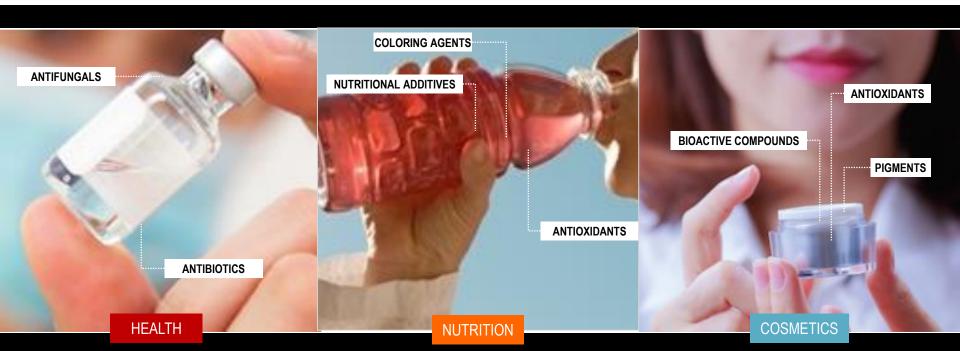


INNOVATIVE AND NATURALLY-SOURCED ACTIVE MOLECULES FOR HEALTH, NUTRITION AND COSMETICS



DEINOVE AT A GLANCE

DEINOVE HARNESSES THE POTENTIAL OF ITS REMARKABLE COLLECTION OF RARE MICROORGANISMS



TO PROVIDE INNOVATIVE COMPOUNDS FOR APPLICATIONS IN:



22 B\$ (Kline)

COSMETICS

Antioxidants (carotenoids)
Bioactive compounds
Pigments...



20 B\$ in 2018 (MarketsandMarkets)

NUTRITION

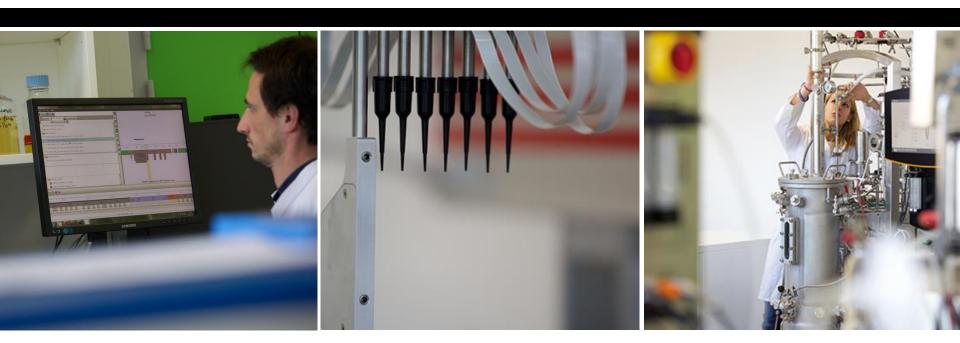
Antioxidants Coloring agents (carotenoids) Nutritional additives, etc.



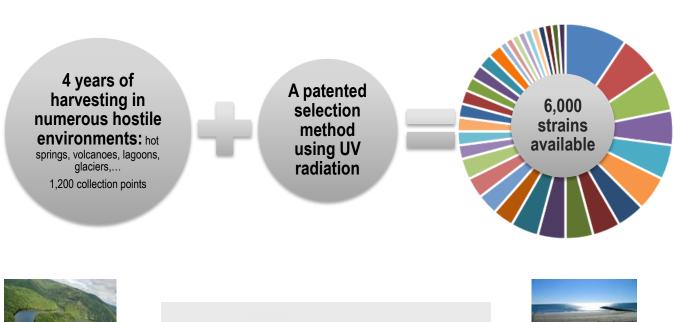




MERGING BIOLOGY AND TECHNOLOGY



A COLLECTION OF 6,000 STRAINS A UNIQUE BIODIVERSITY, UNTAPPED SOURCE OF INNOVATION





■ Deinococcus

Others

■ Bacillus

■ Microbacterium

Arthrobacter

Rhodococcus

■ Delftia

■ Micrococcus

■ Paenibacillus

■ Pseudomonas

Curtobacterium

Cellulomonas

Microvirgula

■ Cellulosimicrobium

Kocuria

Leifsonia

■ Stenotrophomonas

■ Lactococcus

■ Brevibacillus

■ Cupriavidus

■ Enterobacteriaceae

■ Serratia

Deinococcus geothermalis

ENGINEERING BIOLOGY

• 6.000 Deincocccus strains

and other rare bacteria
• Culture, selection and

production of extracts

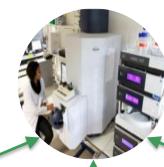
Sequencing

CUTTING-EDGE TECHNOLOGIES, HIGHLY QUALIFIED STAFF

COLLECTION AND AUTOMATED PRODUCTION OF EXTRACTS



CUTTING EDGE ANALYTICAL PLATFORM



- Determine the structure of compounds produced (antibiotics, carotenoids)
- Analyze the strain metabolism for optimization purpose



MOLECULES



IN VITRO SCREENING

- Test the strains
- Identify interesting features, production of compounds of interest

AUTOMATED GENETIC ENGINEERING

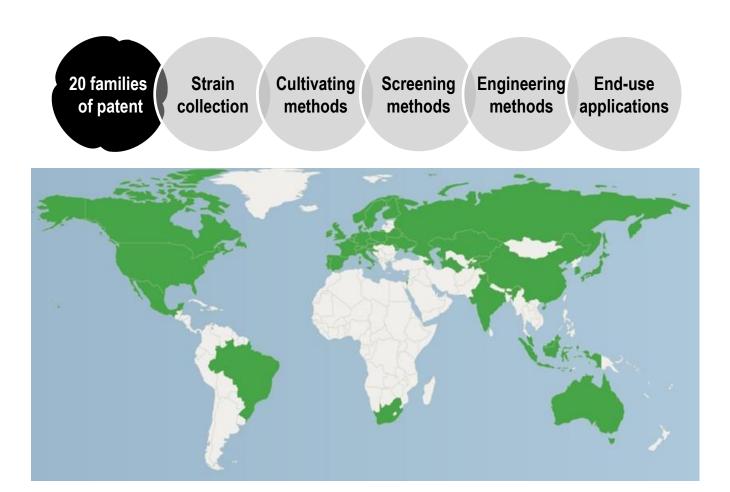
• Optimize the strain for end use: yield, biodisponibility...



- Test and optimize the production process in increasing volumes
- Produce extracts for testing (efficacy, pharmacological properties...)

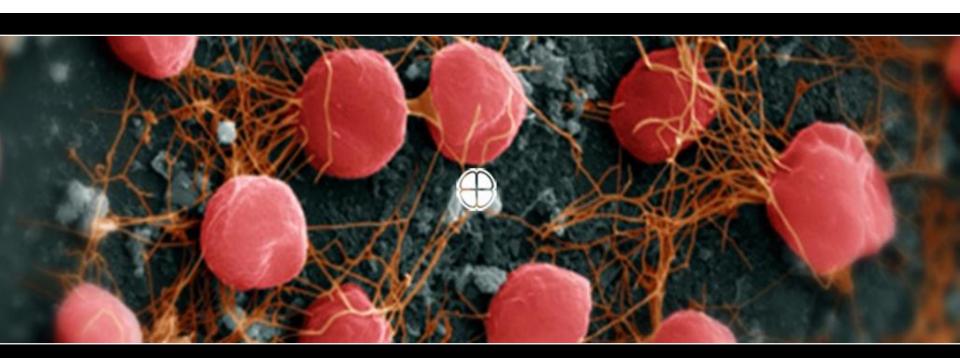


EXCLUSIVE TECHNOLOGY PROTECTED BY PATENTS A BASIS TO CREATE VALUE





ADDRESS THE ANTIMICROBIAL RESISTANCE, A MAJOR PUBLIC HEALTH ISSUE



THE CHALLENGE OF ANTIMICROBIAL RESISTANCE CALL FROM THE UNITED NATIONS ON 21/09/2016

« Antimicrobial resistance is a slow-motion tsunami that must be managed with the utmost urgency. Only two new classes of antibiotics have reached the market in the last 50 years. With few replacement products in the pipeline, the world is heading towards a post-antibiotic era in which common infections will once again kill. »

Dr Margaret Chan, Director-General of the WHO, Sept.2016

TO FIGHT MULTI-RESISTANT PATHOGENS

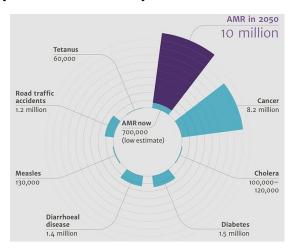


THE CHALLENGE OF ANTIMICROBIAL RESISTANCE A MATTER OF URGENCY

A THREAT TO PUBLIC HEALTH

Antimicrobial resistance (AMR) could cause **10 million deaths/year** by 2050

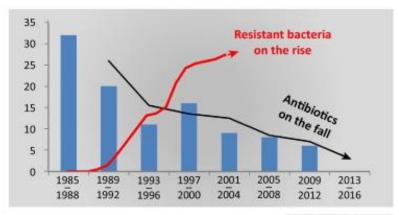
Today 700 000 deaths/year



Deaths attributable to antimicrobial resistance every year compared to other major causes of death (*World Health Organization*)

... WITH LITTLE REMEDIAL SOLUTIONS

Since the early 80's, the number of antibiotic molecules supplied to the market has dropped dramatically



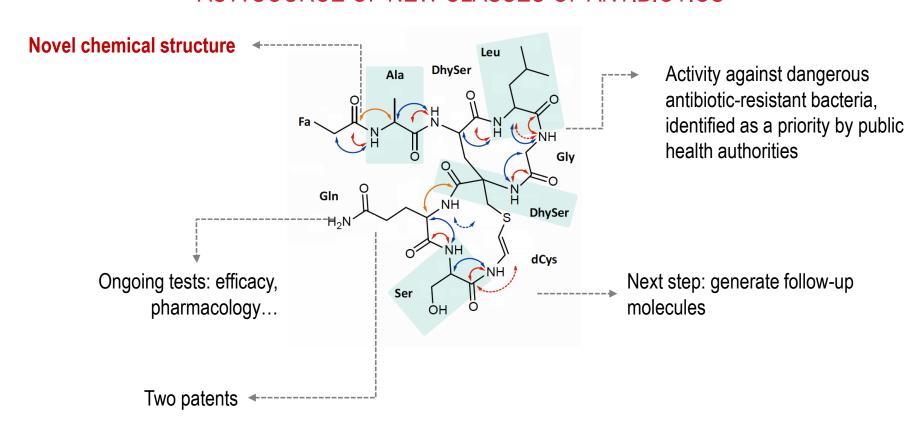
TRENDS in Microbiology

- BIG PHARMAS ARE NOW ACTIVELY LOOKING FOR NEW MOLECULES
- Explore novel bacterial genera as new sources

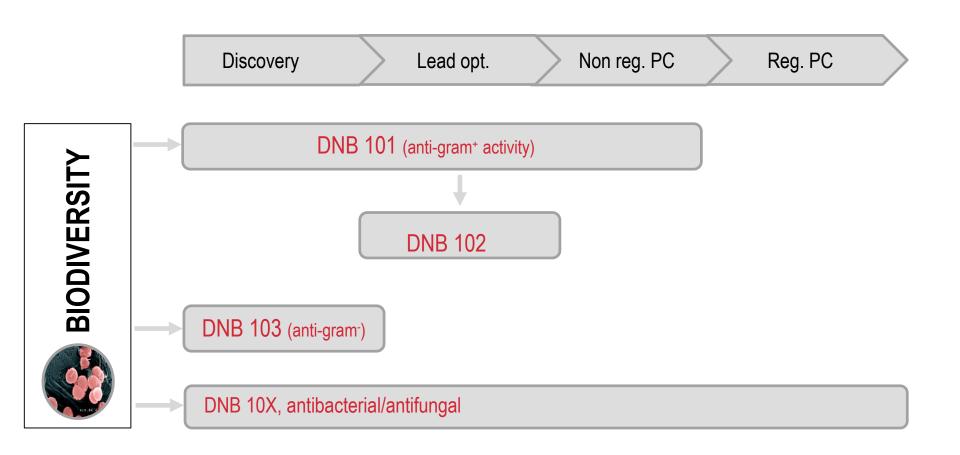


DNB 101, THE FIRST INNOVATIVE STRUCTURE TO BE DISCOVERED THE BACKBONE FOR NEXT-GENERATION LEADS

VALIDATES THE POTENTIAL OF DEINOVE'S BACTERIA AND PLATFORM AS A SOURCE OF NEW CLASSES OF ANTIBIOTICS



BUILDING A TRUE PIPELINE EFFECTIVELY ADDRESSING THE CONCERN OF MULTI-RESISTANCE



ANTIBIOTICS PROJECT GRANTED €14.6M BY 'INVEST FOR THE FUTURE' PROGRAM

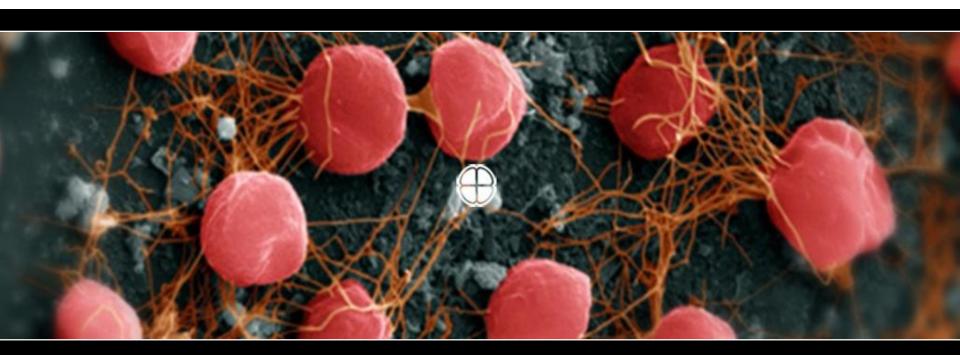
- The AGIR project (Antibiotics against Resistant Infectious Germs), carried out by the DEINOVE group and the Charles Viollette Institute, aims to identify novel antibiotic structures from rare bacterial strains by developing new collection, culture, screening, optimization, and evaluation methods; and thus contribute to the development of treatments responding to the medical emergency.
- A funding of €14,6 million from the « Investments for the future » program led by the General Investment Commission (CGI) and operated by Bpifrance
 - > Five-year program
 - > Total budget estimated at €25m
- The DEINOVE Group will receive €10.4m while the Charles Viollette institute will receive €4.2m
- This support demonstrates the French government's commitment to fighting resistance to antibiotics, which is a major health issue on a global scale.







PROVIDE INDUSTRY WITH SUSTAINABLE AND INNOVATIVE SOLUTIONS



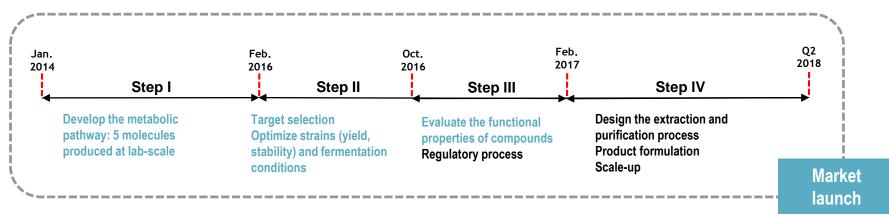
XTREMECARE³: INNOVATIVE CAROTENOID FOR COSMETICS LAUNCH OF A NEW BIO-BASED COSMETIC ACTIVE



XtremeCARe3:

Inspired by nature,
Made by science
A patented active
ingredient, powerful
antioxidant, multiapplication

Commercial launch in 2018!



COSMETICS: FIRST PARTNERSHIP WITH GREENTECH

WITH SALES PERSPECTIVE AS OF 2018

Co-develop and market new active ingredients for skin care



Major player in the production and distribution of biotechnologically obtained ingredients

Sells a hundred active ingredients derived from biodiversity to cosmetics manufacturers in over 30 countries

Objective:

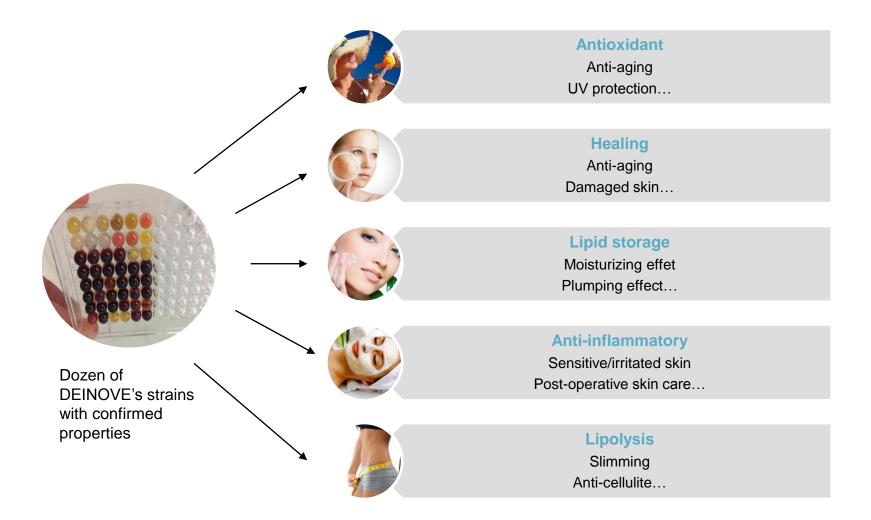
A commercial launch by end of 2018





A CATALOG OF COSMETIC ACTIVE EXTRACTS

TO CREATE NEW BUSINESS OPPORTUNITIES



ANIMAL NUTRITION: TWO PARTNERSHIPS WITH BIG PLAYERS ZOOM IN ON « COLOR2B » PROJECT WITH AVRIL



GOAL OF THE COLLABORATION

- Avril, major player of the vegetable oils and proteins sectors
- Development of a production process for natural feed additives
- Co-financed by the two partners



NEXT STEPS

- Industrialize the production
- Assess the technical-economic criteria and sign the licensing agreement
- Undertake the required regulatory formalities to begin marketing these active ingredients
- Launch new animal nutrition product lines

STRAIN SCREENING

DEINOVE:

- IDENTIFICATION AND CHARACTERIZATION OF MOLECULES PRODUCED
- OPTIMIZATION OF PRODUCTION CONDITIONS









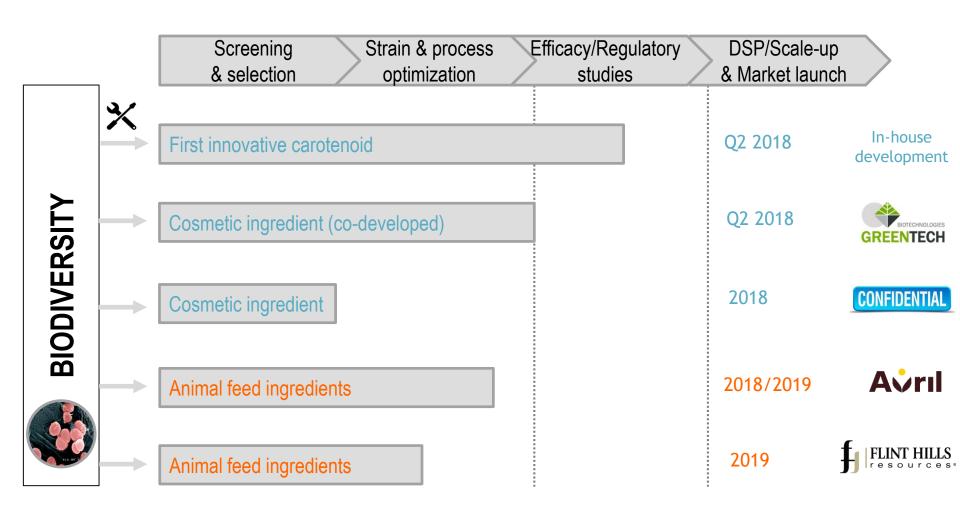


SEPT. 2014 THREE-YEAR COLLABORATION AGREEMENT

MAY 2015 – KEY STEP 1 SELECTION OF 20 STRAINS PRODUCING COMPOUNDS OF INTEREST APRIL 2017 – KEY STEP 2
EFFECTIVENESS OF THE
INGREDIENTS
VALIDATED BY AVRIL



INDUSTRIAL BIOTECH PIPELINE COMMERCIALIZATION WITHIN A SHORT TIME FRAME



BUSINESS MODEL FUNDING & REVENUES

EQUITY CONTRI-BUTION



R&D CONTRACT REVENUES



NON-DILUTIVE FUNDING

INDUSTRIAL DEALS

- R&D COLLABORATIONS
- TECHNOLOGY LICENSING





DIRECT SALES

- PROPRIETARY COMPOUNDS
- TOLLING & DIRECT MARKETING

PHARMA DEALS

- OUT-LICENSING MODEL
- PLATFORM R&D COLLABORATIONS





CAPITAL AND SHARE PERFORMANCE



Stock price evolution



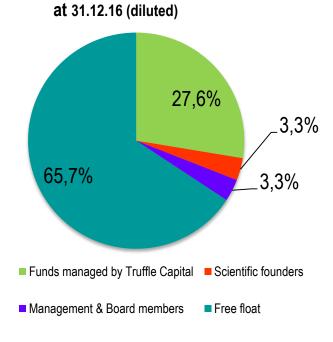
Market data

Market cap: €21m

Share price: €2

Average volume 55,000 in 2017: shares/day

Shareholders' structure



Broker	Price target	Date
Edison	€4.4	01.09.17
Invest Securities	€4.4	24.09.17
Portzamparc	€5.6	29.09.16



MAJOR ADVANCES IN THE 3 AREAS OF WORK 2017 NEWSFLOW HISTORY

JAN

- 1st new antibiotic structure patented
- · Deinobiotics becomes a fully-owned subsidiary

MAR

- Bernard SCORNEAUX joins as Preclinical Director
- Screening of 430 strains for applications in cosmetics, health and nutrition: dozens of hits identified (antioxidant, anti-inflammatory, healing, activity on lipid metabolism)
- Partnership with Greentech to co-develop and market a first cosmetic ingredient by end of 2018

APR

 Partnership with Avril: Phase II successfully completed - Effectiveness and bioavailability of the ingredients developed by Deinove validated => moving towards assessment of the technical-economic criteria and preparing for industrial production

MAY

- 1st patent in animal nutrition, issued in China
- Georges GAUDRIAULT joins as new Chief Scientific Officer
- Partnership with FHR (Koch industries): Phase I successfully completed Selection of several bacterial strains from Deinove library producing the target compounds => moving towards *in vivo* testing

JUL

- Carotenoids: 1 molecule selected for production on an industrial scale in 2018 and characterized (antioxidant and healing properties, safety), yield optimized on lab-scale => moving towards validation of the industrial process conditions and selection of subcontractors
- Sébastien ENAULT joins as new Head of BD

SEPT

Antibiotics project granted 14.6M€ by 'Invest for the Future' Program

FINANCIAL DATA – 2016

Stable net loss: -€6.3m (vs. -€6.4m in 2015)

> Tight control over operating expenses: +0.3%, while DEINOBIOTICS project has been fully reintegrated into DEINOVE

Cash burn under control:

Cash position +€9.3m (vs. +€12.4m at end of 2015)

- > Stable operating expenses: (€7,750k); investments (€770k); Subscription for DEINOBIOTICS bonds (€500k)
- > Increased income: 2nd and 3rd milestones DEINOCHEM Ademe (€2,264k); Worldwide Innovation Challenge Bpifrance (€140k); 4th milestone DEINOL (€948k); Research tax credit 2015 (€1,600k); revenues from collaboration agreements (€793k) AVRIL, FHR; Equity line (€780k)
- > Cash resources to finance its projects until the end of the 1st quarter of 2018, without resorting to Tranches 3 and 4 of the equity line funding

FINANCIAL DATA – S1 2017

Consolidated financial statements for the first time

Stable net loss: -€3.3m

Cash burn under control:

Cash position +€6.6m (vs. +€9.3m at end of 2016)

- > Cash out: operating expenses (€4100k, 74% R&D); investments (€900k)
- > Cash in : Revenues from collaboration agreements (€140k) AVRIL, FLINT HILLS RESOURCES; R&D tax credit (€1253k vs. €745k S1 2016); Sale of Carbios shares (€500k); Equity line (€1200k); Financial resources of DEINOBIOTICS (€600k)

DEINOVE REASONS TO INVEST

Help tackle important challenges for a sustainable future:

- Energy transition,
- Fight against resistance to antibiotics,
- Changes in diets because of a growing population...

Get the best of the French research

Bet on an exclusive technology that convinced leading industrial partners and independent experts

Invest in fast-growing markets



CONTACTS





Emmanuel PETIOT CEO Tel.: + 33 6 13 80 25 30 emmanuel.petiot@deinove.com





Coralie MARTIN
Communication, Marketing and Investor
Relations Manager
Tel.: + 33 4 48 19 01 60
coralie.martin@deinove.com



Montpellier, FRANCE CAP SIGMA ZAC Euromédecine II 1682 rue de la Valsière 34790 GRABELS www.deinove.com