

John Hancock New Opportunities Fund

Summary prospectus 1/1/21

Before you invest, you may want to review the fund's prospectus, which contains more information about the fund and its risks. You can find the fund's prospectus and other information about the fund, including the Statement of Additional Information and most recent reports, online at www.jhinvestments.com/prospectuses. You can also get this information at no cost by calling 800-225-5291 (Class A and Class C) or 888-972-8696 (Class I and Class R Suite) or by sending an email request to info@jhinvestments.com. The fund's prospectus and Statement of Additional Information, both dated 1/1/21, as may be supplemented, and most recent financial highlights information included in the shareholder report, dated 8/31/20, are incorporated by reference into this summary prospectus.

TICKERS

A: JASOX C: JBSOX I: JHSOX R2: JSSOX R4: JUSOX R6: JWSOX

INVESTMENT OBJECTIVE

The fund seeks long-term capital appreciation.

FEES AND EXPENSES

This table describes the fees and expenses you may pay if you buy, hold, and sell shares of the fund. You may qualify for sales charge discounts on Class A shares if you and your family invest, or agree to invest in the future, at least \$50,000 in the John Hancock family of funds. Intermediaries may have different policies and procedures regarding the availability of front-end sales charge waivers or contingent deferred sales charge (CDSC) waivers (See Appendix 1 - Intermediary sales charge waivers, which includes information about specific sales charge waivers applicable to the intermediaries identified therein). Although the fund does not impose any sales charges on Class I shares, you may pay commissions to your broker on your purchases and sales of Class I shares, which are not reflected in the table and example below. More information about these and other discounts is available from your financial professional and on pages 18 to 19 of the prospectus under "Sales charge reductions and waivers" or pages 167 to 170 of the fund's Statement of Additional Information under "Sales Charges on Class A and Class C Shares."

| Shareholder fees (%) (fees paid directly from your investment) | A | C | I | R2 | R4 | R6 |
|--|-------------|-------------|-------------|-------------------|--------------------|-------------|
| Maximum front-end sales charge (load) on purchases, as a % of purchase price | 5.00 | None | None | None | None | None |
| Maximum deferred sales charge (load) as a % of purchase or sale price, whichever is less (on certain purchases, including those of \$1 million or more) | 1.00 | 1.00 | None | None | None | None |
| Small account fee (for fund account balances under \$1,000) (\$) | 20 | 20 | None | None | None | None |
| Annual fund operating expenses (%) (expenses that you pay each year as a percentage of the value of your investment) | A | C | I | R2 | R4 | R6 |
| Management fee | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| Distribution and service (Rule 12b-1) fees | 0.25 | 1.00 | 0.00 | 0.25 | 0.25 | 0.00 |
| Other expenses | | | | | | |
| Service plan fee | 0.00 | 0.00 | 0.00 | 0.25 ¹ | 0.10 ¹ | 0.00 |
| Additional other expenses | 0.28 | 0.28 | 0.28 | 0.17 | 0.17 | 0.17 |
| Total other expenses | 0.28 | 0.28 | 0.28 | 0.42 | 0.27 | 0.17 |
| Total annual fund operating expenses | 1.26 | 2.01 | 1.01 | 1.40 | 1.25 | 0.90 |
| Contractual expense reimbursement ² | -0.01 | -0.01 | -0.01 | -0.01 | -0.11 ³ | -0.01 |
| Total annual fund operating expenses after expense reimbursements | 1.25 | 2.00 | 1.00 | 1.39 | 1.14 | 0.89 |

- "Service plan fee" has been restated to reflect maximum allowable fees.
- The advisor contractually agrees to waive a portion of its management fee and/or reimburse expenses for the fund and certain other John Hancock funds according to an asset level breakpoint schedule that is based on the aggregate net assets of all the funds participating in the waiver or reimbursement. This waiver is allocated proportionally among the participating funds. During its most recent fiscal year, the fund's reimbursement amounted to 0.01% of the fund's average daily net assets. This agreement expires on July 31, 2022, unless renewed by mutual agreement of the fund and the advisor based upon a determination that this is appropriate under the circumstances at that time.
- The distributor contractually agrees to limit its Rule 12b-1 fees for Class R4 shares to 0.15%. This agreement expires on December 31, 2021, unless renewed by mutual agreement of the fund and the distributor based upon a determination that this is appropriate under the circumstances at that time.

EXPENSE EXAMPLE

This example is intended to help you compare the cost of investing in the fund with the cost of investing in other mutual funds. Please see below a hypothetical example showing the expenses of a \$10,000 investment for the time periods indicated and then, except as shown below, assuming you sell all of your shares

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at the end of those periods. The example assumes a 5% average annual return and that fund expenses will not change over the periods. Although your actual costs may be higher or lower, based on these assumptions, your costs would be:

| Expenses (\$) | A | C | | I | R2 | R4 | R6 |
|---------------|-------|-------|----------|-------|-------|-------|-------|
| Shares | | Sold | Not Sold | | | | |
| 1 year | 621 | 303 | 203 | 102 | 142 | 116 | 91 |
| 3 years | 879 | 630 | 630 | 321 | 442 | 386 | 286 |
| 5 years | 1,156 | 1,082 | 1,082 | 557 | 765 | 676 | 497 |
| 10 years | 1,946 | 2,144 | 2,144 | 1,235 | 1,679 | 1,502 | 1,107 |

PORTFOLIO TURNOVER

The fund pays transaction costs, such as commissions, when it buys and sells securities (or “turns over” its portfolio). A higher portfolio turnover rate may indicate higher transaction costs and may result in higher taxes when fund shares are held in a taxable account. These costs, which are not reflected in annual fund operating expenses or in the example, affect the fund’s performance. During its most recent fiscal year, the fund’s portfolio turnover rate was 25% of the average value of its portfolio.

PRINCIPAL INVESTMENT STRATEGIES

Under normal circumstances, the fund invests at least 80% of its assets in equity securities of small-capitalization U.S. companies. The fund primarily invests in common stock and preferred stock of U.S. small-capitalization companies. Small-capitalization companies are those with a market capitalization at the time of purchase of less than \$5 billion or otherwise within the range of capitalizations of companies in the Russell 2000 Index, the S&P SmallCap 600 Index, or the Dow Jones U.S. Small-Cap Total Stock Market Index. Capitalization ranges will change over time. The fund may invest in any economic sector, and at times may emphasize one or more particular sectors.

The fund also may invest in: (a) securities of foreign issuers, including foreign issuers located in emerging markets, either directly through investments in foreign currency-denominated securities traded outside of the U.S. or indirectly through depositary receipts; (b) real estate investment trusts (REITs); (c) initial public offerings (IPOs); and (d) master limited partnerships (MLPs).

The manager utilizes fundamental research and bottom-up stock selection to identify undervalued small cap companies with sustainable earnings growth, and whose management is focused on enhancing value for shareholders. The manager seeks to hold securities for the long term. The manager focuses on quality small-cap companies with sound management and long-term sustainable growth, regardless of style. In selecting companies, the manager looks for firms with the following key attributes:

- Experienced, tenured, high-quality management
- Business models that deliver consistent long-term growth
- Leading companies in attractive and defensible niche markets
- Strong financial characteristics; and
- Appropriate valuation.

Various factors may lead the manager to consider selling a particular security, such as a significant change in the relevant company’s senior management or its products, deterioration in its fundamental characteristics, if the company has corporate governance issues, or if the manager believes that the security has become overvalued.

PRINCIPAL RISKS

An investment in the fund is not a bank deposit and is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. Many factors affect performance, and fund shares will fluctuate in price, meaning you could lose money. The fund’s investment strategy may not produce the intended results.

During periods of heightened market volatility or reduced liquidity, governments, their agencies, or other regulatory bodies, both within the United States and abroad, may take steps to intervene. These actions, which could include legislative, regulatory, or economic initiatives, might have unforeseeable consequences and could adversely affect the fund’s performance or otherwise constrain the fund’s ability to achieve its investment objective.

The fund’s main risks are listed below in alphabetical order, not in order of importance. *Before investing, be sure to read the additional descriptions of these risks beginning on page 5 of the prospectus.*

Cybersecurity and operational risk. Cybersecurity breaches may allow an unauthorized party to gain access to fund assets, customer data, or proprietary information, or cause a fund or its service providers to suffer data corruption or lose operational functionality. Similar incidents affecting issuers of a fund’s securities may negatively impact performance. Operational risk may arise from human error, error by third parties, communication errors, or technology failures, among other causes.

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Economic and market events risk. Events in the U.S. and global financial markets, including actions taken by the U.S. Federal Reserve or foreign central banks to stimulate or stabilize economic growth, may at times result in unusually high market volatility, which could negatively impact performance. Reduced liquidity in credit and fixed-income markets could adversely affect issuers worldwide. Banks and financial services companies could suffer losses if interest rates rise or economic conditions deteriorate.

Equity securities risk. The price of equity securities may decline due to changes in a company's financial condition or overall market conditions. Growth company securities may fluctuate more in price than other securities because of the greater emphasis on earnings expectations. Securities the manager believes are undervalued may never realize their full potential value, and in certain markets value stocks may underperform the market as a whole.

Foreign securities risk. Less information may be publicly available regarding foreign issuers. Foreign securities may be subject to foreign taxes and may be more volatile than U.S. securities. Currency fluctuations and political and economic developments may adversely impact the value of foreign securities. The risks of investing in foreign securities are magnified in emerging markets. Any depositary receipts are subject to most of the risks associated with investing in foreign securities directly because the value of a depositary receipt is dependent upon the market price of the underlying foreign equity security. Depositary receipts are also subject to liquidity risk.

Initial public offerings risk. IPO share prices are frequently volatile and may significantly impact fund performance.

Liquidity risk. The extent (if at all) to which a security may be sold without negatively impacting its market value may be impaired by reduced market activity or participation, legal restrictions, or other economic and market impediments.

Preferred and convertible securities risk. Preferred stock dividends are payable only if declared by the issuer's board. Preferred stock may be subject to redemption provisions. The market values of convertible securities tend to fall as interest rates rise and rise as interest rates fall. Convertible preferred stock's value can depend heavily upon the underlying common stock's value.

Real estate investment trust risk. REITs, pooled investment vehicles that typically invest in real estate directly or in loans collateralized by real estate, carry risks associated with owning real estate, including the potential for a decline in value due to economic or market conditions.

Real estate securities risk. Securities of companies in the real estate industry carry risks associated with owning real estate, including the potential for a decline in value due to economic or market conditions.

Sector risk. When a fund focuses its investments in certain sectors of the economy, its performance may be driven largely by sector performance and could fluctuate more widely than if the fund were invested more evenly across sectors.

Small and mid-sized company risk. Small and mid-sized companies are generally less established and may be more volatile than larger companies. Small and/or mid-capitalization securities may underperform the market as a whole.

PAST PERFORMANCE

The following information illustrates the variability of the fund's returns and provides some indication of the risks of investing in the fund by showing changes in the fund's performance from year to year and by showing how the fund's average annual returns compared with a broad-based market index. Past performance (before and after taxes) does not indicate future results. All figures assume dividend reinvestment. Performance information is updated daily, monthly, and quarterly and may be obtained at our website, jhinvestments.com, or by calling 800-225-5291 (Class A and Class C), Monday to Thursday, 8:00 A.M.—7:00 P.M., and Friday, 8:00 A.M.—6:00 P.M., Eastern time, or 888-972-8696 (Class I, Class R2, Class R4, and Class R6) between 8:30 A.M. and 5:00 P.M., Eastern time, on most business days.

A note on performance

Prior to September 27, 2014, the fund was managed by subadvisors other than the fund's current subadvisor, GW&K Investment Management, LLC (GW&K) pursuant to a different investment strategy. From September 27, 2014 to September 6, 2019, the fund was managed by Brandywine Global Investment Management, LLC, Dimensional Fund Advisors LP, and GW&K pursuant to a multi-manager investment strategy. Effective on September 6, 2019, GW&K became the fund's sole subadvisor. The performance information presented for periods prior to September 6, 2019, reflects management of the fund consistent with investment strategies in effect during those periods and might have been different if the fund's investments had been managed under its current investment strategies solely by GW&K.

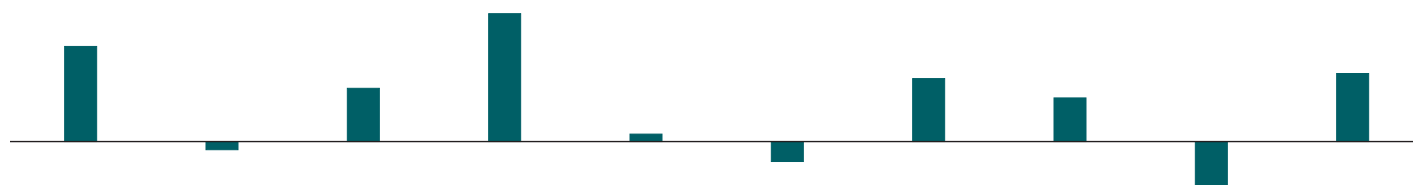
Class NAV shares commenced operations on October 17, 2005. Class A, Class C, Class I, Class R2, Class R4, and Class R6 shares of the fund commenced operations on May 27, 2015. Returns shown prior to a class's commencement date are those of Class NAV shares, except that they include applicable sales charges. Returns for Class A, Class C, Class I, Class R2, Class R4, and Class R6 shares would have been substantially similar to returns of Class NAV shares because each share class is invested in the same portfolio of securities and returns would differ only to the extent that expenses of the classes are different. To the extent expenses of a class would have been higher than expenses of Class NAV shares for the periods shown, performance would have been lower.

Please note that after-tax returns (shown for Class A shares only) reflect the highest individual federal marginal income-tax rate in effect as of the date provided and do not reflect any state or local taxes. Your actual after-tax returns may be different. After-tax returns are not relevant to shares held in an IRA, 401(k), or other tax-advantaged investment plan. After-tax returns for other share classes would vary.

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Calendar year total returns (%)—Class A (sales charges are not reflected in the bar chart and returns would have been lower if they were)

| 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|-------|-------|-------|-------|------|-------|-------|-------|--------|-------|
| 30.15 | -2.59 | 16.88 | 40.54 | 2.36 | -6.33 | 19.96 | 13.83 | -14.41 | 21.57 |



Year-to-date total return. The fund's total return for the nine months ended September 30, 2020, was 2.21%.

Best quarter: Q4 2010, 17.5%

Worst quarter: Q3 2011, -23.12%

Average annual total returns (%)—as of 12/31/19

| | 1 year | 5 year | 10 year |
|--|--------|--------|---------|
| Class A (before tax) | 15.50 | 4.81 | 10.42 |
| after tax on distributions | 14.62 | 2.69 | 8.58 |
| after tax on distributions, with sale | 9.81 | 3.25 | 8.18 |
| Class C | 19.72 | 5.21 | 10.64 |
| Class I | 21.92 | 6.18 | 11.15 |
| Class R2 | 21.66 | 5.99 | 11.05 |
| Class R4 | 21.87 | 6.12 | 11.12 |
| Class R6 | 22.03 | 6.27 | 11.19 |
| Russell 2000 Growth Index (reflects no deduction for fees, expenses, or taxes) | 28.48 | 9.34 | 13.01 |

INVESTMENT MANAGEMENT

Investment advisor John Hancock Investment Management LLC

Subadvisor GW&K Investment Management, LLC (GW&K)

PORTFOLIO MANAGEMENT

Joseph C. Craigen, CFA

Partner and Equity Portfolio Manager

Managed the fund since 2014

Daniel L. Miller, CFA

Partner and Director of Equities

Managed the fund since 2014

PURCHASE AND SALE OF FUND SHARES

The minimum initial investment requirement for Class A and Class C shares is \$1,000 (\$250 for group investments), except that there is no minimum for certain group retirement plans, certain fee-based or wrap accounts, or certain other eligible investment product platforms. The minimum initial investment requirement for Class I shares is \$250,000, except that the fund may waive the minimum for any category of investors at the fund's sole discretion. There are no minimum initial investment requirements for Class R2 or Class R4 shares. The minimum initial investment requirement for Class R6 shares is \$1 million, except that there is no minimum for: qualified and nonqualified plan investors; certain eligible qualifying investment product platforms; Trustees, employees of the advisor or its affiliates, employees of the subadvisor, members of the fund's portfolio management team and the spouses and children (under age 21) of the aforementioned. There are no subsequent minimum investment requirements for any of these share classes.

Class A, Class C, Class I and Class R6 shares may be redeemed on any business day by mail: John Hancock Signature Services, Inc., P.O. Box 219909, Kansas City, MO 64121-9909; or for most account types through our website: jhinvestments.com; or by telephone: 800-225-5291 (Class A and Class C shares); 888-972-8696 (Class I and Class R6 shares). Class R2 and Class R4 shares may be redeemed on any business day by contacting your retirement plan administrator or recordkeeper.

TAXES

The fund's distributions are taxable, and will be taxed as ordinary income and/or capital gains, unless you are investing through a tax-deferred arrangement, such as a 401(k) plan or individual retirement account. Withdrawals from such tax-deferred arrangements may be subject to tax at a later date.

PAYMENTS TO BROKER-DEALERS AND OTHER FINANCIAL INTERMEDIARIES

If you purchase the fund through a broker-dealer or other financial intermediary (such as a bank, registered investment advisor, financial planner, or retirement plan administrator), the fund and its related companies may pay the broker-dealer or other intermediary for the sale of fund shares and related services. These

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payments may create a conflict of interest by influencing the broker-dealer or other intermediary and your salesperson to recommend the fund over another investment. These payments are not applicable to Class R6 shares. Ask your salesperson or visit your financial intermediary's website for more information.

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