184,681	0.48%	N/A	N/A
19459J104	COLLEGIUM PHARMACEUTICAL INC	642,536	\$11,302,208	0.59%	N/A	N/A
206022105	CONCERT PHARMACEUTICALS INC	349,200	\$5,304,348	0.28%	N/A	N/A

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H17182108	CRISPR THERAPEUTICS AG	283,019	\$10,016,042	0.52%	N/A	N/A
23257D103	CYMABAY THERAPEUTICS INC	592,700	\$6,999,787	0.36%	N/A	N/A
DDD664177	DELMAR PHARMACEUTICALS INC	516,115	\$209	0.00%	N/A	04/12/22
24983L104	DERMIRA INC	1,557,000	\$13,000,950	0.67%	N/A	N/A
268158201	DYNAVAX TECHNOLOGIES CORP	1,170,560	\$10,769,152	0.56%	N/A	N/A
31189P102	FATE THERAPEUTICS INC	1,983,995	\$31,168,561	1.62%	N/A	N/A
BQRB1Q0	FOAMIX PHARMACEUTICALS LTD	1,221,300	\$4,054,716	0.21%	N/A	N/A
3621LQ109	G1 THERAPEUTICS INC	660,690	\$12,196,337	0.63%	N/A	N/A
375558103	GILEAD SCIENCES INC	1,001,000	\$65,085,020	3.38%	N/A	N/A
37890U108	GLOBAL BLOOD THERAPEUTICS INC	321,300	\$16,868,250	0.88%	N/A	N/A
38000Q102	GLYCOMIMETICS INC	1,190,979	\$14,637,131	0.76%	N/A	N/A
38341P102	GOSSAMER BIO INC	382,100	\$8,341,243	0.43%	N/A	N/A
40131M109	GUARDANT HEALTH INC	32,400	\$2,159,136	0.11%	N/A	N/A
B94RPL5	GW PHARMACEUTICALS PLC	227,900	\$39,201,079	2.03%	N/A	N/A
427746102	HERON THERAPEUTICS INC	2,293,120	\$60,698,886	3.15%	N/A	N/A
438083107	HOMOLOGY MEDICINES INC	225,100	\$6,635,948	0.34%	N/A	N/A
452327109	ILLUMINA INC	295,400	\$92,392,258	4.79%	N/A	N/A
452907108	IMMUNOMEDICS INC	558,000	\$8,794,080	0.46%	N/A	N/A
DDD573353	INTARCIA THERAPEUTICS INC	166,795	\$2,824,911	0.15%	N/A	N/A
45845P108	INTERCEPT PHARMACEUTICALS INC	180,600	\$18,013,044	0.93%	N/A	N/A
46116X101	INTRA-CELLULAR THERAPIES INC	378,700	\$5,157,894	0.27%	N/A	N/A
462222100	IONIS PHARMACEUTICALS INC	161,200	\$11,443,588	0.59%	N/A	N/A
462260100	IOVANCE BIOTHERAPEUTICS INC	3,486,479	\$35,806,139	1.86%	N/A	N/A
BF3W0Q3	ITERUM THERAPEUTICS PLC	212,778	\$1,149,001	0.06%	N/A	N/A
B4Q5ZN4	JAZZ PHARMACEUTICALS PLC	290,631	\$40,697,058	2.11%	N/A	N/A
DDD878132	KEZAR LIFE SCIENCES INC	202,600	\$4,122,910	0.21%	N/A	N/A
54142F102	LOGICBIO THERAPEUTICS INC	419,300	\$3,844,981	0.20%	N/A	N/A
556099109	MACROGENICS INC	279,000	\$5,580,000	0.29%	N/A	N/A
56854Q101	MARINUS PHARMACEUTICALS INC	1,488,465	\$5,105,434	0.26%	N/A	N/A
DDD876446	METACRINE INC	2,207,049	\$3,134,009	0.16%	N/A	N/A
603380106	MINERVA NEUROSCIENCES INC	708,300	\$5,616,819	0.29%	N/A	N/A
60468T105	MIRATI THERAPEUTICS INC	159,200	\$11,589,760	0.60%	N/A	N/A
DDD597503	MOLECULAR TEMPLATES INC	60,045	\$62	0.00%	N/A	02/28/20
617760202	MORPHOSYS AG	394,100	\$10,140,193	0.53%	N/A	N/A
64052L106	NEOS THERAPEUTICS INC	829,100	\$1,898,639	0.10%	N/A	N/A
64125C109	NEUROCRINE BIOSCIENCES INC	621,705	\$48,026,711	2.49%	N/A	N/A
66988N106	NOVAN INC	197,064	\$242,388	0.01%	N/A	N/A
676079106	ODONATE THERAPEUTICS INC	756,812	\$12,472,261	0.65%	N/A	N/A
68404V100	OPTINOSE INC	376,600	\$2,794,372	0.14%	N/A	N/A
717071104	PFENEX INC	1,430,985	\$6,425,122	0.33%	N/A	N/A

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737010108	PORTOLA PHARMACEUTICALS INC	655,400	\$20,127,334	1.04%	N/A	N/A
DDD875724	PRECISION BIOSCIENCES INC	1,245,815	\$6,241,533	0.32%	N/A	N/A
74257L108	PRINCIPIA BIOPHARMA INC	132,400	\$4,689,608	0.24%	N/A	N/A
69366J200	PTC THERAPEUTICS INC	888,050	\$30,673,247	1.59%	N/A	N/A
75615P103	REATA PHARMACEUTICALS INC	399,000	\$37,641,660	1.95%	N/A	N/A
75886F107	REGENERON PHARMACEUTICALS INC	196,100	\$84,468,114	4.38%	N/A	N/A
75901B107	REGENXBIO INC	358,100	\$18,524,513	0.96%	N/A	N/A
761330109	REVANCE THERAPEUTICS INC	1,016,471	\$17,219,018	0.89%	N/A	N/A
45780V102	ROCKET PHARMACEUTICALS INC	143,403	\$2,496,646	0.13%	N/A	N/A
78116T103	RUBIUS THERAPEUTICS INC	260,800	\$4,141,504	0.21%	N/A	N/A
78667J108	SAGE THERAPEUTICS INC	224,530	\$35,756,402	1.86%	N/A	N/A
803607100	SAREPTA THERAPEUTICS INC	217,500	\$31,372,200	1.63%	N/A	N/A
88338N107	THERAPEUTICSMD INC	4,559,748	\$26,081,758	1.35%	N/A	N/A
DDD810924	TRUE NORTH THERAPEUTICS INC	1,239,800	\$1,602,367	0.08%	N/A	N/A
BJFSR88	UNIQURE NV	135,100	\$7,294,049	0.38%	N/A	N/A
92532F100	VERTEX PHARMACEUTICALS INC	621,062	\$117,225,452	6.08%	N/A	N/A
98401F105	XENCOR INC	279,300	\$8,473,962	0.44%	N/A	N/A
98978L204	ZOGENIX INC	440,210	\$23,212,273	1.20%	N/A	N/A
98985W102	ZYMEWORKS INC	384,295	\$5,810,540	0.30%	N/A	N/A

Important Information

- *Source: Franklin Templeton Investments as at 28/02/19, unless stated otherwise. The fund is a subfund of Franklin Templeton Investment Funds, a Luxembourg-domiciled SICAV. For further information please refer to the relevant Full Prospectus and the relevant Key Investor Information Document.*
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Franklin Templeton Investments
Blasieholmsgatan 5
SE-111 48 Stockholm, Sweden

franklintempletonnordic.com