

COMPANY INTRODUCTION

**VSR: an Innovative Biotech
Discovery Company**

VSR's business model: two main components

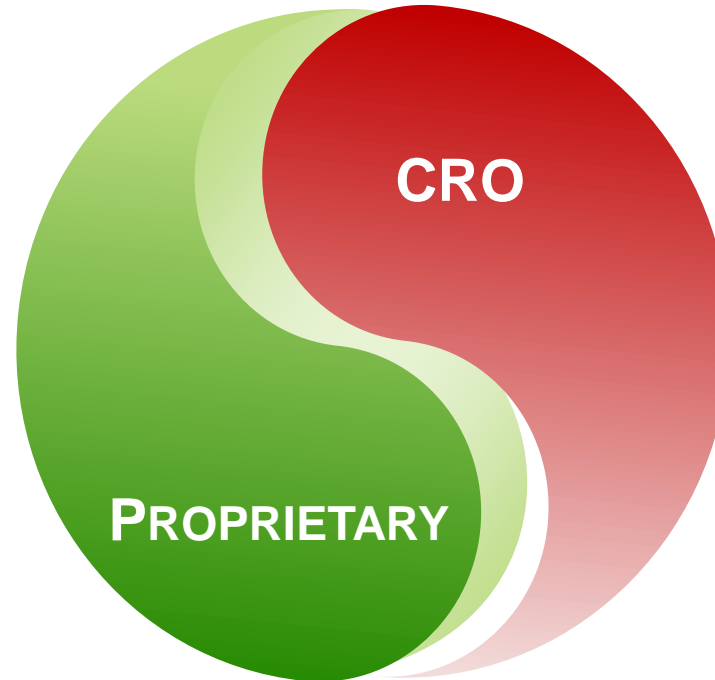


PROPRIETARY RESEARCH

Discovery of **innovative small molecules** of plant origin

Iterative molecular **engineering** and re-combination

Medium/long-term **investments**



CRO RESEARCH

Tailored, end-to-end new asset design and patenting

Co-discovery of new assets and support to own research

Short-term **cash generation**

Areas of expertise: Biopharma, Nutraceuticals, Food & Agritech, Animal Health

Our pipeline: fourteen projects, three ready for *in vivo* development



PROPRIETARY



STAGES

1. CONCEPTION

- 📖 Anti-microbial drugs (for antibiotics-resistant bacteria)
- 📖 Tools for regenerative medicine enhancement
 - Guanylyl Cyclase C agonists
 - Livestock protection tech (alternative to antibiotics)
 - Cherry tomato-based nutraceuticals
 - Crop protection and detoxification technology

2. DISCOVERY

- 📖 Neurodegenerative disease prevention drugs (anti-inflammatory)
- 📖 Anti-ageing (anti-oxidants) drugs and cosmeceuticals
- 📖 Chemotherapy / radiotherapy toxicity prevention drugs
 - Pomegranate waste valorisation technology

3. VALIDATION

- 📖 Therapy for Inflammatory Bowel Diseases (intestinal mucosal barrier)

4. PATENTING

(ready for in vivo dev.)

- 📖 Target therapies for solid tumours (15+)
- 📖 Immunomodulation drugs
 - Cationic exchange resins

CURRENT PROJECTS



Growth model: four potential options



PROPRIETARY



DIRECT FUNDRAISING

- Diversified pipeline
- Flexible business model
- Outstanding R&D team
- Experienced, dedicated mgmt team

PARTNERING & Co-DEVELOPMENT



- Early tailoring of technology to market / partner needs
- Accelerated R&D through synergies
- Possibility to leverage different geographies



NEWCo(s) INCORPORATION



- Focused on specific, IP-protected asset's pre-clinical and clinical development
- Dedicated talent sourcing
- Access to VSR's know-how and laboratory capabilities
- Flexible governance and localization options

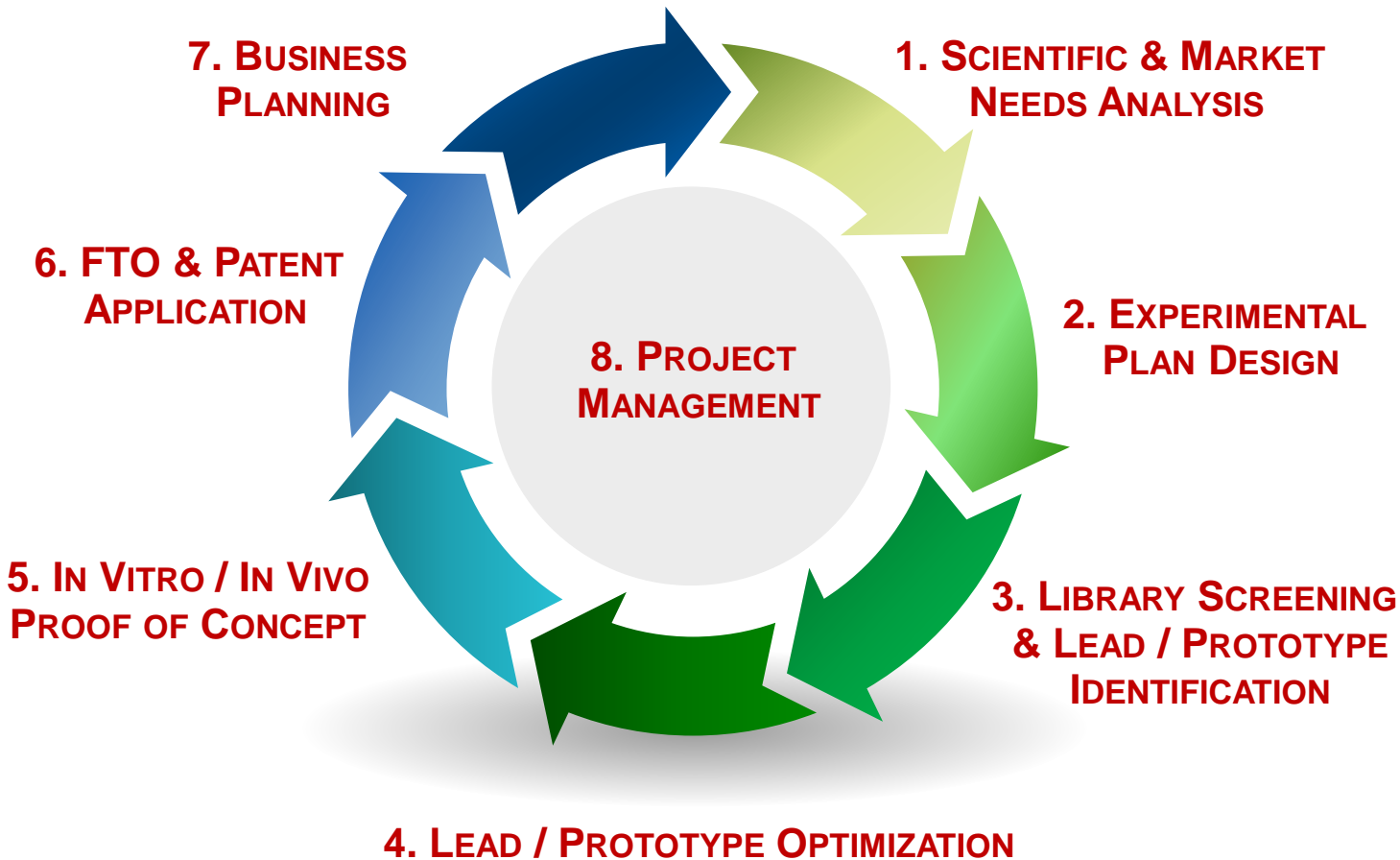
OUT LICENSING

- Wide portfolio of opportunities
- Support in iterative technological evolution

Currently seeking investors to accelerate growth and pipeline development



END-TO-END SOLUTIONS



AD HOC RESEARCH SERVICES

BASIC RESEARCH

- Gene expression
- Immunoassay
- Epithelial Barrier
- Proteomic
- Signal Transduction
- Cell Death & Apoptosis
- Cell Migration
- Cell Invasion
- Cell Proliferation
- Cell Adhesion

DRUG DISCOVERY

- Drug Synthesis
- Cytotoxicity Assays
- Efficacy & Side Effects
- Lead Compound Screening
- Target Identification
- Mechanisms of Action

PRECLINICAL RESEARCH

- PoC¹ Studies
- Toxicology Studies
- Animal Models of Disease
- PK & PD² Testing
- Animal Imaging



CASES

1. BIOPHARMA

2. AGRITECH

3. ANIMAL HEALTH

BACKGROUND

Heritable Kidney Disorders are mostly **chronic, uncurable diseases** with negative prognosis

Lemon and its derivatives possess **micronutrients** with unexploited nutraceutical / pharma properties

Farm animals experience **intensive sanitation procedures** with harmful effects for human health

OBJECTIVE

Discover new pharmacological treatments to **improve clinical patient management**

Assess the **chemical fingerprint** of lemon **products and byproducts** (juice, pulp, peel)

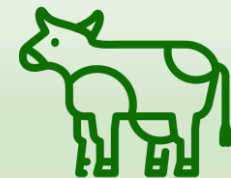
Assess and improve current feeds in terms of **animal health** and **quality / safety** of food derivatives

KEY RESULTS

New molecular targets identified and validated, to be translated into novel therapeutic strategies

Knowledge of nutraceutical potential and strategy to **maximize lemon production value** (including waste)

Innovative, antibiotic-free bio-feeds for the regular diet of farm animals



Team and partners



General Management



UNIVERSITÀ degli STUDI di CATANIA



LEXAGE



Business Development



Giovanni M. Pitari
Research & Development

Expertise:

- Basic & Clinical Pharmacology
- Translational Medicine

- Professor, *Thomas Jefferson University* (USA)
- Principal Investigator in International Cancer Projects
- Inventor, 5 PCT-level Patents (40% success rate)



Finance & Administration



LABORATORY



Genetics



Immunology



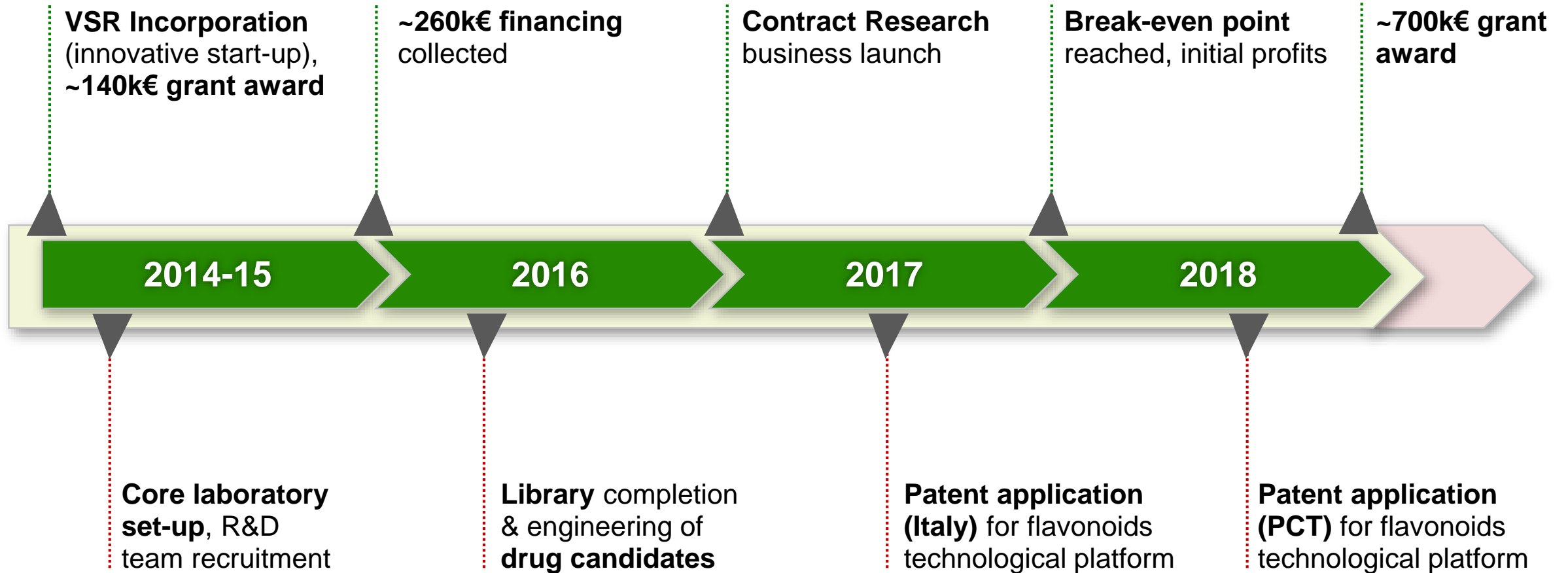
MedChem



Our history and results achieved so far



KEY CORPORATE MILESTONES



KEY SCIENTIFIC MILESTONES

VERA SALUS RICERCA S.R.L.



ADDRESS



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