

"Discovering The World Of Chemistry"



#### Dr. Dimitrios Tzalis IMI Open Info Day: Horizon 2020 - Health, demographic change and wellbeing 18th September 2015 Brussel





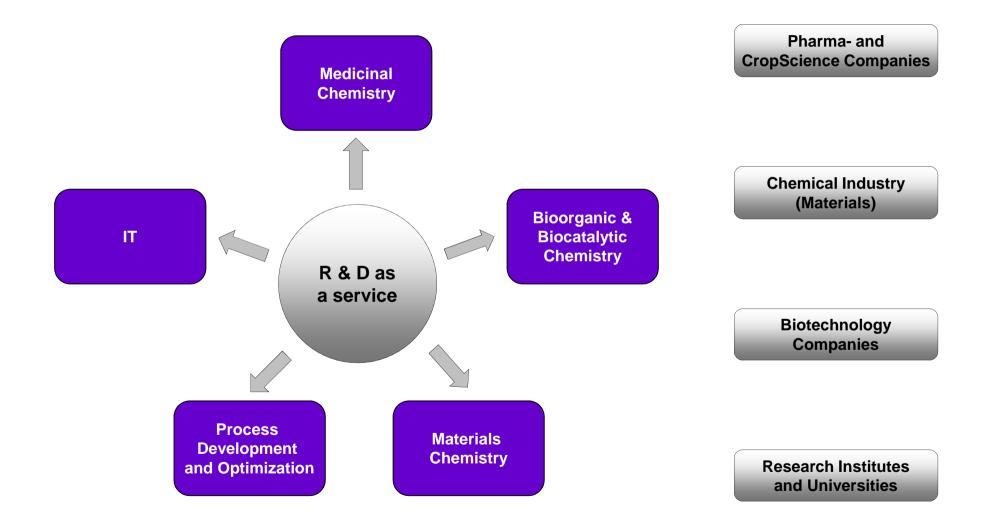
#### **Taros: Stability, Capability, Flexibility**

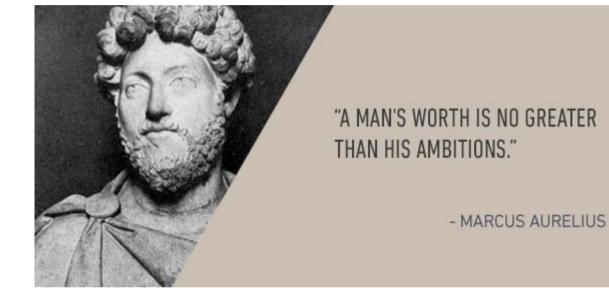
As a leader in drug discovery, Taros provides contract discovery, development, and manufacturing services to serve our clients' needs

- Founded 1999
- Privately owned
- 1500 sqm lab, based in Dortmund Germany (BioMedizinZentrum)
- 62 employees (> 70% Ph.D.)
- More than 6.000 projects delivered
- More than 200 customers served
- Invented "TarosGate ", the smart 24h/7 Project Management Software
- Taros is coordinating the Chemistry Consortium of the "European Lead Factory" drug discovery platform









#### "A PROJECTS WORTH IS NO GREATER THAN ITS AMBITIONS"



#### **European Lead Factory** Game Changing for Innovative Medicine

**Dr Dimitrios Tzalis, ELF Coordinator for the Public Compound Collection** *Open Info Day, 18th September 2015 Brussel* 



# **Consortium with 30 Public and Private Partners**

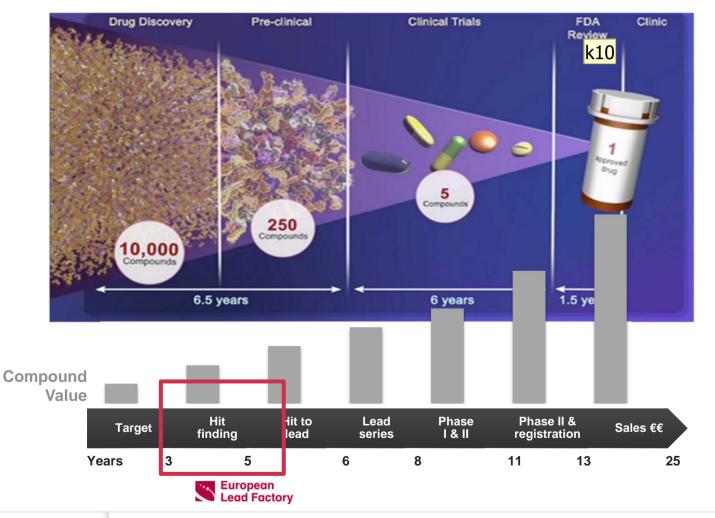


150 employees combining **innovation** of Academia, **agility** of SME's, and **experience** of Pharma





#### **Drug Research Value Chain**



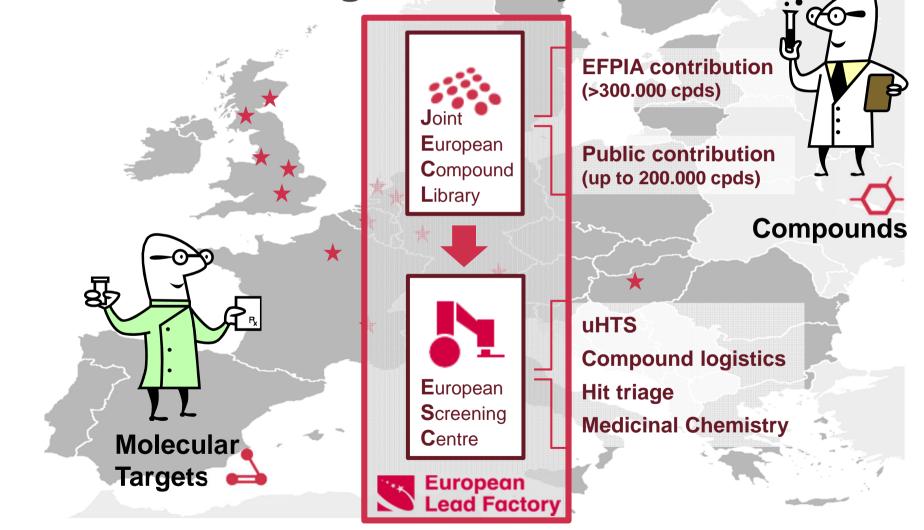


k10 FDA should read EMA kristina.orrling, 28/05/2014

Slide 7



#### **Collaborative Drug Discovery Plattform.**

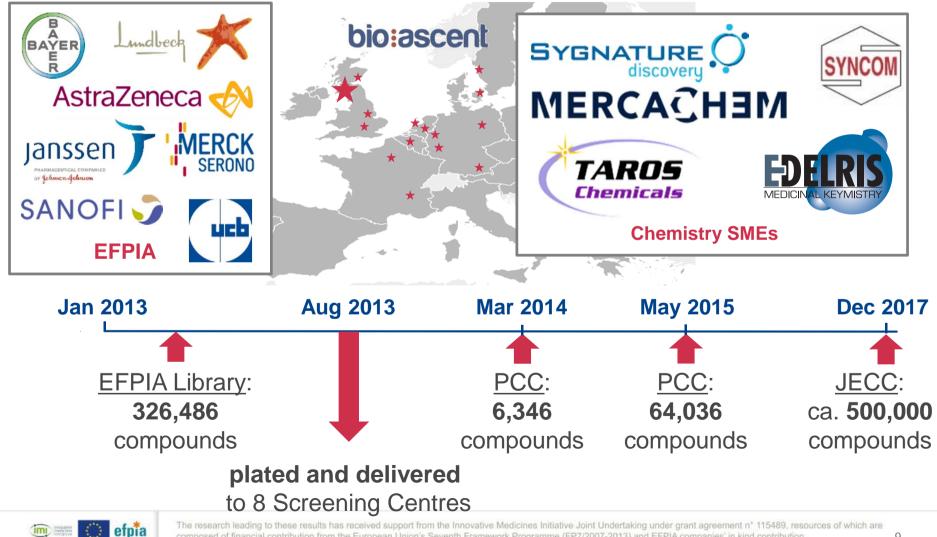






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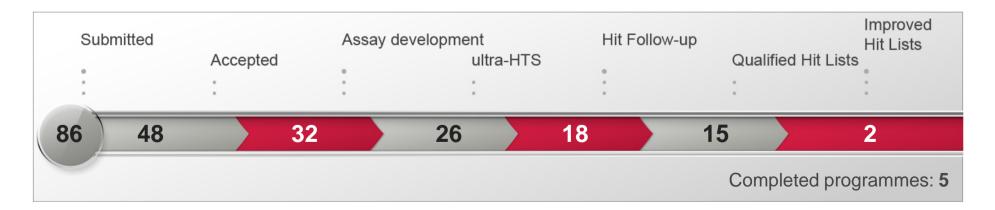
## **Building the JECL**





# **Screening Achievements since 2013**

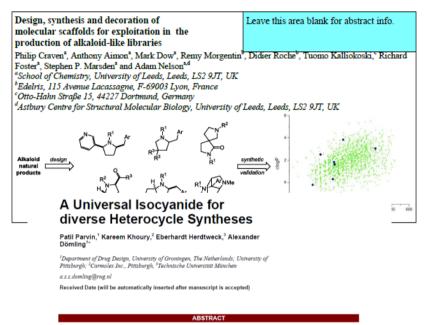
- All relevant technical capabilities operational
- Core EFPIA library available for screening
- Honest Data Broker system available for protected data handling
- Lines of communications to coordinate screening partners established
- Efficient recruitment and selection process of high quality programmes in place
- Education of academic programme owners during entire process
- High quality output of screening and hit validation

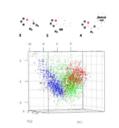




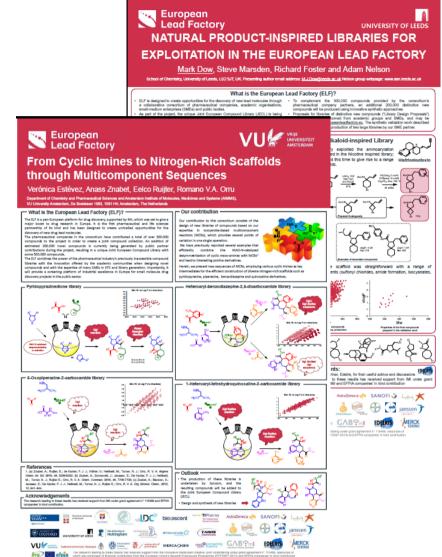


#### **Results**





Novel scaffolds are of uttermost importance for the discovery of functional material. We describe three different beterocyclic scaffolds easily accessible from isocyanoacetaldehyde dimethylacetale 1 by multicomponent reaction







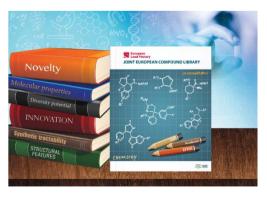
# Innovation

Symposium-in-print in *Bioorganic & Medicinal Chemistry Letters* features **13** papers from consortium partners [(2015) **23**(11), 2607-2740]

• Highlights innovative synthetic approaches (eg. natural product-like libraries, multicomponent approaches and diversity-oriented synthesis)

Invited article in *Drug Discovery Today* [(2015) *accepted*] and two invited book articles

• Highlights innovative molecular properties and uniqueness of produced compounds (eg. structural, physicochemical, conformational)







# EUROPEAN LEAD FACTORY

#### www.europeanleadfactory.eu





### SME: how to participate in an IMI call



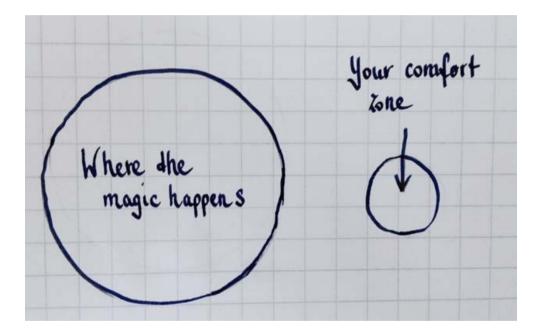
2 Options

- create and coordinate a consortium
- join a consortium





### **Application Phase**



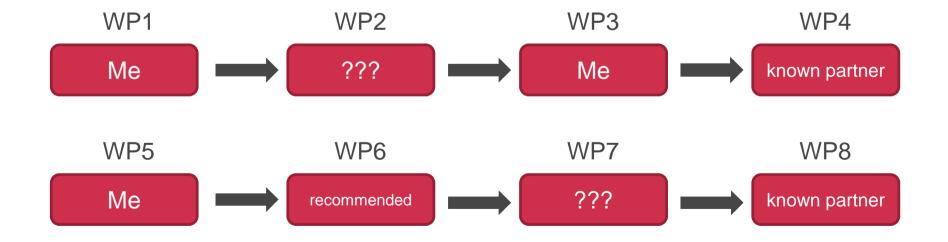




## **Application Phase**

First problems to encounter:

Search: who fits into a potential consortium







### **Application Phase**







# What is important when considering a new partner

- search should be INTERNATIONAL
- partner should be contributing proactive
- but first and foremost: the chemistry has to be right





# **SME: Grant Application**

- follow exactly the call text
- close gaps that you have through partners
- if not sure clarify ahead of proposal submission





#### Do you need pre-existing experience in FP 7 to participate or coordinate an IMI Call?

NO

#### but: IT REALLY HELPS

- there should be pre-existing experience with local and • national funding agencies
- proper accounting and documentation procedures have to be in place





## Do you need pre-existing experience with Big Pharma to participate or coordinate an IMI Call?

• NO

but: IT REALLY HELPS

- The goal of IMI calls is to generate VALUE by translating academic knowledge into (commercial) value (close in time and not some time in the future)
- Coordinator is a EFPIA representative





# What about IP protection?



- IMI has laid out in the Grant Agreement clear rules and all builds on these
  - > Focus is that everybody has his/her IP/value protected
  - ➢ Fair treatment of all partners
  - > Exploitation of generated IP is a question of negotiation





#### Legal Issue: Project Agreement



- EFPIA and academia arrived with an "Armada" of highly experienced and competent lawyers
- essential in the application phase was a legal advisor (could be difficult for SMEs)
- we where 5 SME who shared costs for a legal advisor





# Do you need external advisors supporting you in the IMI call?

YES!!!

- highly recommended: especially for SMEs
- highly experienced and provide infrastructure supporting the application and project phase (reports, finance, formalities)
- normally free of charge during the application phase





# How does IMI compare to "traditional" programmes

- EFPIA is strongly involved
  - goal: generate value (value does not always mean €€)
  - intensive exchange with EFPIA in order to assure real application
- optimal utilization of:
  - -creativity of academia
  - -flexibility and agility of SMEs
  - -efficiency and vision of the "Big Pharma"
- it does not focus solemnly on the need of one partner but it is focused on one aspect:

#### The greater good of the patients and society





## Things to look out for and be cautious



- overwhelming personalities
- company has to be financially sound
- ramp up phase should be kept short



#### European Lead Factory

# Benefits for SME in the participation in the IMI

- intensive exchange with EFPIA
- insite in requirements and operation of EFPIA partners and the needs of academic partners in the field of drug discovery
- partnerships and trust is being built
- loose cooperation on "equal" grounds
- access to a wide network of other SMEs, academic partners and big pharma representing potentially an entire Drug Discovery Value Chain

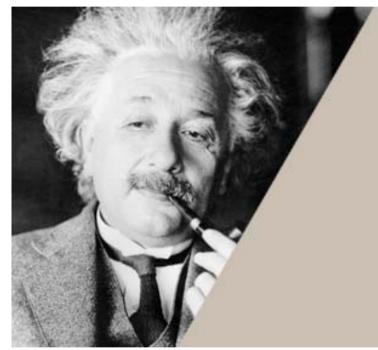




#### **Lessons Learned**







"TRY NOT TO BECOME A MAN OF SUCCESS, BUT RATHER TRY TO BECOME A MAN OF VALUE."

- ALBERT EINSTEIN



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Dr. Dimitrios Tzalis Taros Chemicals GmbH Co KG Emil Figge Str. 76a dtzalis@taros.de <u>www.taros.de</u> Tel +49 231 97427211



# ANY QUESTIONS?

