



INDEXES

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Information about the index, including rule book, company description and historic data, can be found at:  
[www.poliwoggindexes.com](http://www.poliwoggindexes.com)

TICKERS:

Poliwogg Medical Breakthroughs Index: PMBI

Poliwogg Medical Breakthroughs Total Return Index: PMBITR

June 2018

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## Q2 2018 Review: Poliwogg Medical Breakthroughs Index

**Index Performance.** The Poliwogg Medical Breakthroughs Total Return Index (TICKER: PMBITR) increased +8.75% from 7790.61 to 8471.91 in the quarter ended June 2018. This compares to an increase in The S-Network 500 Total Return Index (TICKER: SN500T) of +3.33% and an increase in the Dynamic Biotech & Genome Intellidex Total Return Index (TICKER: DZOTR) of +11.29%.

The Poliwogg Medical Breakthroughs Index rose +36.96% in the past 12 months. This compares to a +14.95% rise in the S-Network 500 Total Return Index and a +20.14% rise in the Dynamic Biotech & Genome Intellidex Total Return Index.

**Index Description.** The Poliwogg Medical Breakthroughs Index (TICKER: PMBI) is designed to capture research and development opportunities in the pharmaceutical industry. PMBI consists of small-cap and mid-cap pharmaceutical and biotechnology stocks listed on US stock exchanges that have one or more drugs in either Phase II or Phase III US FDA clinical trials.

**Inclusion Criteria.** PMBI consists of companies listed on US stock exchanges principally engaged in one of the following healthcare industries: a) Biotechnology and b) Pharmaceuticals. Constituents must have a market capitalization of no less than \$200 million and no more than \$5 billion. Constituents must sustain an average daily trading volume in excess of \$1 million for the 90-day period preceding a reconstitution. Constituents must have one or more drugs in either Phase II or Phase III US FDA clinical trials. Constituents must be able to sustain their cash burn rates for at least 24 months.

**Weighting Methodology.** PMBI uses a modified capitalization weighting methodology, which is not adjusted for float. The index weight of the largest stock is capped at 4.5% and the excess weight is redistributed proportionately over the remainder of the index.

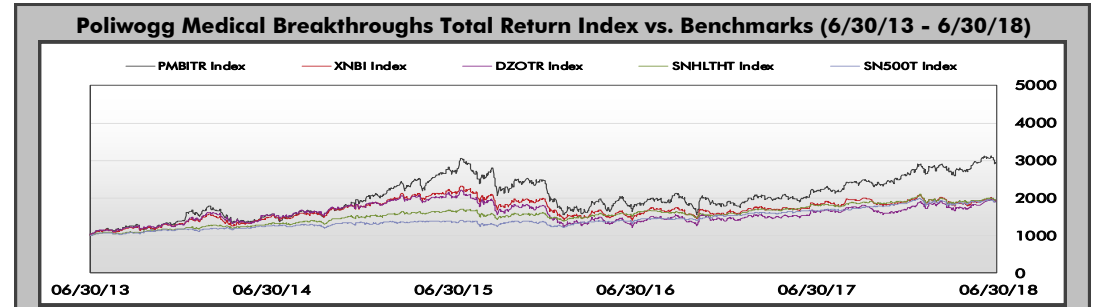
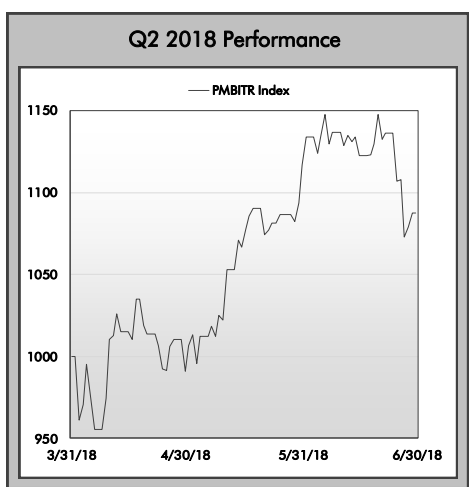
**Rebalancing.** PMBI is reconstituted semi-annually on the third Friday of June and December of each year. In addition, PMBI is rebalanced quarterly on the third Friday of the last month of each calendar quarter.

**Index Data.** PMBI is calculated daily by S-Network Global Indexes. Daily values from December 31, 2006 are available on the Poliwogg website and through various data vendors. End-of-day index values are distributed via daily the Chicago Mercantile Exchange Feed.

Leading Movers				
Company Name	Ticker	Opening	Closing	Change
MADRIGAL PHARMACEUTICALS INC	MDGL UQ	116.79	279.69	139.48%
CASI PHARMACEUTICALS INC	CASI UQ	4.17	8.23	97.36%
ARQULE INC	ARQL UQ	2.88	5.53	92.01%
RA PHARMACEUTICALS INC.	RARX UQ	5.31	9.95	87.38%
MARINUS PHARMACEUTICALS INC	MRNS UQ	3.82	7.07	85.08%

Lagging Movers				
Company Name	Ticker	Opening	Closing	Change
AQUINOX PHARMACEUTICALS INC	AQXP UQ	14.08	2.65	-81.18%
JOUNCE THERAPEUTICS INC.	JNCE UQ	22.35	7.66	-65.73%
CATALYST BIOSCIENCES INC	CBIO UQ	25.80	11.67	-54.77%
SYNDAX PHARMACEUTICALS INC.	SNDX UQ	14.23	7.02	-50.67%
STRONGBRIDGE BIOPHARMA PLC	SBBP UQ	8.85	6.00	-32.20%



\*Note: This chart is a normalized historical graph  
 Data Source: Bloomberg Data as of June 30, 2018

This chart is for illustrative purposes only. Historical information is not indicative of future results; current data may differ from data quoted. Investors cannot invest directly in index. Index returns do not reflect any management fees or brokerage expenses.

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Index Statistical Profile

Capitalization Profile	
Number of Constituents	111
TOTAL MARKET CAPITALIZATION	152.96 Billion USD
LARGEST MARKET CAPITALIZATION	5.23 Billion USD
SMALLEST MARKET CAPITALIZATION	62.30 Million USD
AVERAGE MARKET CAPITALIZATION	1.38 Billion USD
MEDIAN MARKET CAPITALIZATION	805.79 Million USD

Total Return Appreciation					
	PMBITR	XNBI	DZOTR	SNHLTHT	SN500T
10 Year	803.56%	347.93%	242.49%	244.74%	166.00%
5 Year	195.45%	93.89%	94.42%	94.80%	89.72%
3 Year	7.86%	-9.45%	-4.98%	19.17%	40.61%
1 Year	36.96%	6.91%	20.14%	8.47%	14.95%

Compound Annual Growth Rate (CAGR)					
	PMBITR	XNBI	DZOTR	SNHLTHT	SN500T
10 Year	24.62%	16.18%	13.10%	13.17%	10.28%
5 Year	24.19%	14.16%	14.22%	14.27%	13.66%
3 Year	2.55%	-3.26%	-1.69%	6.02%	12.03%
1 Year	36.96%	6.91%	20.14%	8.47%	14.95%

Annualized Standard Deviation (Monthly)					
	PMBITR	XNBI	DZOTR	SNHLTHT	SN500T
10 Year	27.63%	21.31%	23.25%	13.81%	14.53%
5 Year	31.43%	22.57%	24.46%	12.09%	9.90%
3 Year	32.27%	23.27%	25.96%	13.13%	10.25%
1 Year	18.47%	13.72%	17.34%	9.75%	8.81%

Sharpe Ratio					
	PMBITR	XNBI	DZOTR	SNHLTHT	SN500T
10 Year	0.9321	0.8002	0.6358	0.9467	0.7268
5 Year	0.8414	0.6841	0.6524	1.1312	1.3028
3 Year	0.2235	-0.0546	0.0400	0.4553	1.0919
1 Year	1.7288	0.4465	1.0608	0.7337	1.4675

\*All data as of June 30, 2018

\*\*Dependent variable shown in Column Headers, Independent shown in Row Headers

Top Ten Constituents			
Company	Ticker	Country	Weight
FIBROGEN INC	FGEN UQ	United States	3.48%
LOXO ONCOLOGY INC	LOXO UQ	United States	3.47%
UNITED THERAPEUTICS CORP	UTHR UQ	United States	3.28%
AGIOS PHARMACEUTICALS INC	AGIO UQ	United States	3.23%
GALAPAGOS N.V. ADS	GLPG UQ	Belgium	3.11%
TARO PHARMACEUTICAL INDUSTRIES	TARO UN	Israel	3.09%
LIGAND PHARMACEUTICAL INC B	LGND UQ	United States	2.94%
HUTCHISON CHINA MEDITECH LTD ADR	HCM UQ	Hong Kong	2.66%
MADRIGAL PHARMACEUTICALS INC	MDGL UQ	United States	2.65%
IMMUNOMEDICS INC	IMMU UQ	United States	2.63%

Beta Matrix** (5 Year/Monthly)					
	PMBITR	XNBI	DZOTR	SNHLTHT	SN500T
PMBITR	1.0000	0.6755	0.7152	0.2951	0.1574
XNBI	1.3100	1.0000	1.0398	0.4595	0.2575
DZOTR	1.1808	0.8853	1.0000	0.4036	0.2246
SNHLTHT	1.9929	1.6001	1.6508	1.0000	0.6519
SN500T	1.5852	1.3375	1.3699	0.9723	1.0000

Correlation Matrix** (5 Year/Monthly)					
	PMBITR	XNBI	DZOTR	SNHLTHT	SN500T
PMBITR	1.0000				
XNBI	0.9407	1.0000			
DZOTR	0.9190	0.9594	1.0000		
SNHLTHT	0.7669	0.8575	0.8163	1.0000	
SN500T	0.4995	0.5869	0.5546	0.7961	1.0000

R-Square Matrix** (5 Year/Monthly)					
	PMBITR	XNBI	DZOTR	SNHLTHT	SN500T
PMBITR	1.0000				
XNBI	0.8849	1.0000			
DZOTR	0.8445	0.9205	1.0000		
SNHLTHT	0.5881	0.7352	0.6663	1.0000	
SN500T	0.2495	0.3444	0.3076	0.6338	1.0000

Index Composition

