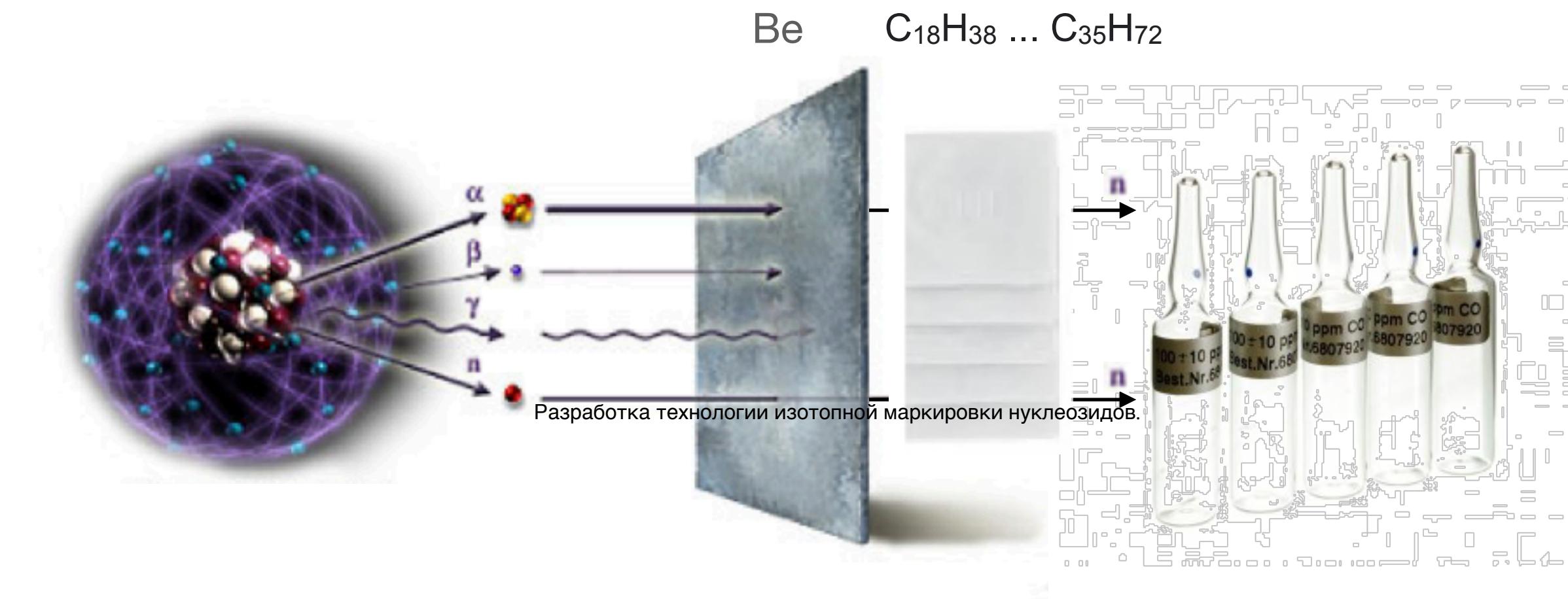


Heavy nucleosides

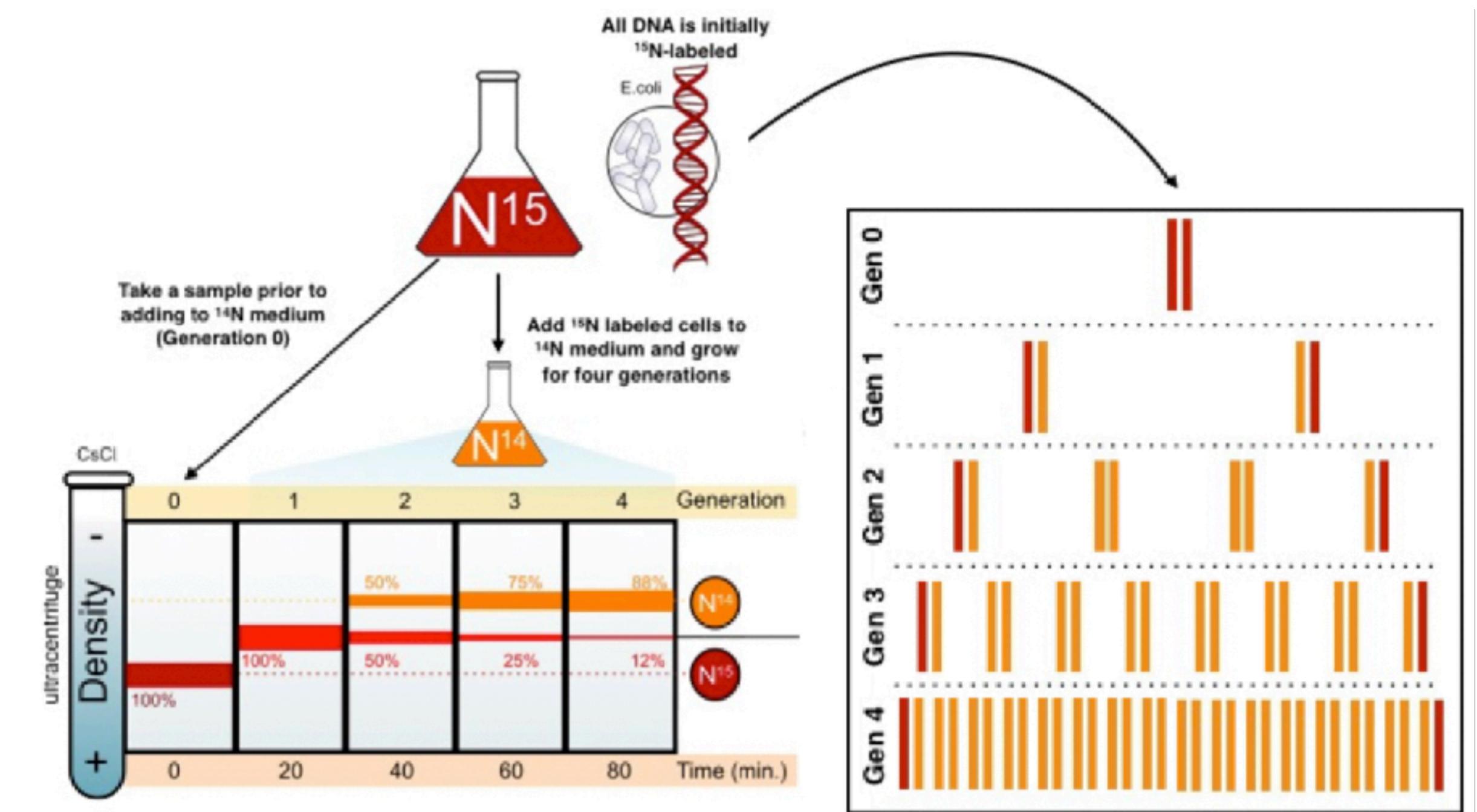


Development of technology for isotope labeling of nucleosides

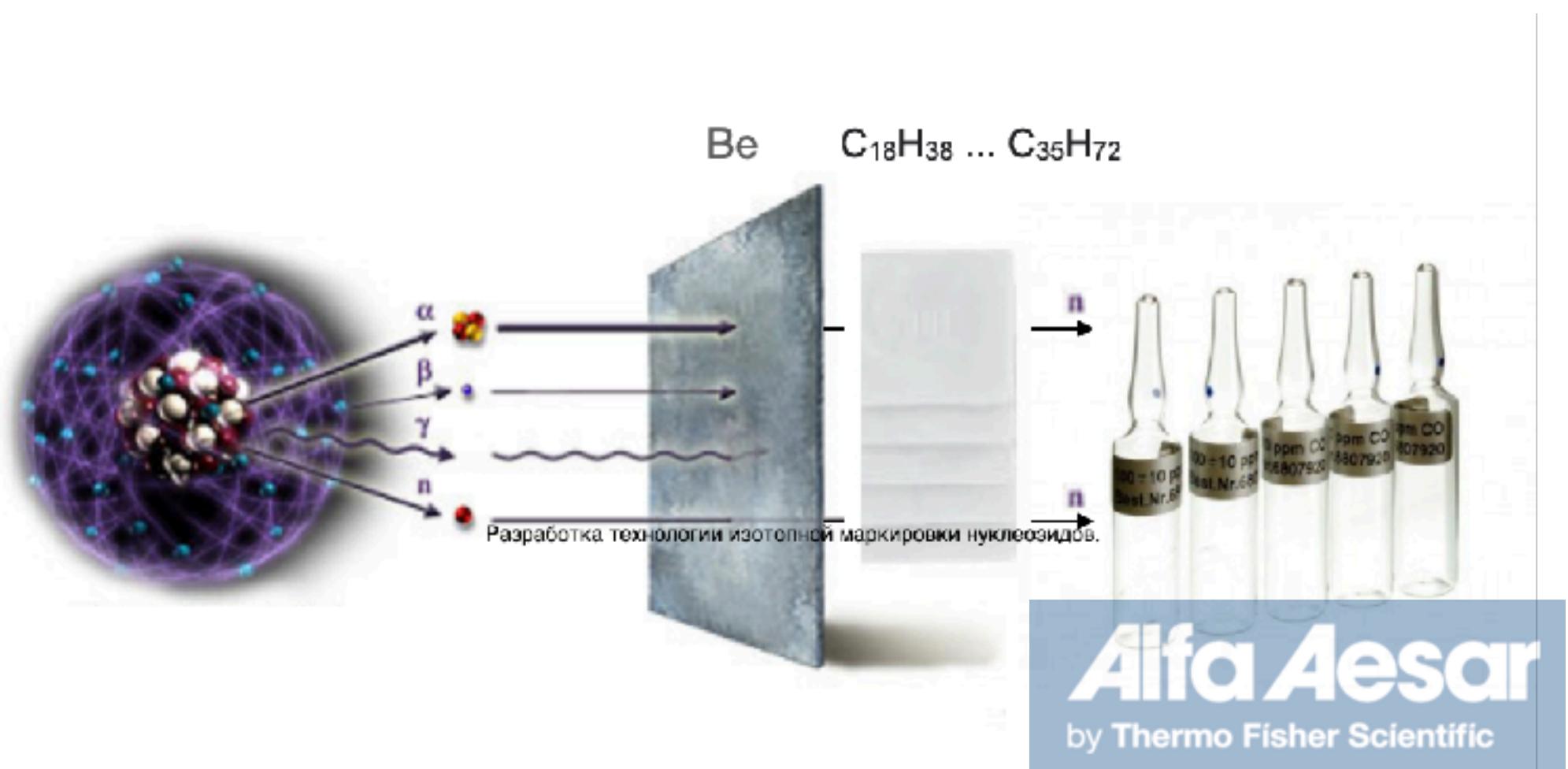
Use Case 1

Meselson-Stahl experiment

- E.coli as a model system
- the nutrient medium contains a "heavy" nitrogen isotope N¹⁵
- bacteria absorbed nitrogen and used it to synthesize new biological molecules
- culture medium contains nitrogen isotope N¹⁴
- DNA should now include N¹⁴



The essence of the idea



Mark nucleoside atoms "in place" with slow neutrons



Commercialization

- sale of technology patents
- sale of labeled nucleosides

Market

- biotechnology
- chemistry
- the medicine
- pharmacology



seed up

40 000€ for 1 year

Financial plan for 2021-2022

Expenditure	Value €
Wage fund	15 000
Tax	1500
Work of co-executors	10 000
Materials	23 500
Laboratory costs	10 000
Total:	40 000

Income	Value €
Sale of products	61 338
Total:	61 338

159,13%

ROI

Состояние проекта на этап пред-акселератора

The screenshot shows the homepage of a website titled "Heavy nucleosides". The header features a dark background with a blue and green DNA helix graphic. The title "Тяжелые нуклеозиды" is prominently displayed in white. Below the title, the text "2021 - Start UP" is visible. A navigation menu on the left includes links such as "Strona główna", "pitchdesk", "NAUKOWY KOMPONENT", "Zespół", "PLAN FINANSOWY", "Yukhnovskiy Ilya Alexandrovich", "Главная страница", "Научное обоснование", "Команда", and "Финансовый план". A search icon is located in the top right corner.

Разработка технологии изотопной маркировки
нуклеозидов

Бизнес-план



- Сайт
- Бизнес-план
- Научное обоснование

Two versions of a business plan document are shown. Both are titled "БИЗНЕС-ПЛАН ИННОВАЦИОННОГО ПРОЕКТА" and "Разработка технологии изотопной маркировки нуклеозидов". The left version is dated "План на 2021 год" and the right version is dated "План на 2022 год". Both documents have a vertical sidebar with sections like "Общая информация", "Цели и задачи", "Методика", and "Заключение".

SOURCES for the European market

- [ISIS-Rutherford-Appleton Laboratories, United Kingdom](#)
- [Institut Laue-Langevin, Grenoble, France](#)
- [Leon Brillouin Laboratory, Saclay, France](#)
- [Berlin Neutron Scattering Center, Germany](#)
- [GEMS at Helmholtz-Zentrum Geesthacht, Germany](#)
- [Juelich Center for Neutron Science, Germany](#)
- [FRM-II, Munich, Germany](#)
- [Budapest Neutron Centre, Hungary](#)
- [RID, Delft, The Netherlands](#)
- [SINQ, Paul Scherrer Institut \(PSI\), Switzerland](#)
- [Frank Laboratory of Neutron Physics, Dubna, Russia](#)
- [St. Petersburg Neutron Physics Institute, Gatchina, Russia](#)

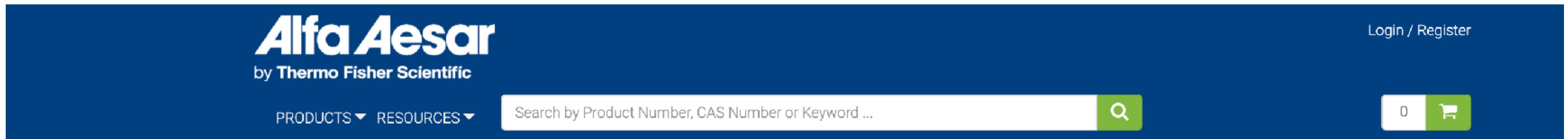


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MATERIALS

<https://www.alfa.com/>



The image shows the top navigation bar of the Alfa Aesar website. It features the Alfa Aesar logo with "by Thermo Fisher Scientific" below it. To the right is a "Login / Register" link. Below the logo are "PRODUCTS ▾" and "RESOURCES ▾" dropdown menus. A search bar contains the placeholder "Search by Product Number, CAS Number or Keyword ...". To the right of the search bar is a green search icon. In the bottom right corner of the header is a white box containing a "0" and a shopping cart icon.

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Alfa Aesar
by Thermo Fisher Scientific

YUKHNOVSKY

ILYA ALEXANDROVICH

- Master in Technical Physics specialty Nuclear Reactors and Power Plants
- 20+ IT skills
- 2020 год - University of Geneva course Particle Physics

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