



Spring Investor Conference Banca Profilo April 3rd, 2023

TOPICS

ARTERRA AT GLANCE





POST IPO (2020-2023)
 MARKET CONSOLIDATION & DIVERSIFICATION

• FINANCIALS



People Speaking Today

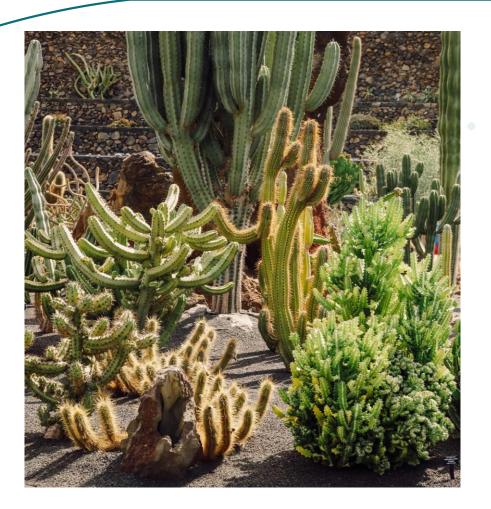


M. GABRIELLA COLUCCI
Founder, President and CEO



GUALTIERO IOIMOCFO and Investor Relations Manager

Arterra Bioscience - Innovative SME

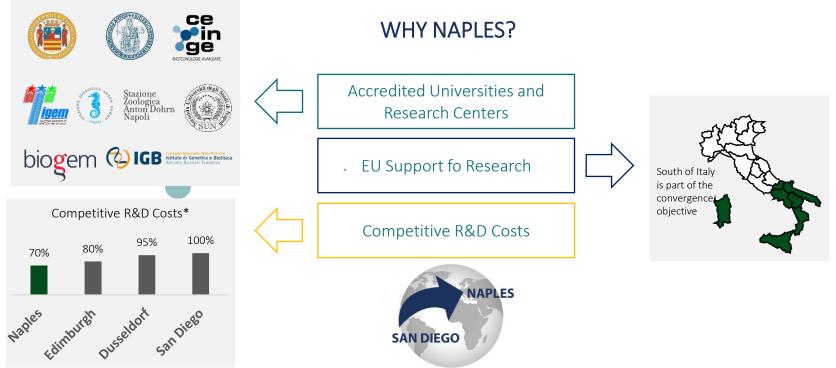


Arterra Bioscience

Is a biotech company listed on the "Euronext Growth Milan" market of Borsa Italiana since 2019, founded in Naples by M. Gabriella Colucci in 2004 with the aim of developing technologies and innovative solutions that find application in various industrial sectors. Arterra is a company strongly linked to the Campania region from which it derives the natural raw materials underlying many of its actives, as well as being able to take advantage of the ideas and enthusiasm of its young researchers.

A Bit of History

Arterra Bioscience started its activity in 2004 as a spin-off of Arena Pharmaceuticals Inc. and based its research group in an incubator laboratory in Naples



Biotech and its potential

BIOTECHNOLOGY FOR THE RESEARCH **AND THE DEVELOPMENT OF NEW ACTIVE COMPOUNDS**

BLUE **BIOTECH**

marine and fresh water organisms

BIOTECH

agricultural processes and plants

WHITE **BIOTECH**

raw materials to valuable products

RED **BIOTECH**

gene to drug discovery

RESEARCH AREAS

TESTING DISCOVERY PLATFORM (HTS) **FOR**

- Cosmetics
- Medical Devices
- Nutraceuticals
- Agricultural Bio-solutions
- Food preservative systems

INNOVATIVE NATURAL SOURCING **FROM**

- Plant Stem Cells
- MicroAlgae
- Extremophile microorganisms

INNOVATIVE PROCESSING TO OBTAIN

- Plant Bio-Peptides
- Hydrophylic Extraction
- Lipophylic Extraction
- Natural fermentation

FIELDS OF **APPLICATION**

INDUSTRIAL

INDUSTRIA

- Cosmetics
- Nutraceutical
- Functional Food
- Agrifood Processing



AGRO

AGRO

- Agricultural Bio-Solution
- Seed Industry

BIOMEDICAL

PHARMA

- Phytoterapeutics (human & animals)
- Drug discovery & target validation



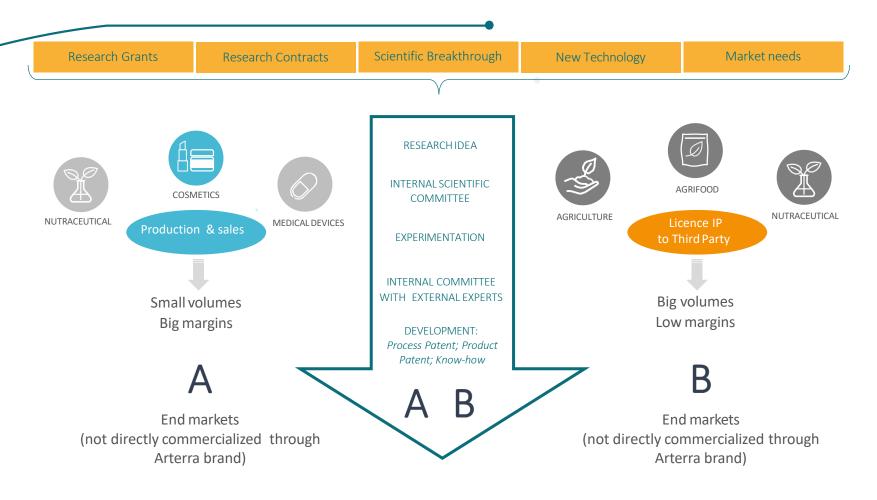
ArterraBioscience Arterra is already active in the market



Arterra is preparing to enter the market

Source: Company Management

Our Buisiness Model



Our Business Model: A



Born in 2010 Vitalab Srl, a joint venture between Arterra Bioscience and Intercos













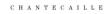










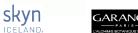




















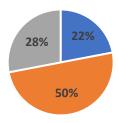


Main Scientific Achievements & Prizes

18 GRANTS

Approved and **financed**

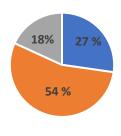
for a total projects' value of approximately **€14m.**



22 PATENTS

Inventor/co-inventor of 22 patents:

N° 7 Worldwide Patents N° 15 Italian Patents



■ Agriculture ■ Cosmetic

Industrial

4 DEPOSITED TRADEMARK



52 SCIENTIFIC ARTICLES

Co-author of 30 scientific articles on Peer Reviewed

Journals



46 INNOVATIVE PRODUCTS
ON THE MARKET



Marisa Bellisario Prize Mela d'oro - Women Value Company

■ EU ■ National ■ Regional



EU Prize for Women Innovators



Rising Star 2019 In Cosmentics Global





"I Giganti del Mattino" Prize



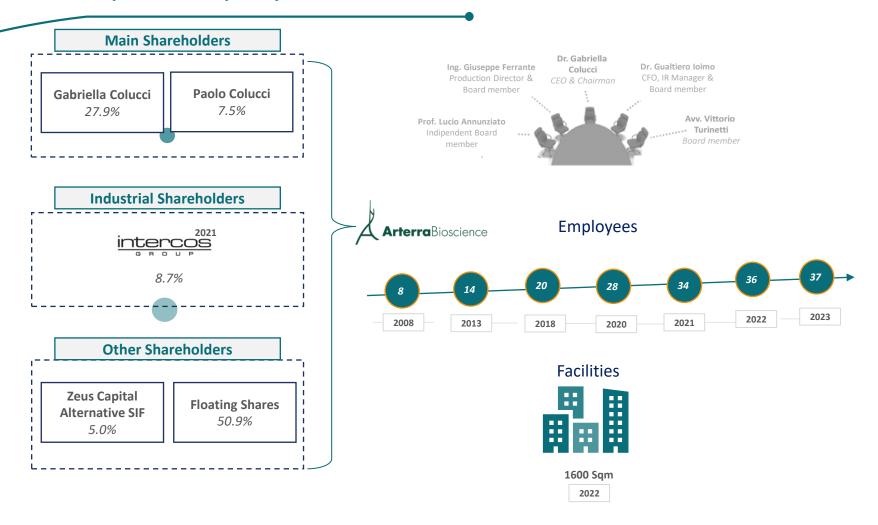
POST IPO 2020-2023



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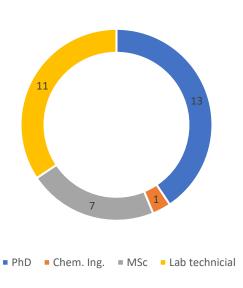
Ownership & Company Structure



R&D Team







The number does not include the administrative workforce (5 employees), and the PhD ad MSc students

Management Team



Gabriella Colucci CEO



Gualtiero loimo CFO & Investor Relations



Vincenzo Fogliano CSO



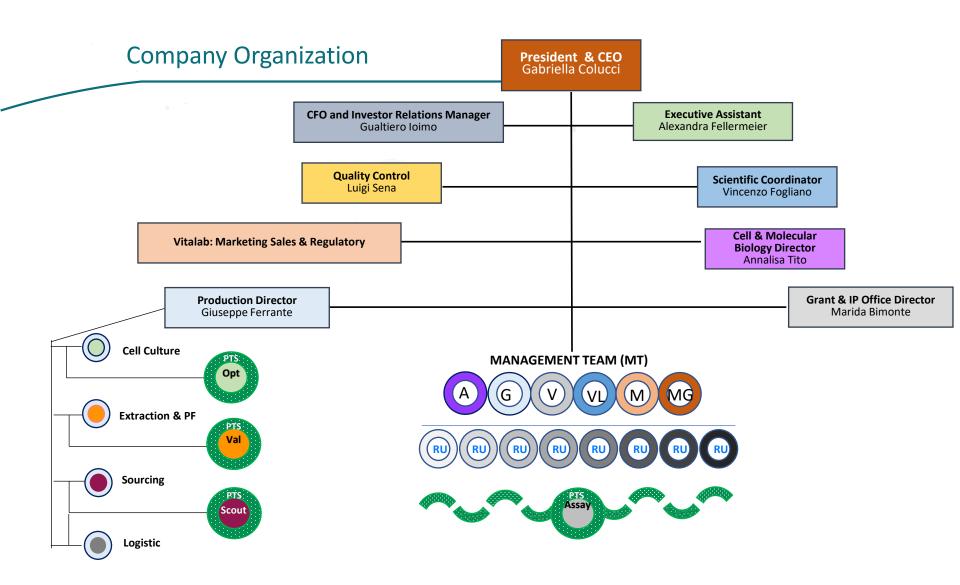
Giuseppe Ferrante COO



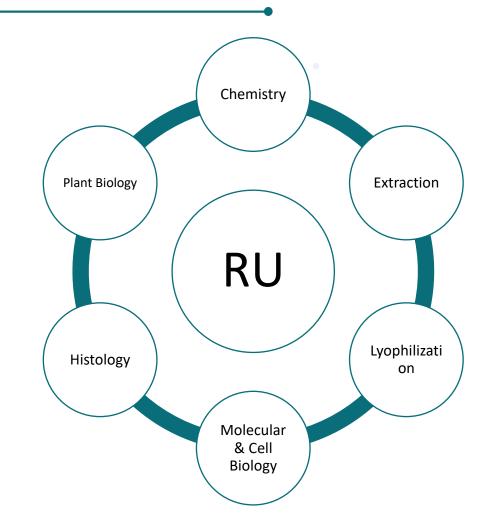
Marida Bimonte Grant & IP Director



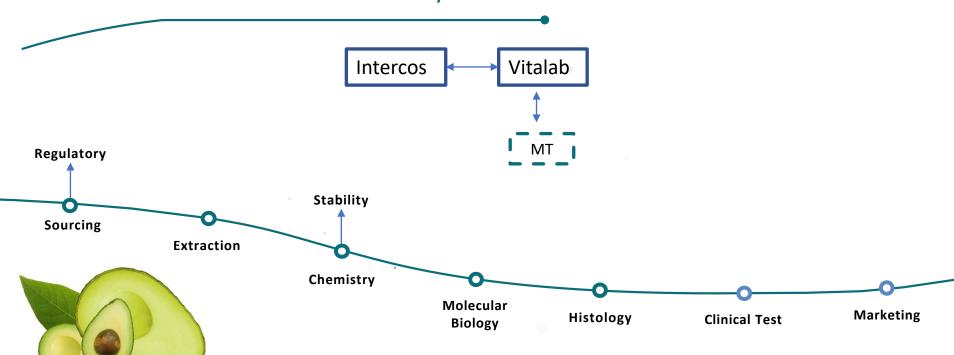
Annalisa Tito Cell & Mol Biol. Director



Research Units



Research Units - Case study



Vita AvoCare

3 months research project

Capex











Total Investment: 1.8 M

New Chemistry lab
New Growing capability
Update Production lab
Update Cell Biol Lab
Utilities, Machinery, Equipment

Certifications









Production Capabilities

Year	Fulfilled orders (kg)	Productivity kg/day	Productivity Euro/day	Outsourcing (Euro)	
				Cell Culture	Lyophilization
2019	8860	9	3150	147.800	8.800
2020	9117	21	7350	272.636	8.000
2021	13.335	21	7.350	14.400	20.000
2022	E. 14.500	50	17.500	62.560	8000

To enhance the competitive advantage of ARTERRA



Aumento di Capitale

On 25 June 2021, ADL Farmaceutici completed a transaction bringing together key investors such as Arterra Bioscience S.p.A., listed on Euronext Growth Milan of the Italian Stock Exchange, Dr. Giorgio Basile, previously the reference shareholder of Isagro S.p.A., a company listed on the MTA market in the STAR segment of the Italian Stock Exchange, and Salvatore and Antonio Riccio, the fourth generation of a family always involved in the Italian pharmaceutical scene.

Arterra Bioscience, contract with ADL Farmaceutici / Del&Bas Pharma for the sale of medical devices



ARTERRA

Research Development Active Ingr. Prod. ADL*

Clinical Study Regulatory Sale network

*ADL changed its denomination in Del&Bas Pharma



Innovation in COSMETICS - 2020-2022

New Products on the Market



NC55 Vita Ray-Immune Pelargonium capitatum plant cells extract



NC60 Vita Up-Gravity Oenothera Biennis plant cells extract



NC56 Anchoryl Vita Scabiosa arvensis plant cells extract



NC61 Vita Avocare

Persea gratissima

fruit extract



NC57 Vita Adren-Align Ficus carica plant cells extract



NC62 Vita Xtend

Opuntia ficus indica cladodes extract +

Coffea arabica seed extract



NC59 Vita BotaniGuard.

Punica granatum

peels extract



NC63 Vita GojiVerse Goji berries extract



NC64 Vita Gly-Jasmin Jasminum Sambac Plant cell extract

Innovation in COSMETICS - 2020-2023

Scientific Publications

- Zappelli C, et al. Scalp soothing properties of Portulaca oleracea. Personal Care Magazine, January 2023.
- Ceccacci S, et al. Jasminum sambac Cell Extract as Antioxidant Booster against Skin Aging. Antioxidants 2022, 11, 2409.
- Tito A, et al. Innovative 3D skin and plant models to monitor Piezo1- and Piezo2-driven mechanotransduction. IFSCC Magazine, Volume 25 (5), 2022.
- Ceccacci S, et al. Promitotic Action of Oenothera biennis on Senescent Human Dermal Fibroblasts. International Journal of Molecular Sciences 2022, 23, 15153.
- Zappelli C, et al. Rose Geranium Rebalances IR-, Blue Light- and UV-Altered Skin Biomarkers.
 Cosmetics & Toiletries, September 2022.
- Gogliettino M, et al. Recombinant expression of archaeal superoxide dismutases in plant cell cultures. A sustainable solution with potential application in the food industry.
 Antioxidants 2022, 11, 1731.

Innovation in COSMETICS - 2020-2023

Scientific Publications

• Zappelli C, et al. Imperfectly perfect: moisturising and anti-ageing potential of an oil-soluble extract from rejected avocados.

HPC Today vol. 17 (3), 2022.

• Ceccacci S, et al. An Oenothera biennis Cell Cultures Extract Endowed with Skin Anti-Ageing Activity Improves Cell Mechanical Properties.

Metabolites 2021, 11, 527.

- Apone F. Uses and properties of bioactive peptides in skin care. HPC Today, vol. 16 (3), 2021.
- Tortora A, et al. Soothing Moves: Cannabis Sativa Cell Culture Alleviates Inflammation.
 Cosmetic & Toiletries, Jan 2021, vol. 136, n. 1, 34-39
- Tito A, et al. An hydrosoluble extract from Oenothera biennis cell culture produces skin anti-ageing effects by improving cell mechanical properties.

The proceeding of the 27th IFSCC Congress 2021, Mexico.

• Dini I, et al. An extract from Ficus carica cell cultures works as an anti-stress ingredient for the skin. Antioxidants, 2021, 10, 515.

Innovation in COSMETICS - 2020-2023

Scientific Publications

- Laneri S, et al. Plant cell culture extract of Cirsium eriophorum with skin pore refiner activity by modulating sebum production and inflammatory response.
 - Phytother Res. 2020; 10.1002/ptr.6832. doi: 10.1002/ptr.6832.
- Tito A, et al. A peptide preparation from *Scabiosa arvensis* cell cultures increases skin compactness by stimulating Collagen XVII and Insulin-like Growth factor. The Proceedings of the 26th IFSCC Congress 2020, Yokohama.
- Apone F, et al. Plant tissue cultures as sources of ingredients for skin care applications. Annual Plant Reviews 2020, 3: 135-150.
- Tito A, et al. A Triticum vulgare extract exhibits regenerating activity during the wound healing process. Clin Cosm & Invest Dermatol 2020, 13: 21-30.
- Tito A, et al. A new ingredient from Rosa rugosa tissue cultures delays skin aging by promoting mitochondrial functions. Personal Care Europe 2020, April 131-137.

Innovation in COSMETICS - 2020-2023

Patents

- **102020000021994.** Uso cosmetico di estratti derivati da colture cellulari appartenenti alla specie *Oenothera biennis* e composizioni cosmetiche che contengono tali estratti.
- **102019000021324.** Uso cosmetico di un estratto derivato da colture cellulari di Portulaca grandiflora per il trattamento di inestetismi cutanei dovuti all'invecchiamento della pelle.
- **102019000009558.** Uso cosmetico di estratti derivati da colture di cellule vegetali appartenenti alla specie Pelargonium capitatum e composizioni cosmetiche che contengono tali estratti.
- WO2020127056A1. Cosmetic, pharmaceutical and nutraceutical use of an extract derived from cannabis sativa cell cultures.

Innovation in MEDICAL DEVICE - 2020-2023

Scientific Publications

Tito A, et al. Pomegranate Peel Extract as an Inhibitor of SARS-CoV-2 Spike Binding to Human ACE2 Receptor (in vitro): A Promising Source of Novel Antiviral Drugs.

Front Chem. 2021 Apr 28;9:638187.

Tito A, et al. A pomegranate peel extract as inhibitor of SARS-CoV-2 Spike binding to human ACE2 (in vitro): a promising source of novel antiviral drugs.

bioRxiv December 2020.

Patents

102021000020309. Estratti derivati da olive e pale di fico d'India per l'uso nella prevenzione e nel trattamento della dermatite atopica.

102020000018949. Estratto derivato da bucce di *Punica granatum* per il trattamento di infezioni virali.

First product on the medical device market

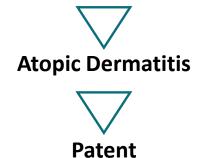




MEDICAL DEVICE & NUTRACEUTICAL

Grant

NUTRABEST - Fondo Crescita Sostenibile "Agrifood", DM 5.3.2018, (Gennaio 2020 - Gennaio 2023) - Sviluppo di piattaforme molecolari e cellulari per l'identificazione di prodotti innovativi ad attività NUTRAceutica da Biotrasformazioni mediante organismi ESTremofili.



102021000020309. Estratti derivati da olive e pale di fico d'India per l'uso nella prevenzione e nel trattamento della dermatite atopica.

Clinical Study – in progress



AGRIFOOD



June 2021: Arterra Bioscience and Montecarlofruit S.a.r.l., specialized in the production of aseptic mango fruit purea for baby food, in Mali, signed a research agreement for the up-cycling of the mango waste.

Fruit for peace

It is an ongoing project promoted by Montecarlofruit and born as a project of economic activation and social development designed for marginal contexts and characterized by states of endemic emergency.



SOCIAL AND ECONOMICAL IMPACT



60 PERMANENT WORKERS



4.300 SMALL FARMERS



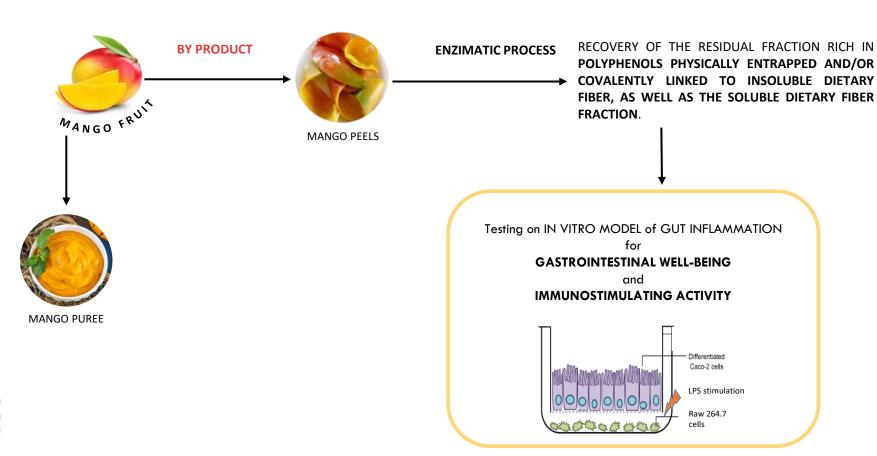
42 COPERATIVES ACROSS THREE REGIONS IN MALI



TECHNICAL ASSISTANCE TO SUPPORT THE DEVELOPMENT AND UPGRADE OF PLANTATIONS AND THE IMPLEMENTATION OF SUPPLY CHAIN TRACEABILITY SYSTEMS

KETs for peace







From lab protocol to industrial process



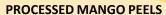
MANUFACTURING PROCESS



INDUSTRIAL SCALE-UP



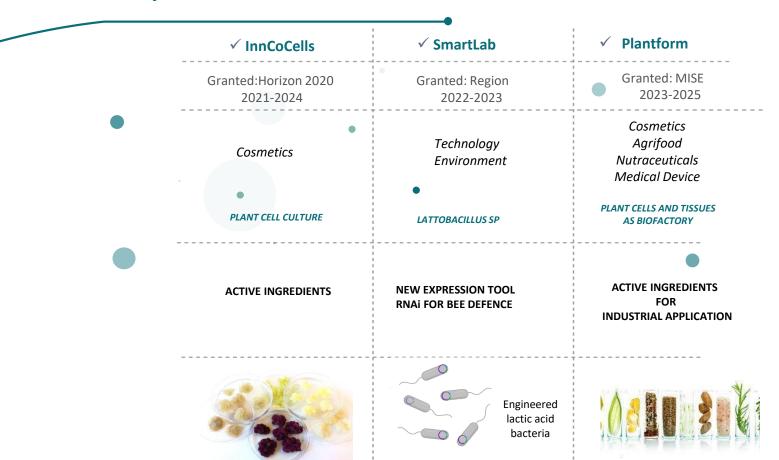
Our Research Scientist Antonio with local farmers in Mali

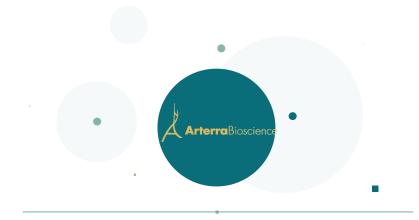






Granted Projects

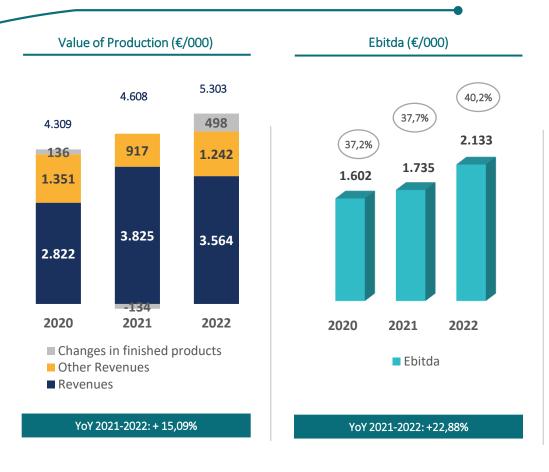


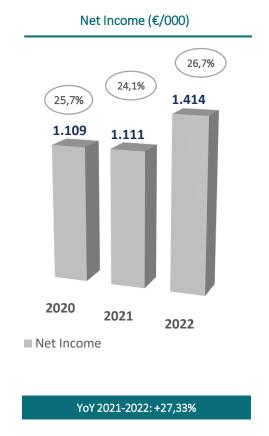


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Limited production costs driving compelling profitability: thriving upside arising from additional revenues to be mostly converted in EBITDA



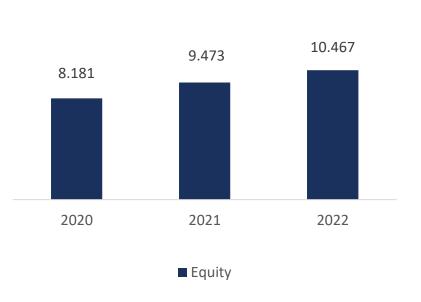


Net Debt / Equity

Net Debt	(€/000)
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	2020	2021	2022
Cash and Cash Equivalents	(4.536)	(4.814)	(4.393)
Current Financial Receivables	(340)	-	-
Financial assets other than fixed			
assets			(1.598)
Current Financial Debt	218	223	174
Current Net Debt	(4.658)	(4.591)	(5.817)
Long term Financial Receivables	-	-	-
Long term Financial Debt	592	391	315
Net Debt (Cash)	(4.067)	(4.199)	(5.502)
*including credits from grants	(4.587)	(4.923)	(6.407)

Equity (€/000)



THE **BOARD OF DIRECTORS**, WHICH MET ON MARCH 30TH 2023, FOR THE FY 2022 **PROPOSED TO DISTRIBUTE A DIVIDEND OF 666 €/K (DIV/PRICE 4,5%¹)** TO BE PAID IN MAY 2023, SUBJECT TO THE APPROVAL OF THE SHAREHOLDERS' MEETING WHICH WILL MEET AT THE END OF APRIL

(1) calculated with stock price updated to March 30th, 2023

Key Highlights

Bioscience great momentum since environmental sustainability is becoming crucial for a huge number of industries

- Biotech company with an outstanding R&D and highly qualified Technology Team
 - A global reach and presence with low commercial investments
 - Huge potential in the reference coremarket
- A profitable and scalable business model

Attractive key financials driven by impressive profitability

6



THANKS



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