

Summary Prospectus

BlackRock FundsSM | Investor, Institutional and Class R Shares

- **BlackRock Health Sciences Opportunities Portfolio**

Investor A: SHSAX • Investor C: SHSCX • Institutional: SHSSX • Class R: BHSRX

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 (including amendments and supplements), reports to shareholders and other information about the Fund, including the Fund's statement of additional information, online at <https://www.blackrock.com/prospectus>. You can also get this information at no cost by calling (800) 441-7762 or by sending an e-mail request to prospectus.request@blackrock.com, or from your financial professional. The Fund's prospectus and statement of additional information, both dated September 26, 2025, as amended and supplemented from time to time, are incorporated by reference into (legally made a part of) this Summary Prospectus.

This Summary Prospectus contains information you should know before investing, including information about risks. Please read it before you invest and keep it for future reference.

The Securities and Exchange Commission has not approved or disapproved these securities or passed upon the adequacy of this Summary Prospectus. Any representation to the contrary is a criminal offense.

Not FDIC Insured • May Lose Value • No Bank Guarantee

Summary Prospectus

Key Facts About BlackRock Health Sciences Opportunities Portfolio

Investment Objective

The investment objective of BlackRock Health Sciences Opportunities Portfolio (the “Fund”), a series of BlackRock FundsSM (the “Trust”), is to provide long-term growth of capital.

Fees and Expenses of the Fund

This table describes the fees and expenses that 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 your financial professional or your selected securities dealer, broker, investment adviser, service provider or industry professional (including BlackRock Advisors, LLC (“BlackRock”) and its affiliates) (each, a “Financial Intermediary”), which are not reflected in the table and example below.** You may qualify for sales charge discounts if you and your family invest, or agree to invest in the future, at least \$25,000 in the fund complex advised by BlackRock or its affiliates. More information about these and other discounts is available from your Financial Intermediary and in the “Details About the Share Classes” and the “Intermediary-Defined Sales Charge Waiver Policies” sections on pages 25 and A-1, respectively, of the Fund’s prospectus and in the “Purchase of Shares” section on page II-95 of Part II of the Fund’s Statement of Additional Information.

| Shareholder Fees (fees paid directly from your investment) | Investor A Shares | Investor C Shares | Institutional Shares | Class R Shares |
|---|----------------------|----------------------|-------------------------|-------------------|
| Maximum Sales Charge (Load) Imposed on Purchases (as a percentage of offering price) | 5.25% | None | None | None |
| Maximum Deferred Sales Charge (Load) (as a percentage of offering price or redemption proceeds, whichever is lower) | None ¹ | 1.00% ² | None | None |
| Annual Fund Operating Expenses (expenses that you pay each year as a percentage of the value of your investment) | Investor A Shares | Investor C Shares | Institutional Shares | Class R Shares |
| Management Fee ³ | 0.67% | 0.67% | 0.67% | 0.67% |
| Distribution and/or Service (12b-1) Fees | 0.25% | 1.00% | None | 0.50% |
| Other Expenses | 0.17% | 0.18% | 0.17% | 0.28% |
| Total Annual Fund Operating Expenses | 1.09% | 1.85% | 0.84% | 1.45% |
| Fee Waivers and/or Expense Reimbursements ³ | — | — | — | (0.01)% |
| Total Annual Fund Operating Expenses After Fee Waivers and/or Expense Reimbursements ³ | 1.09% | 1.85% | 0.84% | 1.44% |

¹ A contingent deferred sales charge (“CDSC”) of 1.00% is assessed on certain redemptions of Investor A Shares made within 18 months after purchase where no initial sales charge was paid at the time of purchase as part of an investment of \$1,000,000 or more.

² There is no CDSC on Investor C Shares after one year.

³ As described in the “Management of the Fund” section of the Fund’s prospectus beginning on page 40, BlackRock has contractually agreed to waive the management fee with respect to any portion of the Fund’s assets estimated to be attributable to investments in other equity and fixed-income mutual funds and exchange-traded funds managed by BlackRock or its affiliates that have a contractual management fee, through June 30, 2027. In addition, BlackRock has contractually agreed to waive its management fees by the amount of investment advisory fees the Fund pays to BlackRock indirectly through its investment in money market funds managed by BlackRock or its affiliates, through June 30, 2027. The contractual agreements may be terminated upon 90 days’ notice by a majority of the non-interested trustees of the Trust or by a vote of a majority of the outstanding voting securities of the Fund.

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. The Example assumes that you invest \$10,000 in the Fund for the time periods indicated and then redeem all of your shares at the end of those periods. The Example also assumes that your investment has a 5% return each year and that the Fund’s operating expenses remain the same. Although your actual costs may be higher or lower, based on these assumptions your costs would be:

| | 1 Year | 3 Years | 5 Years | 10 Years |
|----------------------|--------|---------|---------|----------|
| Investor A Shares | \$630 | \$853 | \$1,094 | \$1,784 |
| Investor C Shares | \$288 | \$582 | \$1,001 | \$1,970 |
| Institutional Shares | \$ 86 | \$268 | \$ 466 | \$1,037 |
| Class R Shares | \$147 | \$458 | \$ 791 | \$1,734 |

You would pay the following expenses if you did not redeem your shares:

| | 1 Year | 3 Years | 5 Years | 10 Years |
|-------------------|--------|---------|---------|----------|
| Investor C Shares | \$188 | \$582 | \$1,001 | \$1,970 |

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 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 the most recent fiscal year, the Fund’s portfolio turnover rate was 43% of the average value of its portfolio.

Principal Investment Strategies of the Fund

Under normal market conditions, the Fund invests at least 80% of its total assets in equity securities, primarily common stock, of companies in health sciences and related industries. Investments in derivatives are counted toward the Fund’s 80% policy to the extent that they provide investment exposure to the securities included within that policy or to one of more market risk factors associated with such securities. The health sciences sector can include companies in health care equipment and supplies, health care providers and services, biotechnology, and pharmaceuticals. Health sciences and related industries can include, but are not limited to, businesses involved in the development, production, and distribution or delivery of medical and pharmaceutical products and services, companies engaged in biotechnology and medical research and development, companies that may design, manufacture or distribute medical, dental and optical equipment and supplies, including diagnostic equipment, and companies that may also provide diagnostic services or operate health facilities and hospitals, or provide related administrative, management and financial support. The Fund will concentrate its investments (*i.e.*, invest more than 25% of its assets) in health sciences or related industries, and may invest in companies located in non-U.S. countries.

The Fund reserves the right to invest up to 20% of its total assets in other types of securities. These may include stocks of companies not associated with health sciences.

Principal Risks of Investing in the Fund

Risk is inherent in all investing. The value of your investment in the Fund, as well as the amount of return you receive on your investment, may fluctuate significantly from day to day and over time. You may lose part or all of your investment in the Fund or your investment may not perform as well as other similar investments. The following is a summary description of the principal risks of investing in the Fund. The relative significance of each risk factor below may change over time and you should review each risk factor carefully.

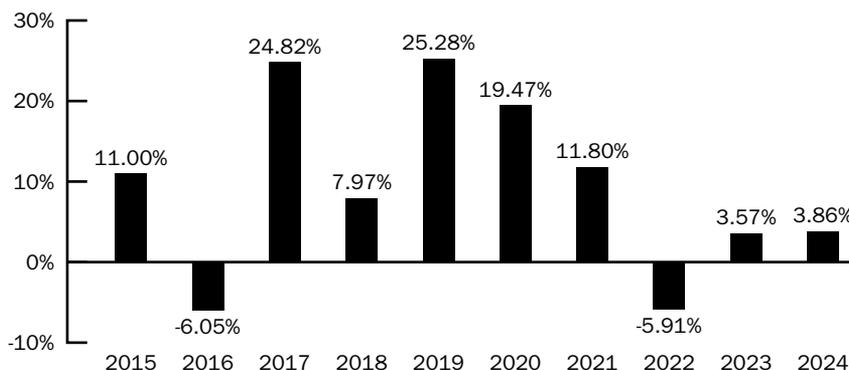
- **Equity Securities Risk** — Stock markets are volatile. The price of equity securities fluctuates based on changes in a company’s financial condition and overall market and economic conditions.
- **Healthcare-Related Securities Risk** — Healthcare companies are strongly affected by worldwide scientific or technological developments. Their products may rapidly become obsolete. Many healthcare companies are also subject to significant government regulation and may be affected by changes in governmental policies.
- **Concentration Risk** — The Fund’s strategy of concentrating in health sciences and related companies means that its performance will be closely tied to the performance of a particular market segment. The Fund’s concentration in these companies may present more risks than if it were broadly diversified over numerous industries and sectors of the economy. A downturn in these companies would have a larger impact on the Fund than on a mutual fund that does not concentrate in such companies. At times, the performance of these companies will lag the performance of other industries or the broader market as a whole.
- **Foreign Securities Risk** — Foreign investments often involve special risks not present in U.S. investments that can increase the chances that the Fund will lose money. These risks include:

- The Fund generally holds its foreign securities and cash in foreign banks and securities depositories, which may be recently organized or new to the foreign custody business and may be subject to only limited or no regulatory oversight.
- Changes in foreign currency exchange rates can affect the value of the Fund's portfolio.
- The economies of certain foreign markets may not compare favorably with the economy of the United States with respect to such issues as growth of gross national product, reinvestment of capital, resources and balance of payments position.
- The governments of certain countries, or the U.S. Government with respect to certain countries, may prohibit or impose substantial restrictions through capital controls and/or sanctions on foreign investments in the capital markets or certain industries in those countries, which may prohibit or restrict the ability to own or transfer currency, securities, derivatives or other assets.
- Many foreign governments do not supervise and regulate stock exchanges, brokers and the sale of securities to the same extent as does the United States and may not have laws to protect investors that are comparable to U.S. securities laws.
- Settlement and clearance procedures in certain foreign markets may result in delays in payment for or delivery of securities not typically associated with settlement and clearance of U.S. investments.
- The Fund's claims to recover foreign withholding taxes may not be successful, and if the likelihood of recovery of foreign withholding taxes materially decreases, due to, for example, a change in tax regulation or approach in the foreign country, accruals in the Fund's net asset value for such refunds may be written down partially or in full, which will adversely affect the Fund's net asset value.
- **Geographic Concentration Risk** — From time to time the Fund may invest a substantial amount of its assets in issuers located in a single country or a limited number of countries. If the Fund concentrates its investments in this manner, it assumes the risk that economic, political and social conditions in those countries will have a significant impact on its investment performance. The Fund's investment performance may also be more volatile if it concentrates its investments in certain countries, especially emerging market countries.
- **Investment Style Risk** — Under certain market conditions, growth investments have performed better during the later stages of economic expansion. Therefore, this investment style may over time go in and out of favor. At times when the investment style used by the Fund is out of favor, the Fund may underperform other equity funds that use different investment styles.
- **Market Risk and Selection Risk** — Market risk is the risk that one or more markets in which the Fund invests will go down in value, including the possibility that the markets will go down sharply and unpredictably. The value of a security or other asset may decline due to changes in general market conditions, economic trends or events that are not specifically related to the issuer of the security or other asset, or factors that affect a particular issuer or issuers, exchange, country, group of countries, region, market, industry, group of industries, sector or asset class. Local, regional or global events such as war, acts of terrorism, the spread of infectious illness or other public health issues like pandemics or epidemics, recessions, or other events could have a significant impact on the Fund and its investments. Selection risk is the risk that the securities selected by Fund management will underperform the markets, the relevant indices or the securities selected by other funds with similar investment objectives and investment strategies. This means you may lose money.
- **Mid Cap Securities Risk** — The securities of mid cap companies generally trade in lower volumes and are generally subject to greater and less predictable price changes than the securities of larger capitalization companies.
- **Operational and Technology Risks** — The Fund is directly and indirectly susceptible to operational and technology risks, including those related to human errors, processing errors, communication errors, systems failures, cybersecurity incidents, and the use of artificial intelligence and machine learning ("AI"), which may result in losses for the Fund and its shareholders or may impair the Fund's operations. While the Fund's service providers are required to have appropriate operational, information security and cybersecurity risk management policies and procedures, their methods of risk management may differ from those of the Fund. Operational and technology risks for the issuers in which the Fund invests could also result in material adverse consequences for such issuers and may cause the Fund's investments in such issuers to lose value.
- **Risk of Investing in the United States** — Certain changes in the U.S. economy, such as when the U.S. economy weakens or when its financial markets decline, may have an adverse effect on the securities to which the Fund has exposure.
- **Small Cap Securities Risk** — Small cap companies may have limited product lines or markets. They may be less financially secure than larger, more established companies. They may depend on a more limited management group than larger capitalized companies.

Performance Information

The information shows you how the Fund's performance has varied year by year and provides some indication of the risks of investing in the Fund. The table compares the Fund's performance to that of the Russell 3000® Index and the Russell 3000® Health Care Index. The Russell 3000® Health Care Index is relevant to the Fund because it has characteristics similar to the Fund's investment strategy. To the extent that dividends and distributions have been paid by the Fund, the performance information for the Fund in the chart and table assumes reinvestment of the dividends and distributions. As with all such investments, past performance (before and after taxes) is not an indication of future results. Sales charges are not reflected in the bar chart. If they were, returns would be less than those shown. However, the table includes all applicable fees and sales charges. If BlackRock and its affiliates had not waived or reimbursed certain Fund expenses during these periods, the Fund's returns would have been lower. Updated information on the Fund's performance, including its current net asset value, can be obtained by visiting www.blackrock.com or can be obtained by phone at (800) 882-0052.

Investor A Shares
ANNUAL TOTAL RETURNS
BlackRock Health Sciences Opportunities Portfolio
As of 12/31



During the ten-year period shown in the bar chart, the highest return for a quarter was 17.47% (quarter ended June 30, 2020) and the lowest return for a quarter was -11.53% (quarter ended March 31, 2020). The year-to-date return as of June 30, 2025 was (1.14)%.

For the periods ended 12/31/24
Average Annual Total Returns

| | 1 Year | 5 Years | 10 Years |
|---|---------------|----------------|-----------------|
| BlackRock Health Sciences Opportunities Portfolio — Investor A Shares | | | |
| Return Before Taxes | (1.60)% | 5.07% | 8.47% |
| Return After Taxes on Distributions | (3.52)% | 3.42% | 6.80% |
| Return After Taxes on Distributions and Sale of Fund Shares | 0.54% | 3.87% | 6.52% |
| BlackRock Health Sciences Opportunities Portfolio — Investor C Shares | | | |
| Return Before Taxes | 2.13% | 5.42% | 8.42% |
| BlackRock Health Sciences Opportunities Portfolio — Institutional Shares | | | |
| Return Before Taxes | 4.12% | 6.48% | 9.35% |
| BlackRock Health Sciences Opportunities Portfolio — Class R Shares | | | |
| Return Before Taxes | 3.48% | 5.83% | 8.69% |
| Russell 3000® Index (Reflects no deduction for fees, expenses or taxes) | | | |
| | 23.81% | 13.86% | 12.55% |
| Russell 3000® Health Care Index (Reflects no deduction for fees, expenses or taxes) | | | |
| | 3.48% | 7.18% | 8.81% |

After-tax returns are calculated using the historical highest individual federal marginal income tax rates and do not reflect the impact of state and local taxes. Actual after-tax returns depend on the investor's tax situation and may differ from those shown, and the after-tax returns shown are not relevant to investors who hold their shares through tax-deferred arrangements, such as 401(k) plans or individual retirement accounts. After-tax returns are shown for Investor A Shares only, and the after-tax returns for Investor C, Institutional and Class R Shares will vary.

Investment Manager

The Fund's investment manager is BlackRock Advisors, LLC (previously defined as "BlackRock").

Portfolio Managers

| Portfolio Manager | Portfolio Manager of the Fund Since | Title |
|-------------------|-------------------------------------|--------------------------------------|
| Erin Xie, PhD | 2003 | Managing Director of BlackRock, Inc. |
| Xiang Liu, PhD | 2020 | Managing Director of BlackRock, Inc. |

Purchase and Sale of Fund Shares

You may purchase or redeem shares of the Fund each day the New York Stock Exchange is open. To purchase or sell shares you should contact your Financial Intermediary, or, if you hold your shares through the Fund, you should contact the Fund by phone at (800) 441-7762, by mail (c/o BlackRock Funds, P.O. Box 534429, Pittsburgh, Pennsylvania 15253-4429), or by the Internet at www.blackrock.com. The Fund's initial and subsequent investment minimums generally are as follows, although the Fund may reduce or waive the minimums in some cases:

| | Investor A and Investor C Shares | Institutional Shares | Class R Shares |
|-----------------------------------|---|--|--------------------------------|
| Minimum Initial Investment | <p>\$1,000 for all accounts except:</p> <ul style="list-style-type: none"> • \$50, if establishing an Automatic Investment Plan. • There is no investment minimum for employer-sponsored retirement plans (not including SEP IRAs, SIMPLE IRAs or SARSEPs). • There is no investment minimum for certain fee-based programs. | <p>There is no minimum initial investment for:</p> <ul style="list-style-type: none"> • Employer-sponsored retirement plans (not including SEP IRAs, SIMPLE IRAs or SARSEPs), state sponsored 529 college savings plans, collective trust funds, investment companies or other pooled investment vehicles, unaffiliated thrifts and unaffiliated banks and trust companies, each of which may purchase shares of the Fund through a Financial Intermediary that has entered into an agreement with the Fund's distributor to purchase such shares. • Clients of Financial Intermediaries that: (i) charge such clients a fee for advisory, investment consulting, or similar services or (ii) have entered into an agreement with the Fund's distributor to offer Institutional Shares through a no-load program or investment platform. • Clients investing through a self-directed IRA brokerage account program sponsored by a retirement plan record-keeper, provided that such program offers only mutual fund options and that the program maintains an account with the Fund on an omnibus basis. <p>\$2 million for individuals and "Institutional Investors," which include, but are not limited to, endowments, foundations, family offices, local, city, and state governmental institutions, corporations and insurance</p> | <p>\$100 for all accounts.</p> |

| | Investor A and Investor C Shares | Institutional Shares | Class R Shares |
|---|---|--|------------------------|
| Minimum Initial Investment (continued) | | company separate accounts who may purchase shares of the Fund through a Financial Intermediary that has entered into an agreement with the Fund's distributor to purchase such shares. \$1,000 for: <ul style="list-style-type: none"> • Clients investing through Financial Intermediaries that offer such shares on a platform that charges a transaction based sales commission outside of the Fund. • Tax-qualified accounts for insurance agents that are registered representatives of an insurance company's broker-dealer that has entered into an agreement with the Fund's distributor to offer Institutional Shares, and the family members of such persons. | |
| Minimum Additional Investment | \$50 for all accounts (with the exception of certain employer-sponsored retirement plans which may have a lower minimum). | No subsequent minimum. | No subsequent minimum. |

Tax Information

The Fund's dividends and distributions may be subject to U.S. federal income taxes and may be taxed as ordinary income or capital gains, unless you are a tax-exempt investor or are investing through a qualified tax-exempt plan described in section 401(a) of the Internal Revenue Code of 1986, as amended, in which case you may be subject to U.S. federal income tax when distributions are received from such tax-deferred arrangements.

Payments to Broker/Dealers and Other Financial Intermediaries

If you purchase shares of the Fund through a Financial Intermediary, the Fund and BlackRock Investments, LLC, the Fund's distributor, or its affiliates may pay the Financial Intermediary for the sale of Fund shares and related services.

These payments may create a conflict of interest by influencing the Financial Intermediary and your individual financial professional to recommend the Fund over another investment.

Ask your individual financial professional or visit your Financial Intermediary's website for more information.

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