
Charles River Laboratories NHP Report

March 2025

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A Letter from Martin Mackay, Ph.D.,

Chair of the Responsible Animal Use Committee of the
Charles River Laboratories International, Inc. Board of Directors

Two years ago, Charles River Laboratories made a commitment to shareholders to publish an annual report describing the efforts we take to reinforce confidence that the non-human primates we import are sourced appropriately. The inaugural version was published in March 2024, and, as the Chair of the Responsible Animal Use Committee of the Board of Directors, I am pleased to share our second annual report of the Company on this topic.

As a leading non-clinical drug development partner, Charles River has a significant impact on the global pharmaceutical and biotechnology industry by supporting the research of over 80% of the drugs approved by the U.S. Food and Drug Administration in the last five years. We passionately pursue our mission of helping clients bring innovative life-saving and life-changing treatments to patients worldwide as quickly, safely and responsibly as possible.

In operation for over 75 years, Charles River has taken and continues to take all of its responsibilities surrounding this mission seriously, including animal welfare and compliance with applicable laws and regulations. Throughout our history, we have been a market leader in creating the industry standards for biomedical-research quality, animal welfare, and ethics. Our extensive history of investing in and embracing the components of the 3Rs (Replacement, Reduction, and Refinement) has sharpened our aim to advance science guided and driven by a foundationally important lens of responsibility on everything we do, driving progress for patients and animals that depend on our work.

This report provides an overview of the processes, procedures and practices in place to ensure we are meeting our responsibilities and are properly managing related risks. As in the past, we have carefully assembled the content of this report with an eye to information that we believe is important to our various constituencies, but most importantly our shareholders, with whom we have engaged in extensive outreach to assess what disclosures would be most valuable.

We are proud to share with you the ways we have historically demonstrated our long-standing commitment to animal welfare, as well as some of the more recent initiatives we have implemented and our vision for the future. We will continue to invest, innovate and work to supplement these processes, procedures and practices and develop new ways to meet the high standards required of our mission.

Sincerely,
Martin

Background

At each of the prior two Annual Meetings of Shareholders of the Company, the Company's shareholders overwhelmingly agreed with management on focusing this Report on our overall NHP sourcing process (including how we assess legally-sourced status).

We are now pleased to share our 2025 report which, influenced by shareholder feedback, is separated into the following sections:

- Overall views on the utilization and need for NHPs
- Enhanced Safeguards consisting of:
 - Genetic Testing
 - NHP Supplier Risk Management Process (including Monitoring and Auditing)
- Increased Disclosure
- Diversification of Supply Chain
- NHP Transportation Regulations Review
- New Approach Methods (NAMs)
- Statement on Zoonosis
- Overview of CITES
- Internal Governance Structures
- Conclusion

Charles River's Position on Sourcing of NHPs and the Ongoing Importance of NHPs

Charles River Laboratories is and will always be steadfastly opposed to the illegal exportation or importation of NHPs. In furtherance of that objective, we are committed to dedicating our resources to collaborate with the applicable governments and our industry partners to maintain our current practices and develop and implement additional policies, processes, and procedures, as needed, while also ensuring we provide a safe and secure NHP supply chain most suitable for biopharmaceutical research.

Our compliance with applicable laws, regulations and global standards aids us in fulfilling our valuable mission - helping clients bring innovative, life-saving and life-changing treatments to patients worldwide as quickly, safely and responsibly as possible. Our Company, and to a large extent, the entire biopharmaceutical industry, relies on access to, transportation of, and safe and humane handling of NHPs in biomedical research facilities to fulfill the mission of putting medicines, therapies, and vaccines in the hands of patients and providers.

The use of NHPs is fundamental to this work and to foundational scientific research and understanding on how to prevent and treat emerging infectious diseases, including the successful development of every COVID-19 vaccine and the work of major academic medical centers. NHPs are also necessary for the development of the thousands of drug products currently in preclinical development - including for cancer, diabetes, neurologic and myriad other rare diseases.

Before a drug can be evaluated in a clinic on humans, the FDA generally requires testing in two animal species, including one non-rodent species, to ensure drug efficacy and patient safety. Because of their close genetic, physiological, and behavioral similarity to humans, NHPs are often the only relevant animal models for critical translational research.

For most of our lifetimes, medicines have come in the form of small molecules. Created through chemical synthesis, these drugs are usually of a low molecular weight, well characterized and are relatively simple to produce. Recently, new types of therapies have broken down prior barriers, creating new hope for patients where none existed before. Biologics are large, complex, and difficult to characterize molecules created through multistep biologic processes. They can be vaccines, cells, antibodies, proteins, blood, or tissues. Sometimes they are less of a "drug", but a therapeutic process, such as teaching the body to attack its own cancer by reprogramming the immune cells outside of the patient's body such as with CAR-T therapy or delivering a functional replacement for a non-functioning gene with gene therapies.

These new treatments for cancer, autoimmune disease, heart disease, infectious disease, post-transplant organ rejection, and genetic disorders depend upon animals closely related to or the same species as the species intended to benefit from the new biologic therapy. Biologic therapies have high specificity for a species-specific target. Therefore, it is only currently possible to assess the safety and efficacy for biologics intended for human patients in other (non-human) primates.

We support efforts by global legislative and regulatory authorities and the research community to replace, reduce, and refine the use of animals in drug development, and to create new technologies to eliminate the use of animals all together. This is why Charles River continues to engage in our Alternative Methods Advancement Project (AMAP) bringing together our research, development, investment, and partnership efforts to purposefully strive and invest in artificial intelligence (AI) and new digital technologies, new products, and new in vitro and in silico methods, with a goal of reducing and replacing the number of animals used in biomedical research.

The industry and regulators consider the use of novel, alternate technologies to be applicable for early decision making in discovery but agree that scaled adoption in regulated human safety risk assessment is many years away. Therefore, in addition to continuing to approve alternatives, we must also continue to develop and invest in robust and effective policies, processes and procedures to ensure that how we work with animals in general, including NHPs, is not only compliant with applicable laws, regulations, and standards but is responsible, humane, and in keeping with our longstanding commitment to the 3Rs.

In support of these collective aims, Charles River has both enhanced existing procedures and implemented new procedures.

Enhanced safeguards to ensure proper sourcing

Over the past few years, international developments have called certain aspects of the global NHP supply chain into question. In response to this and shareholder concerns, Charles River has implemented practices above and beyond what is required by applicable laws, including practices to ensure we can continue to support our clients' vital need for NHPs in research while also ensuring we provide a safe and secure legally sourced supply chain.

Charles River continues to focus on diversifying our supply chain and finding more ways to effectively utilize our global infrastructure, while concurrently working to develop and implement enhanced safeguards to ensure stronger sourcing in compliance with applicable laws, innovate for the future, and continue to provide increased disclosures of practices and some data (including the continued publication of this report).

Genetic Testing

For over two years, Charles River has been engaging with subject matter experts in NHP population genetics to advise on the most optimal approach to identifying parent-offspring linkage, commonly referred to as "genetic testing." The expert consultants include representatives from the National Primate Centers and forensically accredited academic centers, as well as a world leading genomics center.

Charles River evaluated three distinct technologies to support parentage testing for purpose-bred NHPs. The testing methods were evaluated using a sample set of known breeders and offspring sourced under controlled conditions from a Charles River facility. The samples were anonymized and only the unique animal identifiers and date of birth information were provided.

As a result of this research, Charles River utilizes a routinely adopted genetic testing method that, in a pilot study run by Charles River, accurately identified parent-offspring linkage in 100% of samples with confidence levels of 100%. In addition to extraordinary reliability, this method is also the most cost-efficient of the evaluated methodologies, which we anticipate would optimize resource use and further facilitate bringing NHP parentage testing to scale. We began to implement this testing program at our Mauritius NHP site during 2025 and intend to continue this process at other sites in 2025. We anticipate providing further updates on the progress of the implementation of this testing program in future reports.

NHP Supplier Risk Management Process – Enhanced Monitoring and Auditing Processes

While extraordinarily helpful toward ensuring confidence in the purpose-bred status of NHPs, genetic testing methods will take time, resources and international regulatory and supplier cooperation to fully implement at scale. While working through the lengthy commercial and regulatory adoption

process, Charles River has begun to implement a new industry-leading safeguard - enhanced monitoring and auditing processes that are already a part of our dedicated *NHP Supplier Risk Management Process*.

Starting in 2024, Charles River further increased our focus on mitigating risk and ensuring compliance through the adoption of an enhanced, cross-functional *NHP Supplier Risk Management Process*. This new process applies not only to NHP suppliers but also to other suppliers involved in the Company's procurement and delivery of NHPs, and augments our standard supplier risk management process. The *NHP Supplier Risk Management Process* more formally brings together internal stakeholders across Charles River to identify and mitigate risks within the NHP supply chain, with defined governance and documented processes, procedures and practices designed to ensure that we partner with trustworthy and ethical suppliers of NHPs.

The enhanced and improved *NHP Supplier Risk Management Process* vests oversight with an executive-level NHP Supplier Governance Council. Among its principal responsibilities, the NHP Supplier Governance Council approves NHP suppliers and reviews any issues or requested exceptions to the *NHP Supplier Risk Management Process*. At the time of this report, members represented on the NHP Supplier Governance Council include our:

- Chief Operating Officer
- Head of Discovery & Safety Assessment
- Chief Financial Officer
- General Counsel & Chief Compliance Officer

On an ongoing basis, an NHP Supplier Risk Management Working Group executes the *NHP Supplier Risk Management Process*, advises the NHP Supplier Governance Council and makes recommendations as needed. At the time of this report, stakeholders involved with, or represented on, the NHP Supplier Risk Management Working Group includes senior leaders from:

- Finance
- Legal
- Legal Compliance
- NHP Operations
- Strategic Programs
- Procurement



Starting in 2024, Charles River further increased our focus on mitigating risk and ensuring compliance through the adoption of an enhanced, cross-functional NHP Supplier Risk Management Process.”

Aligned to a risk-based matrix, this *NHP Supplier Risk Management Process* applies to the following types of participants in the supply chain:

- NHP farms, resellers and quarantine providers
- NHP brokers and consultants
- NHP transportation and logistics providers (air, ground, other)
- NHP customs brokers and freight forwarders
- NHP matrix providers
- Other third parties involved with NHP sourcing or delivery (e.g., veterinarians)

The *NHP Supplier Risk Management Process* applies to both new and existing NHP Suppliers, and includes enhanced controls, monitoring and auditing across the entire NHP supplier lifecycle, including during:

- Identification and sourcing of NHP suppliers
- NHP supplier due diligence
- Review and approval of NHP suppliers
- Contracting with NHP suppliers
- Adverse events involving NHP suppliers
- Payment, renewal and termination of NHP supplier contracts
- Training and awareness

As a part of these enhanced monitoring and audit processes, and consistent with our *NHP Supplier Risk Management Process*, all NHP Suppliers are subject to enhanced due diligence, documentation, monitoring and auditing across three separate functions of the business – NHP Operations, Legal Compliance and Procurement. The table below illustrates potential areas of review for our multi-layered, risk-based approach that for in-scope NHP suppliers, depending on their particular function and risk profile:

NHP Operations	Legal Compliance	Procurement
<ul style="list-style-type: none"> • Business Overview • Permits & Licenses • Inventory (including requirements of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), production statistics, breeder inventory, stock / commercial stock count) • Infrastructure (including Environment, Health, Safety and Sustainability, site / personnel security, facilities, staff) • Animal Care (including animal care and recordkeeping) • Import, Export and Transportation (including import documentation, farm packing / loading, feed and water, offloading, vehicle inspection, duties) 	<ul style="list-style-type: none"> • Compliance Screening (including adverse media, sanctions / watchlists and Politically Exposed Persons (PEP) lists) • Compliance Questionnaire (including business information, financial information, government interaction, compliance with laws, trade compliance, conflicts of interest, compliance certification) • Compliance Due Diligence Report (including legal / regulatory violations, operational risks, compliance, ethics, sustainability and governance risks, and reputational risks) 	<ul style="list-style-type: none"> • Denied parties and debarment screening • Adverse media and litigation monitoring • Financials (including financial stability scoring)

For each NHP Supplier, the *NHP Supplier Risk Management Process* will be repeated in full at least every three (3) years or more frequently based on identified risks and other factors. In addition, the *NHP Supplier Risk Management Process* is used to identify opportunities for improvement among NHP suppliers and incentivize action by suppliers to address those improvement opportunities.

Collectively, these measures represent a broad-based, multi-layered, cross-functional approach that includes genetic testing to more certainly confirm parentage (where available), and more frequent supplier visits with enhanced audit procedures. In addition to these measures, Charles River has also agreed to share additional information and data regarding our work with NHPs.

During 2024, the NHP Supplier Governance Council convened for 13 meetings to discuss and advise on NHP supplier matters. In alignment with the Company's *NHP Supplier Risk Management Business Operating Procedures*, the NHP Supplier Governance Council also reviewed and approved ongoing business with multiple NHP suppliers.

Increased Disclosure

In talking to our shareholders (and other constituencies) it has become clear that it is important for us to promote greater transparency and disclosure around our NHP supply practices and usage. Accordingly, we have already begun to increase the amount of disclosure provided in several areas.

Examples include:

- This comprehensive second annual report on NHP supply to shareholders
- Continued financial and supply data on NHPs provided annually during earnings results calls and presentations

Safety Assessment Study NHPs

	2021	2022	2023	2024
Charles River Global NHP Usage	13,654	15,272	10,874	11,006

Diversification of NHP Supply Chain

Charles River maintains a diverse and secure NHP supply chain through various supplier relationships. Most significantly, we recently acquired a 90% controlling interest in Noveprim, a highly-regarded NHP supplier in Mauritius. The investment in Noveprim carries benefits beyond simply the supply chain, giving us operational control and direct insight into animal welfare and greater ability to monitor to ensure NHPs are sourced in accordance with applicable laws.

Additionally, we commit to annually disclose when a country of origin exceeds 30% of our globally sourced NHPs for use in our Safety Assessment business. In 2024, only Mauritius exceeded the 30% threshold (with approximately half of CRL NHPs globally sourced). Other countries from which we import NHPs but that did not meet the 30% threshold in 2024 include, but are not limited to, Cambodia and Vietnam. The respective NHPs sourced from each country of origin will fluctuate annually based on the timing of shipments, age of the model colonies, and other factors

NHP Transportation Regulations Review

During 2024, Charles River engaged an international law firm to conduct a detailed review, and to provide a comprehensive summary, of applicable laws, orders, rules, regulations and permit requirements governing the export, transportation and importation of NHPs, with a focus on laws relating to animal welfare. This project also included review of two international regimes – the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) and the International Air Transport Association (IATA) – and their applicability to domestic regulatory structures. Charles River will leverage the output of this review to identify opportunities for improvement in its NHP transportation process.

New Approach Methods (NAMs) – Investing in Alternatives

While the scientific community recognizes the indispensable need for NHPs for biopharmaceutical discovery and development, Charles River shares a vision with many others for finding new and innovative ways to reduce the numbers of animals used in medical research. We are actively innovating toward a future where our industry becomes less reliant on NHPs to discover and develop new medicines and treatments through the pursuit of alternative technology.

Charles River’s initiative, the Alternative Methods Advancement Project (AMAP), brings together our research, development, investment, and partnership efforts in this exciting area of development. AMAP is the centerpiece of fulfilling the company’s commitment to the 3Rs - the Replacement of animal models, Reduction of the use of animal models, and the Refinement of procedures to reduce impact on animals, all through an overall lens of responsibility as the industry leader in shaping the future of safe and effective medicines and treatments.

Charles River has invested millions in alternatives, primarily through partnerships, strategic acquisitions, and internal investments. Currently, we or our partners are actively developing, investing in, and partnering with companies pursuing new approaches such as:

- AI and Biosimulation
- Digital technologies
- Data, mathematical and computational models (Virtual Control Groups)
- *In Vitro* and *In Silico* methods
- Organ-on-a-chip
- Diagnostic imaging and 3D modeling

Recent developments include:

- Endosafe® Trillium™, a synthetic alternative replacement for limulus amoebocyte lysate (LAL). LAL is derived from the blood of the Atlantic Horseshoe Crab and used in manufacturing quality-control testing products to detect endotoxins.
- A next-generation sequencing (NGS) service, in partnership with PathoQuest S.A.S., that provides superior detection of viral contaminants in biologics compared to animal testing.
- PathogenBinder™, a novel testing method for detecting pathogens without the use of a sentinel animal, reducing the need for approximately one million research models annually.
- Logica®, a collaborative offering with Valo Health, in which Charles River clients can experience the benefits of AI-augmented small molecule discovery and design leading to de-risked preclinical candidates via accelerated programs. The predictive models used during a Logica program offer the potential for fewer iterative design cycles and fewer sub-quality molecules being assessed in animal models, thus reducing the need for animal models in these cases.

- The Retrogenix® Platform, a first-in-class non-human protein library, helps biopharmaceutical clients assess off-target binding to a non-human proteome to de-risk *in vivo* studies and aid in non-human species selection.
- The development of nonclinical Virtual Control Groups (VCG) with Sanofi, which have the potential to unlock a game-changing new design for safety assessment studies.
- A microfluid liver-on-chip model which provides a cutting-edge solution for regulated genotoxicity testing, delivering high accuracy and human-relevant results while reducing the need for animal testing.

Additionally, Charles River uses its voice to support the evaluation and advocacy of regulatory acceptance of alternative models to modify the reliance on NHPs where scientifically appropriate.

On Zoonotic Disease Concerns

In the course of shareholder consultations, we have also determined it useful that we address the issue of zoonotic disease, which are infections potentially spread between people and animals. Charles River takes the health of our research animals, our employees, and the general public very seriously and has numerous safeguards in place to protect them. In the context of biomedical research, these issues are commonly recognized as the alarmist claims of animal rights activists and largely from where these concerns emanate today.

Our facilities are highly regulated and robustly designed to prevent the transmission of any zoonotic disease. Charles River facilities and processes are designed to comply with state, local and federal health and environmental material requirements. All NHPs imported into our quarantine facilities first undergo a quarantine in the country of origin. The pre-export quarantine includes several pathogen screens and a thorough physical exam conducted by veterinarians. In some cases, Charles River veterinarians help to conduct this pre-export screening. NHPs must meet or exceed the health regulations of the exporting country, the importing country and Charles River's contract specifications in order to be eligible for export. Imported animals are then further quarantined in our quarantine facilities as regulated by government agencies and retested to ensure they meet both the government mandates and Charles River's own specifications for pathogens and health of the animals.

In the United States, as described above, every NHP must clear a comprehensive quarantine period in the country of origin. Upon arrival in the US, the NHPs then go through a second, minimum 31-day, quarantine period where they go through additional tests prior to release by the Centers for Disease Control and Prevention (CDC).

In the U.S., quarantine facilities are licensed and permitted by the CDC. Prior to issuing permits, the CDC conducts a thorough and complete inspection of the site and reviews and approves all procedures and processes conducted onsite. After becoming a CDC-approved site, there is a bi-annual permit

renewal process, as well as annual visits to maintain permits. In addition, the CDC can conduct inspections at any time. As confirmed by the CDC¹, no member of the public has ever contracted a zoonotic disease from a CDC regulated quarantine facility, including Charles River facilities.

Our U.S. quarantine sites are inspected by the United States Department of Agriculture (USDA) and the CDC. Since 2021, our U.S. sites have been inspected 12 times by the USDA, and 8 times by the CDC. Our Canadian quarantine sites are inspected by the Canadian Council on Animal Care (CCAC) triennially and by the Canadian Food Inspection Agency (CFIA) with each import.

Besides importing animals into the U.S., Charles River also imports animals to Canada and Europe. In each case we follow the same practices regarding pre-export quarantine in the source country, import into facilities meeting the country's standards and health testing that meets both governmental and Charles River requirements.

CITES Process

The international trade of NHPs is subject to compliance with CITES, a global treaty enacted to ensure international trade in wild animals is legal, traceable, and biologically sustainable. To import or export NHPs from a participating state, a CITES-compliant permit is required to be issued from the exporting country. CITES provides that an export permit is only granted when: (1) the NHP was legally obtained and the export will not be detrimental to the survival of that species; (2) relevant government officials of the exporting state are satisfied that the animal was not obtained in contravention of laws for the protection of fauna; and (3) relevant government officials of the exporting state are satisfied that the animal will be prepared and shipped so as to minimize the risk of injury, damage to health, or cruel treatment.² All Charles River NHP shipments, when required, are conducted pursuant to CITES permits.

Governance

It is clear to us that shareholders are also keenly interested in our internal governance processes around these issues, including Board and management oversight responsibilities and involvement and responsibility in developing, implementing, and complying with our processes and procedures. Over the past few years, we have augmented our previously strong oversight structure as follows:

- In June 2023, we established a new committee of our Board - the Responsible Animal Use Committee (RAUC). The RAUC responsibilities include to:
 - Review, evaluate and advise the Board and Company management regarding the Company's impact on responsible animal utilization.

¹Subbaraman, Nidhi. "How One Texas County is Fighting 43,000 Monkeys." Wall Street Journal, January 2, 2024.

²CITES, <https://cites.org/eng/disc/text.php>

- Review, evaluate and advise the Board and Company management, including as necessary in coordination with the Science & Technology Committee of the Board, regarding the Company's progress in developing, investing in and/or acquiring the scientific and technological resources and expertise required to appropriately reduce the impact of animals in Company operations, including assessing the risks and benefits associated with the underlying methods and technologies.
- Review, evaluate and advise the Board on the Company's efforts to ensure effective governance and oversight of responsible animal utilization practices and operating standards of care to foster the continuous improvement of such practices; and
- Review, evaluate, and make recommendations to the Board and Company management on the Company's internal and external stakeholder messaging (including coordination and dialogue with industry groups and associations) in order to more fully, transparently and accurately convey the Company's commitment to responsible animal utilization, contributions to the research community with respect to alternative and innovative approaches to reduce the impact of animals in research, and implementation of the 3Rs.
- We maintain a long-standing Science & Technology Committee of our Board, which works collaboratively with the RAUC, particularly on reviewing, evaluating and advising on our investments in alternatives.
- As discussed above, we have enhanced our NHP Supplier Risk Management Process by creating a more robust NHP Supplier Risk Management Working Group and new NHP Supplier Governance Council.

These structures, together with our general approach to enterprise risk management, collectively provide comprehensive oversight of all NHP supply related issues relevant to Charles River.

Conclusion

We believe this report provides an in-depth view for shareholders of the extensive processes, procedures, and practices Charles River Laboratories has already implemented and, with respect to our NHP supply chain, is investing in for the future. We take our responsibilities to all stakeholders seriously and strive to fully meet the expectations of all who rely on our Company to perform its vital mission.

We look forward to continuing to engage shareholders and other stakeholders on this topic and the importance of biomedical research in the future so that we can continue to help bring new breakthrough medicines, treatments and vaccines to patients worldwide who need them.

