

## Prospectus Supplement

**John Hancock Municipal Securities Trust (the Trust)  
John Hancock High Yield Municipal Bond Fund (the fund)**

**Supplement dated June 29, 2023 to the current Summary Prospectus, as may be supplemented (the Summary Prospectus)**

At its meeting held on June 27-29, 2023, the Trust's Board of Trustees approved changes to the fund's investment objective effective as of October 1, 2023 (the Effective Date).

In connection with the change described above, as of the Effective Date, the "Investment objective" in the "Fund summary" section of the Summary Prospectus will be amended and restated in its entirety as follows:

To seek a high level of income that is largely exempt from federal income taxes.

*You should read this supplement in conjunction with the Summary Prospectus and retain it for your future reference.*

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## Summary prospectus

# John Hancock High Yield Municipal Bond Fund

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](http://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](mailto:info@jhinvestments.com). The fund's prospectus and Statement of Additional Information, both dated 10/1/22, as may be supplemented, and most recent financial highlights information included in the shareholder report, dated 5/31/22, are incorporated by reference into this summary prospectus.

## Tickers

A: JHTFX C: JCTFX I: JHYMX R6: JCTRX

## Investment objective

To seek a high level of current income that is largely exempt from federal income tax, consistent with the preservation of capital.

## 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 pay other fees, such as brokerage commissions and other fees to financial intermediaries, which are not reflected in the tables and examples below.** 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 \$100,000 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). More information about these and other discounts is available from your financial professional and on pages 22 to 24 of the prospectus under "Sales charge reductions and waivers" or pages 113 to 117 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	R6
Maximum front-end sales charge (load) on purchases, as a % of purchase price	4.00	None	None	None
Maximum deferred sales charge (load) as a % of purchase or sale price, whichever is less	1.00 (on certain purchases, including those of \$250,000 or more)	1.00	None	None
Small account fee (\$) (for fund account balances under \$1,000)	20	20	None	None

Annual fund operating expenses (%) (expenses that you pay each year as a percentage of the value of your investment)	A	C	I	R6
Management fee	0.55	0.55	0.55	0.55
Distribution and service (Rule 12b-1) fees	0.25	1.00	0.00	0.00
Other expenses	0.16	0.16	0.16	0.13
<b>Total annual fund operating expenses</b>	<b>0.96</b>	<b>1.71</b>	<b>0.71</b>	<b>0.68</b>
Contractual expense reimbursement <sup>1</sup>	-0.19 <sup>2</sup>	-0.19 <sup>2</sup>	-0.09	-0.09
<b>Total annual fund operating expenses after expense reimbursements</b>	<b>0.77</b>	<b>1.52</b>	<b>0.62</b>	<b>0.59</b>

**1** The advisor contractually agrees to reduce its management fee or, if necessary, make payment to the fund in an amount equal to the amount by which expenses of the fund exceed 0.58% of average daily net assets of the fund. For purposes of this agreement, "expenses of the fund" means all fund expenses, excluding (a) taxes, (b) brokerage commissions, (c) interest expense, (d) litigation and indemnification expenses and other extraordinary expenses not incurred in the ordinary course of the fund's business, (e) class-specific expenses, (f) borrowing costs, (g) prime brokerage fees, (h) acquired fund fees and expenses paid indirectly, and (i) short dividend expense. This agreement expires on September 30, 2023, unless renewed by mutual agreement of the advisor and the fund based upon a determination that this is appropriate under the circumstances at that time. The advisor also 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, 2024, 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.

# John Hancock High Yield Municipal Bond Fund

- 2 The distributor contractually agrees to limit its Rule 12b-1 fees for Class A and Class C shares to 0.15% and 0.90%, respectively. This agreement expires on September 30, 2023 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 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	R6	
Shares		Sold	Not Sold		
1 year	475	255	155	63	60
3 years	675	520	520	218	208
5 years	892	910	910	386	370
10 years	1,514	2,004	2,004	874	838

## 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 42% of the average value of its portfolio.

## Principal investment strategies

Under normal market conditions, the fund invests at least 80% of its net assets, plus the amount of any borrowings for investment purposes, in municipal bonds. The fund considers municipal bonds to be comprised of securities the income from which is exempt from regular income tax and includes securities that generate income subject to the alternative minimum tax (AMT). The manager normally invests primarily in medium- and lower-quality municipal securities rated A and below by Moody’s Investors Service, Inc. (Moody’s), S&P Global Ratings (S&P), and Fitch Ratings, Inc. (Fitch), or their unrated equivalents. The fund may buy bonds of any maturity.

However, the fund will not invest more than 5% of its total assets in securities rated lower than B. The fund’s investment policies are based on credit ratings at the time of purchase. Bonds that are rated at or below BB by S&P or Fitch or Ba by Moody’s are considered junk bonds. Municipal bonds may be subject to the AMT and income may not be entirely tax-free to all investors.

The fund may invest heavily in bonds from any given state or region. The fund may engage in derivative transactions to reduce risk and/or enhance investment returns. Derivatives may include futures contracts on debt securities and debt securities indexes; options on futures, debt securities and debt indexes; and inverse floating-rate securities. The fund may also use tender option bond transactions to seek to enhance potential gains. The fund will look through to the underlying municipal bonds held by a tender option bond trust for purposes of the fund’s 80% policy. The fund may leverage its assets through the use of proceeds received as a result of tender option bond transactions. The fund may contribute up to 15% of its holdings in municipal securities to tender option bond transactions.

The manager looks for undervalued bonds, based on both broad and security-specific factors such as issuer creditworthiness, bond structure, and general credit trends, and uses detailed analysis of an appropriate index to model portfolio performance and composition. The fund does not intend to engage in frequent trading.

The fund may invest in general obligation bonds, however, in general, the manager favors bonds backed by revenue from a specific public project or facility, such as a power plant (revenue bonds), which tend to offer higher yields than general obligation bonds. The manager also favors bonds that have limitations on early payoff (call protection), which can help minimize the potential effect of falling interest rates on the fund’s yield.

For liquidity and flexibility, the fund may invest up to 20% of its net assets (plus any borrowings for investment purposes) in taxable and tax-free investment-grade short-term securities.

## 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

## John Hancock High Yield Municipal Bond Fund

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 6 of the prospectus.*

**Changing distribution levels risk.** The fund may cease or reduce the level of its distribution if income or dividends paid from its investments declines.

**Credit and counterparty risk.** The issuer or guarantor of a fixed-income security, the counterparty to an over-the-counter derivatives contract, or a borrower of fund securities may not make timely payments or otherwise honor its obligations. A downgrade or default affecting any of the fund's securities could affect the fund's performance.

**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.

**Fixed-income securities risk.** A rise in interest rates typically causes bond prices to fall. The longer the average maturity or duration of the bonds held by a fund, the more sensitive it will likely be to interest-rate fluctuations. An issuer may not make all interest payments or repay all or any of the principal borrowed. Changes in a security's credit quality may adversely affect fund performance.

**Hedging, derivatives, and other strategic transactions risk.** Hedging, derivatives, and other strategic transactions may increase a fund's volatility and could produce disproportionate losses, potentially more than the fund's principal investment. Risks of these transactions are different from and possibly greater than risks of investing directly in securities and other traditional instruments. Under certain market conditions, derivatives could become harder to value or sell and may become subject to liquidity risk (i.e., the inability to enter into closing transactions). Derivatives and other strategic transactions that the fund intends to utilize include: futures contracts; inverse floating-rate securities; and options. Futures contracts and options generally are subject to counterparty risk. Regulatory changes in derivative markets could impact the cost of or the fund's ability to engage in derivative transactions.

**Liquidity risk.** The extent (if at all) to which a security may be sold or a derivative position closed without negatively impacting its market value may be impaired by reduced market activity or participation, legal restrictions, or other economic and market impediments. Liquidity risk may be magnified in rising interest rate environments due to higher than normal redemption rates. Widespread selling of fixed-income securities to satisfy redemptions during periods of reduced demand may adversely impact their price or salability. The secondary market for certain tax-exempt securities tends to be less well-developed or liquid than many other securities markets, which may result in increased volatility or liquidity risk.

**Lower-rated and high-yield fixed-income securities risk.** Lower-rated and high-yield fixed-income securities (junk bonds) are subject to greater credit quality risk, risk of default, and price volatility than higher-rated fixed-income securities, may be considered speculative, and can be difficult to resell.

**Municipal bond risk.** The prices of municipal bonds, including general obligation bonds, can decline if the issuer's credit quality declines. Revenue bond prices can decline if related projects become unprofitable. An insured municipal bond is subject to the risk that the insurer may be unable to pay claims and is not insured with respect to the market value of the obligation. Municipal bond income could become taxable in the future. Investments in bonds subject to the alternative minimum tax may result in tax liability for shareholders.

**Operational and cybersecurity 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.

**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.

**State/region risk.** Investing heavily in any one state or region increases exposure to losses in that state or region. Factors that may affect performance include economic or political changes, tax base erosion, state constitutional limits on tax increases, budget deficits and other financial difficulties, and changes in credit ratings. Puerto Rican municipal obligations, in which the fund may invest, may be subject to further devaluation due to adverse political, economic, and market conditions.

**Tender option bonds risk.** The fund's participation in tender option bond transactions may increase volatility and/or reduce the fund's returns. Tender option bond transactions create leverage. Leverage magnifies returns, both positive and negative, and risk by magnifying the volatility of returns. An investment in a tender option bond transaction typically involves greater risk than investing in the underlying municipal fixed rate bonds, including the risk of loss of principal.

## Past performance

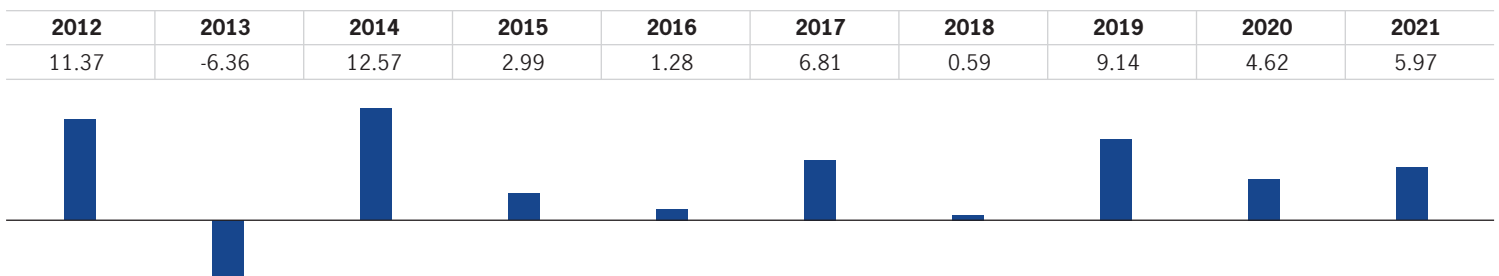
The following information illustrates the variability of the fund's returns and provides some indication of the risks of investing in the fund by showing changes in the fund's performance from year to year and by showing how the fund's average annual returns compared with a broad-based market index. The Bloomberg Municipal Bond Index shows how the fund's performance compares against the returns of similar investments. 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](http://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 and Class R6) between 8:30 A.M. and 5:00 P.M., Eastern time, on most business days.

### A note on performance

Class A shares commenced operations on December 31, 1993. Class I shares commenced operations on February 13, 2017. Class R6 shares commenced operations on August 30, 2017. Returns shown prior to the commencement date of Class I shares and Class R6 shares are those of Class A shares, except that they do not include sales charges and would be lower if they did. Returns for Class I and Class R6 shares would have been substantially similar to returns of Class A 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 A 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. The returns for Class A shares have been adjusted to reflect the reduction in the maximum sales charge from 4.50% to 4.00%, effective February 3, 2014.

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



**Year-to-date total return.** The fund's total return for the six months ended June 30, 2022, was -14.26%.

**Best quarter:** 2014, Q1, 4.38%

**Worst quarter:** 2020, Q1, -6.31%

### Average annual total returns (%)—as of 12/31/21

	1 year	5 year	10 year
Class A (before tax)	1.67	4.53	4.33
after tax on distributions	1.51	4.32	4.18
after tax on distributions, with sale	2.34	6.88	4.09
Class C	4.17	4.60	3.98
Class I	6.12	5.56	4.85
Class R6	6.15	5.57	4.85
Bloomberg High Yield Municipal Bond Index (reflects no deduction for fees, expenses, or taxes)	7.77	7.53	6.72
Bloomberg Municipal Bond Index (reflects no deduction for fees, expenses, or taxes)	1.52	4.17	3.72

## Investment management

**Investment advisor** John Hancock Investment Management LLC

**Subadvisor** Manulife Investment Management (US) LLC

## **Portfolio management**

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The following individuals are jointly and primarily responsible for the day-to-day management of the fund's portfolio.

**Dennis DiCicco**

*Portfolio Manager*

Managed the fund since 2018

**Adam A. Weigold, CFA**

*Senior Managing Director, Senior Portfolio Manager, and Head of the  
Municipal Fixed Income Team*

Managed the fund since 2021

## **Purchase and sale of fund shares**

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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. 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](http://jhinvestments.com); or by telephone: 800-225-5291 (Class A and Class C shares); 888-972-8696 (Class I and Class R6 shares).

## **Taxes**

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The fund intends to distribute tax-exempt income. The fund intends to meet certain federal tax requirements so that distributions of the tax-exempt interest it earns may be treated as exempt-interest dividends. A portion of the fund's distributions may, however, be subject to federal income tax.

## **Payments to broker-dealers and other financial intermediaries**

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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 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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