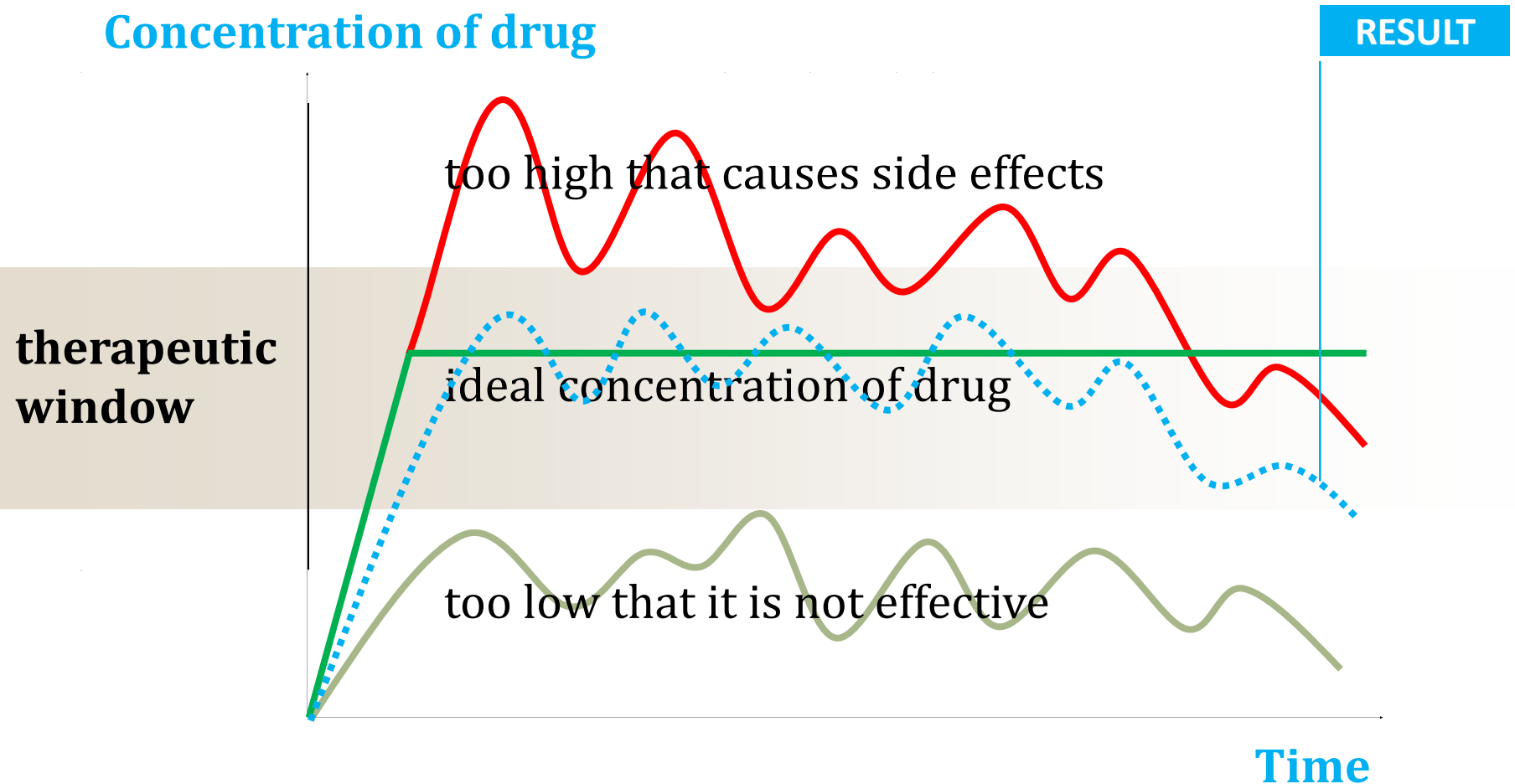


PHARMACEUTICAL COMPOSITION

New Generation of Medicines

Technology which enables the controlled release of a drug from the formulation.

Problem – Uncontrolled therapy, uncontrolled administration of drugs

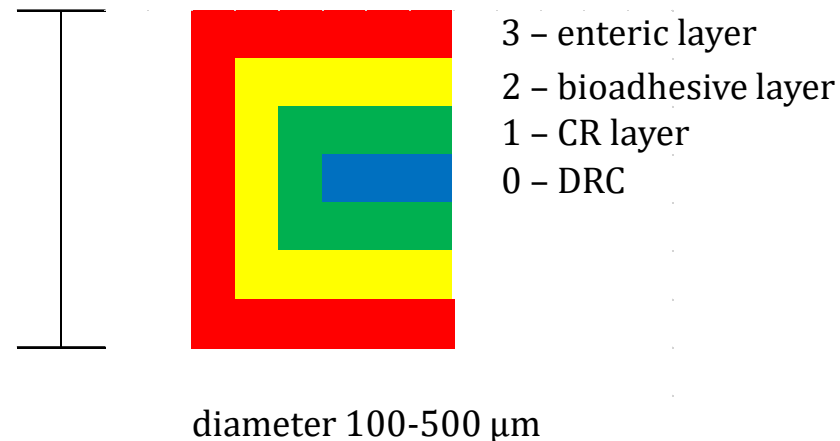


Solution– The controlled release of a drug from the formulation

Novelty – number and the order of coatings

RESULT

- **Formulation** – a lot of particles
 - DRC / drug resin complex + layers
- **Pharmaceutical composition** -
 - enables **controlled and site specific** release of drug from formulation
- **Technology** – spray granulation
 - modification – number / order of coatings

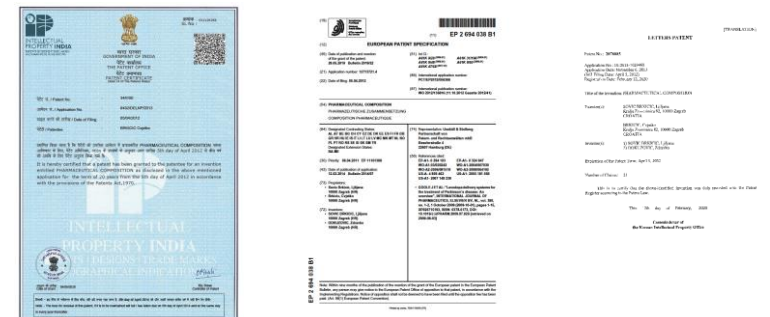


Model of particle (DRC + layers)

Patent application WO2012136816 (at national phases – 90 countries)

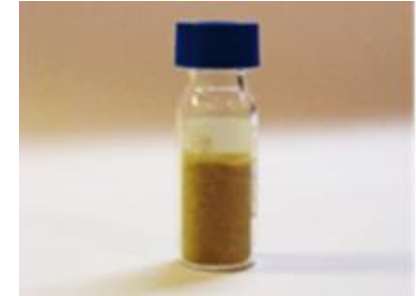
Patent application – WO201236816

- EPO application
- PCT application
- national applications
- 90 countries
- 4 patent unions, others
- granted – 90 countries
- covered – 3 billion people



Competition

**Example -
novel
levodopa**
(antiparkinsonic)



Competitors	Duodopa	Existing oral formulations	Novel formulation
Price per year	50,000 Euros or more	1,000 Euros	3,000 - 5,000 Euros
Administration	parenteral	oral	oral
Features	unacceptable application	causes side effects	well controlled release
Rating of CR	excellent	bad	very good
Evaluation	<div> <div>⊖</div> <div>Expensive</div> </div> <div> <div>⊖</div> <div>Very inconvenient</div> </div> <div> <div>⊕</div> <div>Highly effective</div> </div>	<div> <div>⊕</div> <div>Low cost</div> </div> <div> <div>⊕</div> <div>Convenient</div> </div> <div> <div>⊖</div> <div>Ineffective</div> </div>	<div> <div>⊕</div> <div>Price acceptable</div> </div> <div> <div>⊕</div> <div>Convenient</div> </div> <div> <div>⊕</div> <div>Very Effective</div> </div>

The Platform - Usable for drugs with N

Duodopa

Hypertension

morphine

Depression

olanzapine

Viagra

sildenafil

Parkinson`s disease

tramadole

Sinemet

risperidone

Epilepsy

levodopa

Value Proposition



Users



Benefits

Patients

- better drug treatments
- better therapy
- better quality of life



- therapeutic – lower side effects
- economic – saving money
- business – staying on job / working

Health insurances / payers

- will ensure better treatments
- rationalisation of costs
- lower costs



- therapeutic – better healthcare
- economic - saving money (long-term)
- business – better results

Pharmaceutical company

- will produce better products
- good business opportunity
- higher market share



- **added value** – higher profit
- revenues in billion / **blockbusters**
- **The Platform**

Market Opportunity & Risks

Market

→ *European and global*

Blockbusters (past and future)

→ *Revenues in billion / Large PH company*

The Platform

→ *Usable to all drugs containing N (nitrogen)*

Business Model



Licensing (Model 1 of commercialization)

- cooperation with large pharmaceutical company
 - resources, fast realization, **high revenues, blockbusters**
-



Production (Model 2 of commercialization)

- outsourced production, later own production
 - higher costs, slower realization, longer exploitation
-



Next proceedings

- completing of package for commercialization / licensing
- **small trials** (known main and additional substances)

Commercialization & Marketing

Licensing (Model 1)...

...to large PH company

- need for novel products
- crisis in PH industry
- lack of good inventions
- **this is the opportunity**
- resources, **files**, network

Production (Model 2)...

...outsourced production

- need for better therapy
- novel technology developed
- **small trials**
- registration of medicines
- **fast** commercialization

Financial Projections



Licensing...

Large PH (Model 1)

- revenues in **billion**
- **blockbusters**
- **added value** - generics
- **prolong** patent protection
- **The Platform**

Production...

SME (Model 2)

- need partnering
- need funding
- slower realization
- less revenues
- less profit

Who we are?



**Zdravko
Dokuzović, PhD**

Researcher, inventor,
technologist,
earlier patents



**Ljiljana
Sović Brkičić**

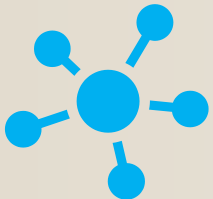
Researcher, inventor,
patent applicant,
idea, business strategy



**Cvjetko
Brkičić**

Patent applicant,
business experience,
investment

Team – 95 years of experience; 15 years on this project; 36,500 hours of work (this project)

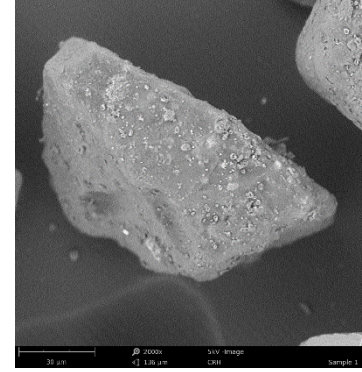


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- Ljiljana Sović Brkičić
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- pharmaceutica@blc.hr

Conclusion



We have a solution which will improve
the lives of people.

We have the best innovative project in Europe.
This is project with global potential.

Points



Novel technology / New generation of medicines

- developed
- patents granted up to the year 2032 (+ 5 years additional)



The Platform

- usable to different drugs
- usable to all drugs containing nitrogen (N)



Important / novel technology is applicable

- generics - **added value**, new generation of medicines
- novel drugs – **to prolong patent protection**