



Contact Information

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

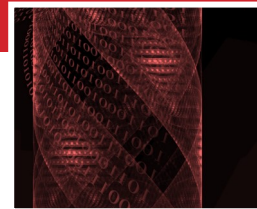
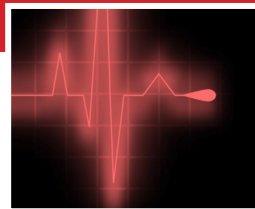
TICKERS:

S-Network Biopharma M&A Index  
Index: PBMA

S-Network Biopharma M&A Index Total  
Return Index: PBMATR

September 2020

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Q3 2020 Review: S-Network Biopharma M&A Total Return Index

**Index Performance.** The S-Network Biopharma M&A Total Return Index (TICKER: PBMATR) increased +1.72% from 7293.70 to 7419.45 in the quarter ended September 30, 2020. This compares to an increase in S-Network US Equity Large-Cap 500 Total Return Index (TICKER: SN500T) of +9.97% and a decrease in the Dynamic Biotech & Genome Intellidex Total Return Index (TICKER: DZOTR) of -2.67%.

The S-Network Biopharma M&A Total Return Index rose +42.84% in the past 12 months. This compares to a +18.44% rise in the S-Network US Equity Large-Cap 500 Total Return Index and a +20.32% rise in the Dynamic Biotech & Genome Intellidex Total Return Index.

**Index Description.** The S-Network Biopharma M&A Index (TICKER: PBMA) is designed to capture merger and acquisition opportunities in the pharmaceutical industry. consists of small-cap and mid-cap pharmaceutical and biotechnology stocks listed on US stock exchanges that have either year on year sales growth or one or more drugs in Phase II or Phase III US FDA clinical trials.

**Inclusion Criteria.** PBMA consists of companies listed on a US stock exchange and principally engaged in one of the following healthcare sectors: a) biotechnology and b) pharmaceuticals. Constituents must have a market capitalization of no less than \$1 billion and no more than \$15 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 Food and Drug Administration (FDA) clinical trials or year on year sale growth .

**Weighting Methodology.** PBMA uses a modified capitalization weighting methodology, which is not adjusted for float. The index weight of the largest stock is capped at 3.0% and the excess weight is redistributed proportionately over the remainder of the index. The index weight of the smallest stock is 0.5%.

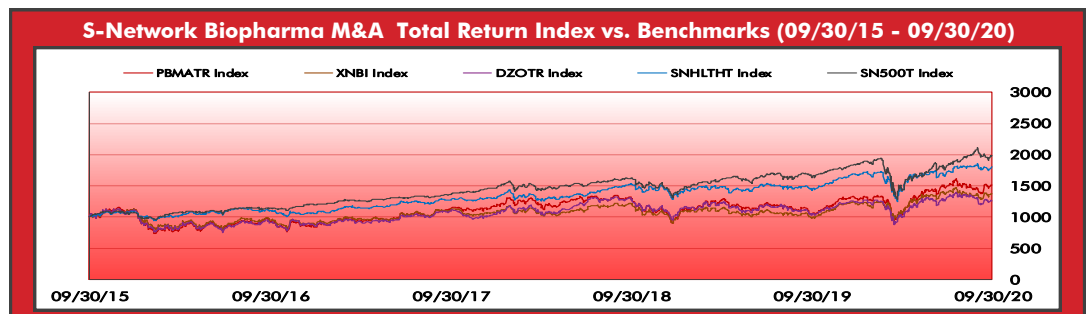
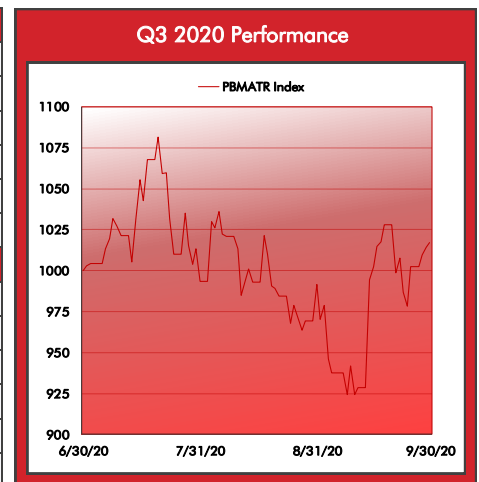
**Rebalancing.** PBMA is reconstituted semi-annually on the third Friday of June and December of each year. In addition, is rebalanced quarterly on the third Friday of the last month of each calendar quarter.

**Index Data.** PBMA 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 daily via the NYSE Global Index Feed .

Leading Movers				
Company Name	Ticker	Opening	Closing	Change
IMMUNOMEDICS INC	IMMU US	35.44	85.03	139.93%
AIMMUNE THERAPEUTICS INC	AIMT US	16.71	34.45	106.16%
SORRENTO THERAPEUTICS INC	SRNE US	6.28	11.15	77.55%
TWIST BIOSCIENCE CORP	TWST US	45.30	75.97	67.70%
MESOBLAST LTD	MESO US	11.39	18.59	63.17%

Lagging Movers				
Company Name	Ticker	Opening	Closing	Change
AKEBIA THERAPEUTICS INC	AKBA US	13.58	2.51	-81.52%
ODONATE THERAPEUTICS INC	ODT US	42.34	13.43	-68.28%
ALECTOR INC	ALEC US	24.44	10.54	-56.89%
KINIKSA PHARMACEUTICALS LTD	KNSA US	25.48	15.32	-39.87%
BIOMARIN PHARMACEUTICAL INC	BMRN US	123.34	76.08	-38.32%



\*Note: This chart is a normalized historical graph  
Data Source: Bloomberg Data as of September 30, 2020

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.

Index Statistical Profile

Capitalization Profile	
Number of Constituents	111
TOTAL MARKET CAPITALIZATION	550.52 Billion USD
LARGEST MARKET CAPITALIZATION	34.05 Billion USD
SMALLEST MARKET CAPITALIZATION	354.54 Million USD
AVERAGE MARKET CAPITALIZATION	4.96 Billion USD
MEDIAN MARKET CAPITALIZATION	2.84 Billion USD

Total Return Appreciation					
	PBMATR	XNBI	DZOTR	SNHLTHT	SN500T
10 Year	483.76%	393.74%	209.47%	337.19%	275.32%
5 Year	51.68%	37.74%	26.63%	81.27%	99.30%
3 Year	33.89%	23.88%	15.15%	41.99%	45.74%
1 Year	42.84%	36.90%	20.32%	23.39%	18.44%

Compound Annual Growth Rate (CAGR)					
	PBMATR	XNBI	DZOTR	SNHLTHT	SN500T
10 Year	19.30%	17.31%	11.96%	15.90%	14.14%
5 Year	8.69%	6.61%	4.84%	12.63%	14.79%
3 Year	10.22%	7.40%	4.81%	12.40%	13.38%
1 Year	42.84%	36.90%	20.32%	23.39%	18.44%

Annualized Standard Deviation (Monthly)					
	PBMATR	XNBI	DZOTR	SNHLTHT	SN500T
10 Year	24.95%	21.18%	22.73%	13.10%	13.38%
5 Year	27.45%	23.13%	24.47%	14.59%	15.10%
3 Year	26.64%	22.41%	23.24%	16.10%	18.05%
1 Year	29.71%	22.41%	23.66%	18.71%	24.04%

Sharpe Ratio					
	PBMATR	XNBI	DZOTR	SNHLTHT	SN500T
10 Year	0.8147	0.8367	0.5871	1.1517	1.0147
5 Year	0.4025	0.3440	0.2704	0.8117	0.9171
3 Year	0.4346	0.3567	0.2467	0.7080	0.6998
1 Year	1.3231	1.4835	0.8604	1.1757	0.7885

Top Ten Constituents			
Company	Ticker	Country	Weight
SEATTLE GENETICS INC	SGEN US	United States	3.60%
IMMUNOMEDICS INC	IMMU US	United States	3.36%
MODERNA INC	MRNA US	United States	3.29%
ALNYLAM PHARMACEUTICALS INC	ALNY US	United States	3.28%
BEIGENE LTD	BGNE US	China	3.17%
HORIZON THERAPEUTICS PLC	HZNP US	United States	3.04%
ALEXION PHARMACEUTICALS INC	ALXN US	United States	3.00%
BIONTECH SE	BNTX US	Germany	2.93%
CATALENT INC	CTLT US	United States	2.86%
INCYTE CORP	INCY US	United States	2.81%

Beta Matrix** (5 Year/Monthly)					
	PBMATR	XNBI	DZOTR	SNHLTHT	SN500T
PBMATR	1.0000	0.8089	0.8438	0.4306	0.3898
XNBI	1.1396	1.0000	1.0159	0.5362	0.4386
DZOTR	1.0621	0.9076	1.0000	0.5091	0.4416
SNHLTHT	1.5250	1.3476	1.4322	1.0000	0.8460
SN500T	1.2888	1.0295	1.1602	0.7900	1.0000

Correlation Matrix** (5 Year/Monthly)					
	PBMATR	XNBI	DZOTR	SNHLTHT	SN500T
PBMATR	1.0000				
XNBI	0.9601	1.0000			
DZOTR	0.9467	0.9603	1.0000		
SNHLTHT	0.8104	0.8500	0.8538	1.0000	
SN500T	0.7088	0.6720	0.7158	0.8176	1.0000

R-Square Matrix** (5 Year/Monthly)					
	PBMATR	XNBI	DZOTR	SNHLTHT	SN500T
PBMATR	1.0000				
XNBI	0.9218	1.0000			
DZOTR	0.8962	0.9221	1.0000		
SNHLTHT	0.6567	0.7226	0.7290	1.0000	
SN500T	0.5023	0.4516	0.5124	0.6684	1.0000

\*All data as of September 30, 2020

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

Index Composition

