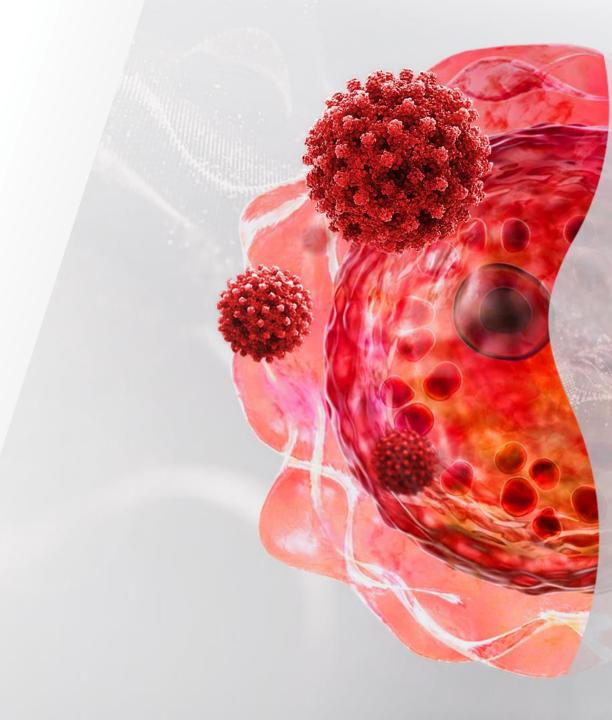


Cell and Gene Therapy - Dutch Life Science Conference

Willem Hoerée – Business Development Manager

December 2023



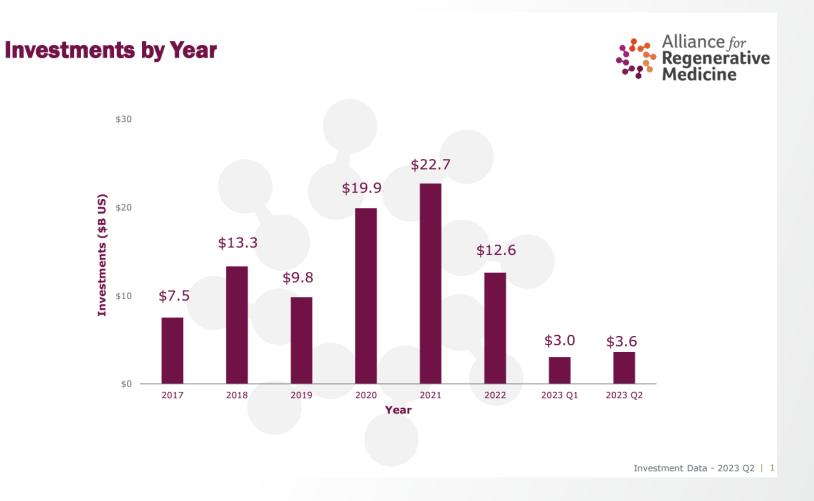


The world leader in serving science

Thermo Fisher SCIENTIFIC Agenda **Cell & Gene Therapy - Investments** Investment data globally and press release **Thermo Fisher Scientific supports cell** 묢 and gene therapy development Our total products and services capabilities and investments

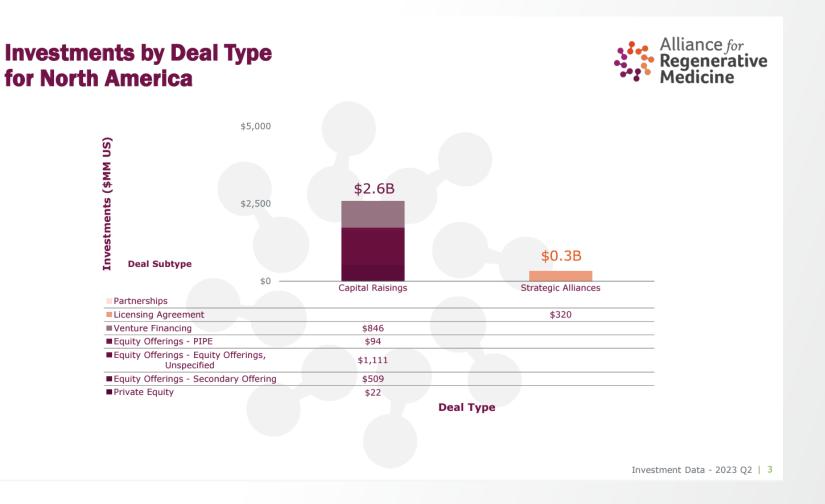


Cell & Gene Therapy - Global Investment Data by Year



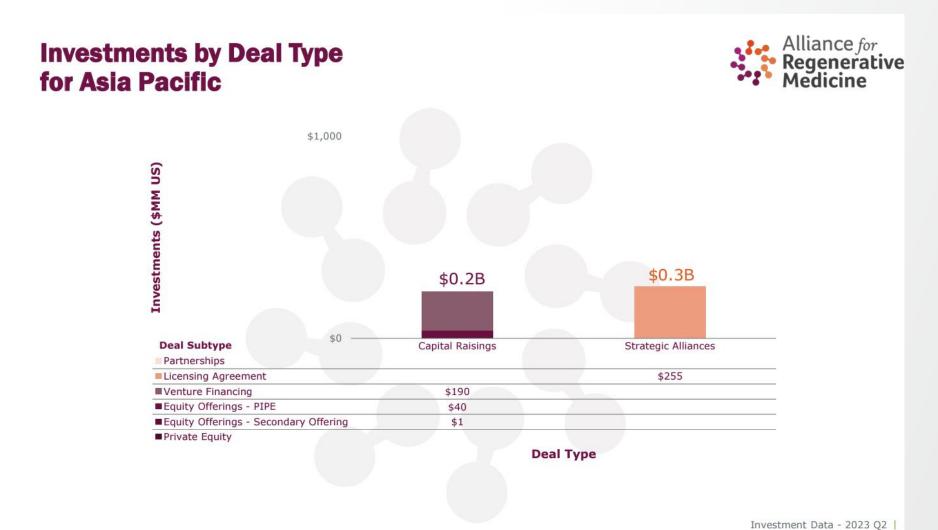


Q2 2023 – Investments by Deal Type – North America



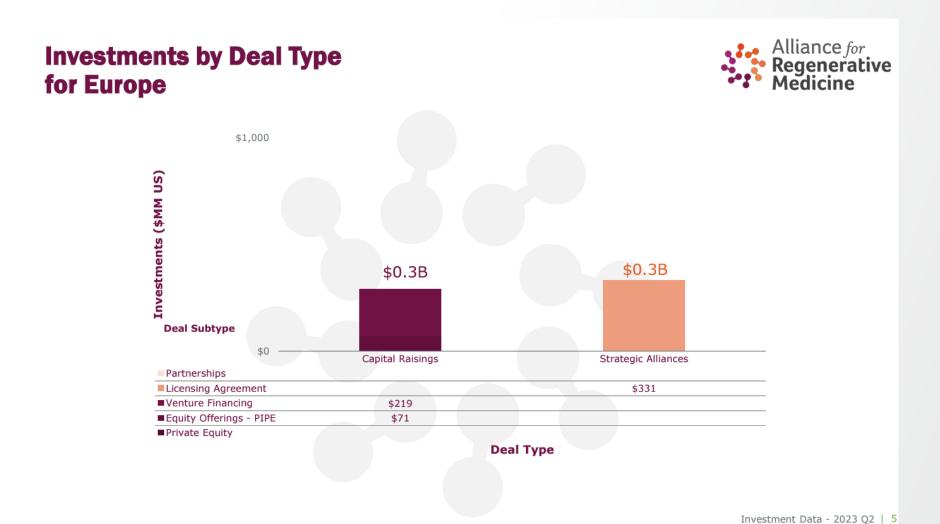


Q2 2023 – Investments by Deal Type – Asia Pacific



Thermo Fisher

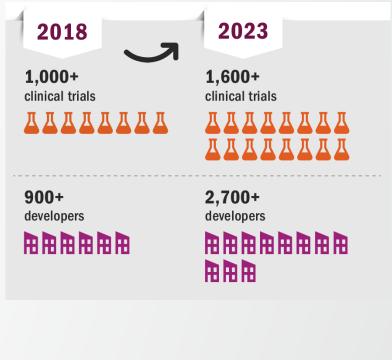
Q2 2023 – Investments by Deal Type – Europe



Q1 2023 Sector Data – Global Picture







Thermo

Novo Nordisk Foundation - Investment Announcement



Dubbed the Cellerator, the facility will cater to public and private clients in academia, biotech and the pharmaceutical industry. Construction is due to kick off next summer, and the site is expected to be operational in 2027, the Novo Nordisk Foundation said in a release.

The group plans to support a range of cell therapy types, including those derived from embryonic stem cells, pluripotent stem cells and adult stem cells. The Cellerator's service offerings will run the gamut from process development and manufacturing to product release and regulatory support.

Thermo Fisher SCIENTIFIC

Mission:

To enable our customers to make the world healthier, cleaner and safer.

Focus on biotech:

We simplify the development path and accelerate your innovations to bring therapies to patients, faster.



>6,500

clinical trials supported annually



>300

large and small molecules manufactured in 2021



78%

customers in **clinical phase** are emerging biotech



>30

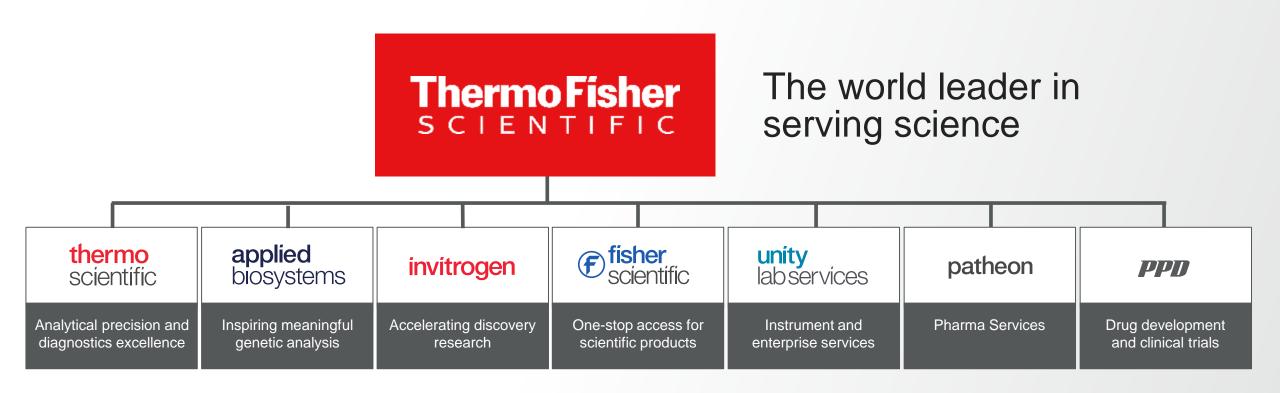
partnerships/sponsorship with Incubators



The world leader in serving science



We offer targeted solutions across our portfolio for the right solutions at the right time



Your trusted partner in advancing cell and gene therapies from discovery to delivery

We help you simplify and accelerate time-to-market by offering trusted, **high-quality products** and services backed by **collaborative support** and our **robust global supply chain** network.









CGMP-quality products

Instruments and CGMP reagents like Gibco™ CTS™ formulations are designed to streamline the transition to commercial manufacturing.

Proven CRO and CDMO services

We are an experienced, full-service CRO and CDMO partner with scale, a broad range of services, and an extensive support network.

Scientific and regulatory support

We provide CRO/CDMO consultations and collaborative technical and regulatory product support, including traceability documentation, drug master files, and regulatory support files.

Robust global supply chain

Connect to a robust global supply chain network with targeted CGMP manufacturing investments.

Thermo Fisher

Meeting the demand for qualified ancillary reagents

Cell Therapy Systems (CTS) reagents for cell and gene therapy manufacturing

Gibco™ CTS™ reagents are CGMP-manufactured products designed for cell and gene therapy applications, so you can transition your therapeutic to the clinic with confidence.

- Over 30 years of CGMP-compliant manufacturing experience
- Extensive safety testing panels and FDA drug master files
- Proven use in FDA-approved cell therapies and >200 clinical trials

CGMP manufacturing

Manufactured in conformance with GMPs for medical devices and 21 CFR Part 820; follow USP<1043> and Ph Eur 5.2.12

Manufacturing sites are FDA registered, ISO 13485 certified, and regularly audited

Testing and documentation

Traceable documentation—drug master files (DMFs) and/or regulatory support files (RSFs) as well as certificates of origin

We perform product safety testing for sterility, endotoxins, and mycoplasmas

Proven use

Used to manufacture FDA-approved and EMA-approved CAR T therapies [1,2] as well as the first FDA-approved therapeutic cancer vaccine [3]

Used in over 200 clinical trials

- 1. Tangying LL et al. (2016) A rapid cell expansion process for production of engineered autologous CAR-T cell therapies. Hum Gene Ther Methods 27(6):209-218.
- 2. http://thermofisher.mediaroom.com/2017-08-30-First-FDA-Approved-Cell-Therapy-for-Leukemia-Utilizes-Thermo-Fisher-Scientifics-CTS-Dynabeads-Technology.
- 3. Madan RA, Gulley JL (2011) Sipuleucel-T: harbinger of a new age of therapeutics for prostate cancer. Expert Rev Vaccines 10(2):141-150.



Product and service offerings for cell and gene therapy

Seamless transition to accelerate development

Leading product solutions



thermo scientific



invitrogen

applied biosystems

unity labservices

gibco



 "Build" approach supported by leading product portfolio of reagents, instruments, consumables, and workflow solutions

Leading CRO and CDMO

PPD



patheon





- "Buy" approach supported by CDMO and CRO operations
- Translational early discovery, process development, clinical manufacturing, and commercial manufacturing

Investing to expand and meet future demands



Industry-leading solutions to support advanced therapies

Critical raw material manufacturing

\$100 million

Investment to boost production of critical products like cell culture media



Gibco[™] Dynabeads[™] beads manufacturing
Vilnius, Lithuania

CDMO drug product manufacturing

>\$3B

Investment in cell and gene therapy manufacturing capabilities since 2019

Global site and facility expansion to support supply of CGT products

CRO capabilities for clinical phase

\$17.4B

Expanded cell and gene therapy clinical services



Thank you

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