STEFANO ALCARO



UNIVERSITY-BUSINESS COLLABORATION IN A TIME OF RECOVERY AND RESILIENCE Rome, February 22-23, 2022

PITCH SESSION: SUSTAINABILITY IN ACTION

PON RICERCA E INNOVAZIONE 2 0 1 4 - 2 0 2 0

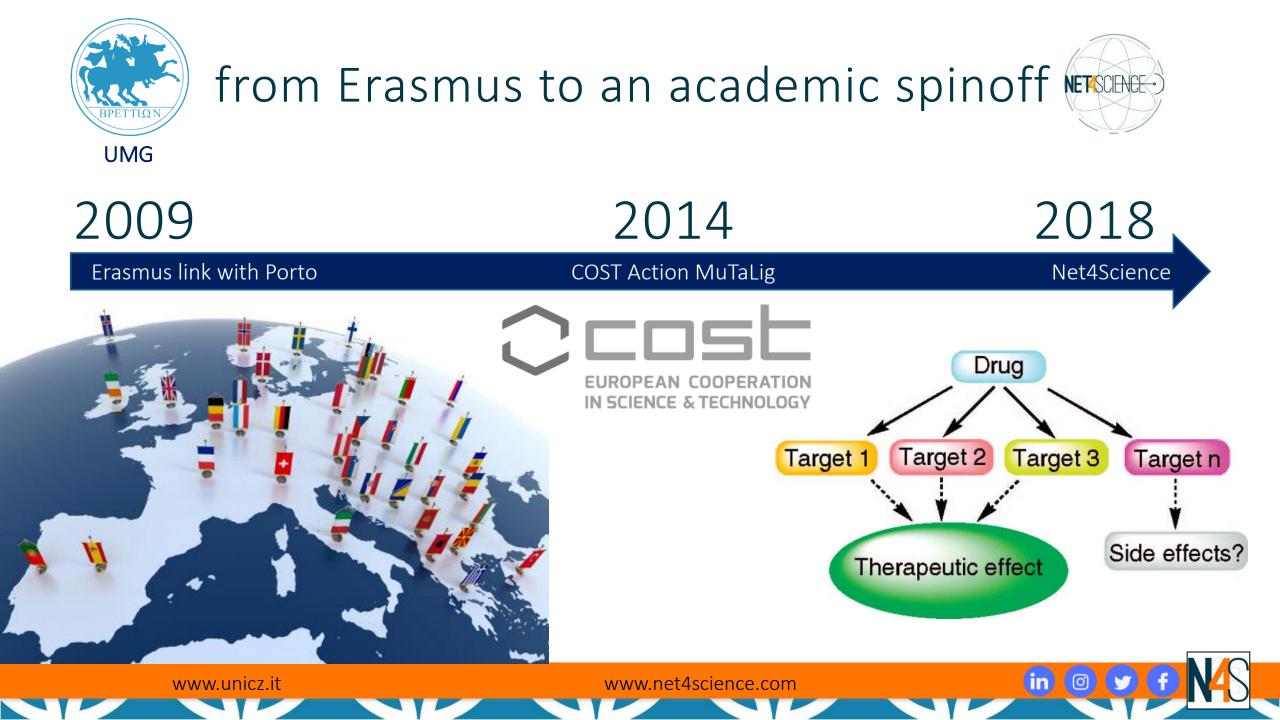
alcaro@unicz.it info@net4science.com

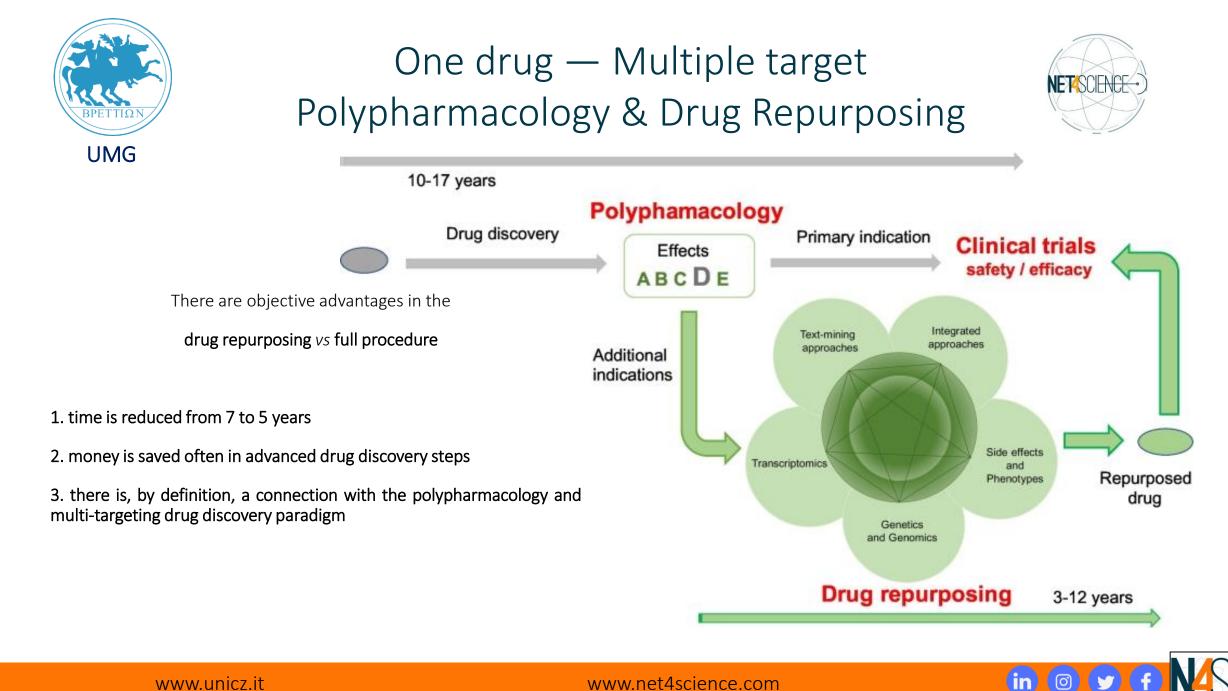
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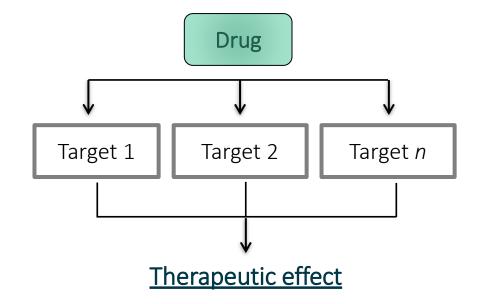


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One drug — Multiple target Polypharmacology & Drug Repurposing





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Efficacy
Drug-Drug Interaction
Chemical incompatibility
Toxicity



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Alcaro, S. and Ortuso, F.; Multi-target drug discovery: An opportunity for novel and repurposed bioactive compounds Eur J Med Chem. 2020, 192, 112188









Spin-off proposed by the Med Chem research Dipartimento di Scienze della Salute – UMG di Catanzaro



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Spinoff Profile



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Net4Science is an academic spinoff that offers services to pharma/biotech and agrifood/nutraceutical companies interested to speed up the drug discovery process or to clarify the mechanism of action of their bioactive compounds.

N4S offers the following services:



Development of specific platforms for the **multi-target** and **polypharmacology** drug discovery and applications to clients' case studies.



Valorization, using the **poly-pharmacology** and **multi-target** paradigms, of bioactive natural components from typical agrifood products, with the purpose to promote their use as functional foods or nutraceuticals.



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Training experts in the field of **multi-target** and **poly-pharmacology** field, by means of formative events, meeting and schools.





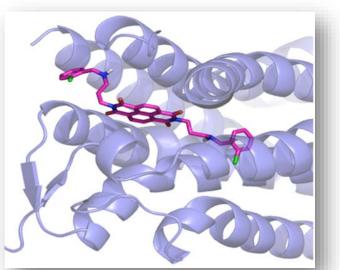


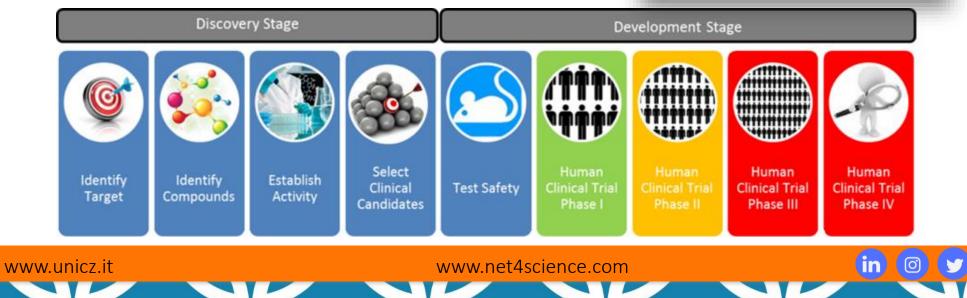






The preclinical services are based on a virtual platform specifically created for the client(s). It is based on the concept of Chemotheca, developed by our research team within the COST Action MuTaLig and designed to speed-up the **multi-target** drug discovery. Expected applications, manly against complex diseases, are related to **novel** identification bioactive **multi-target agents** or to the **drug repurposing**.











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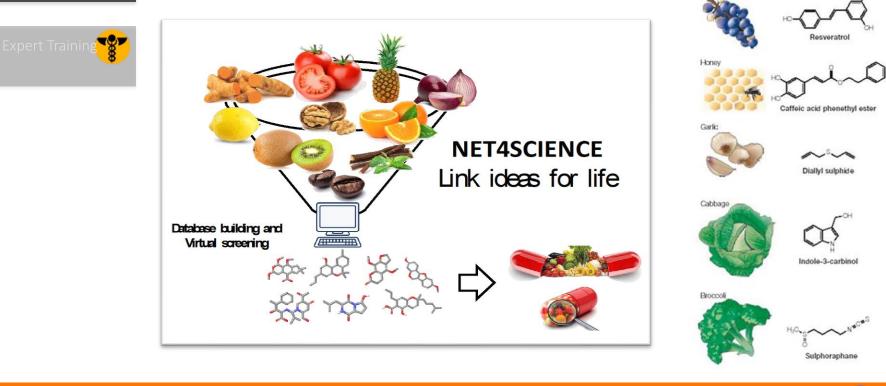
Pharma-Biotech

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The agrifood/nutraceuticals world is often not characterized by hi-quality research and certification features. **Net4Science** proposes to companies and public institutions to support the identification and valorization of natural components by means of the **multi-target** and **poly-pharmacology** paradigm. The expected applications can involve typically Mediterranean, Exotic and Asian natural sources.

Grapes



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the-art scientific knowledge maturing in the last few years.

There are no experts in the fields of **multi-target** and **poly-pharmacology**. Masters

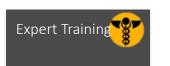
and specific PhD programs require the cooperation among Universities, Private and Public institutions. **Net4Science** will promote this network focusing on the state-of-



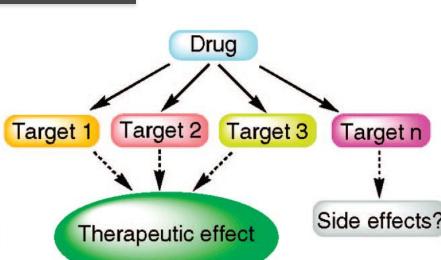
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Agri-food Nutraceuticals



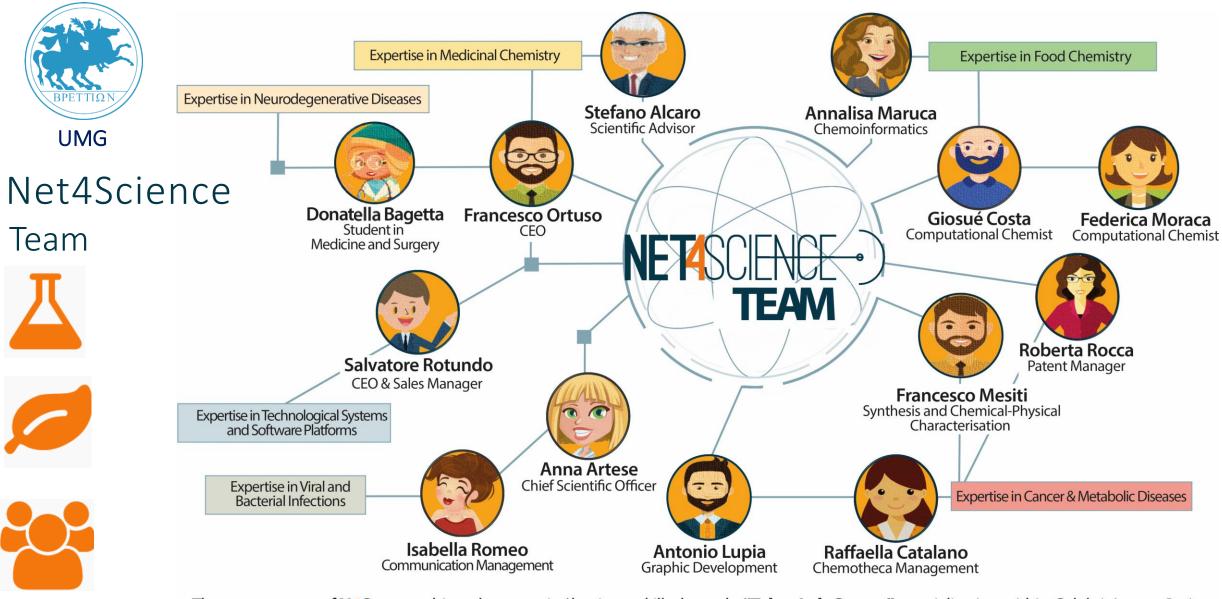
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The components of N4S team achieved economic / business skills through "TalentLab Course" specialization within CalabriaInnova Project

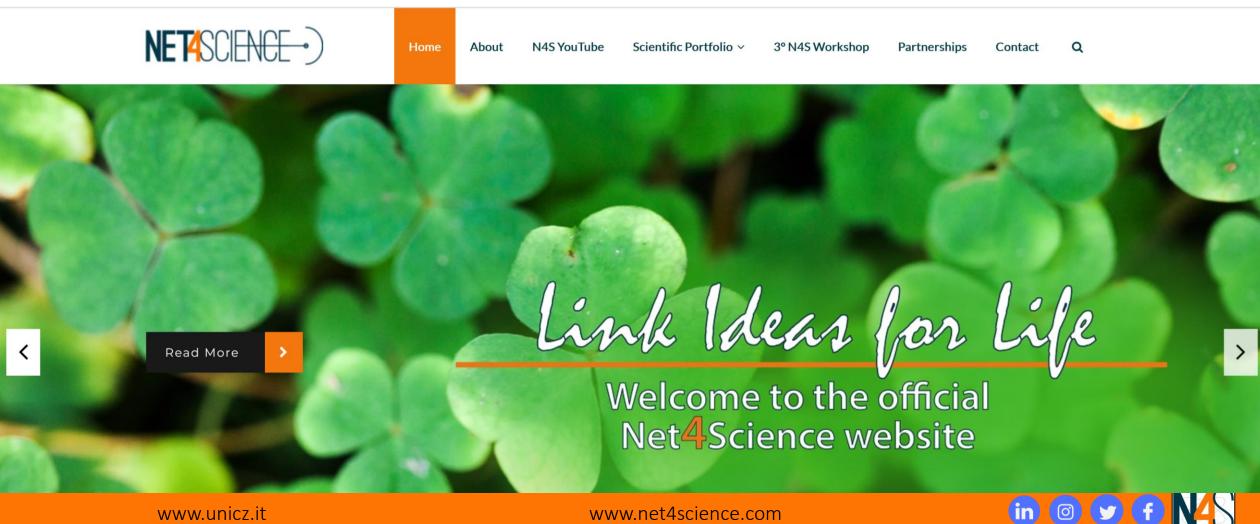
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2021: cooperation with CRISEA

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Net4Science starts formally its collaboration with CRISEA center in April 2021. The agreement is based on mutual benefits essentially for scientific and training purposes.





2021: cooperation with CRISEA

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CRISEA

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- Peer reviewed publications in nutraceutical field
- International scientific meetings
- Mobility of PON PhD students and COVID FISR project
- Dissemination event with MUR PON R&I





Peer reviewed publications in nutraceutical field





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Scientific network in 2021













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Dissemination event with PON R&I

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Net4Science has continued its experience in the dissemination and active meeting participation. **Net4Science YouTube channel** directly linked at our web site describes them. These activities started immediately after the COVID-19 emergency.



3rd Net4Science workshop:

"Ricerca scientifica e valorizzazione aziendale"

La nutraceutica nell'innovazione rurale e agroindustriale

presso la sala convegni del Centro CRISEA - Località Condoleo, Belcastro (CZ) Sabato 18 Dicembre 2021 - ore 09:30









THANK YOU!

alcaro@unicz.it info@net4science.com

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