



UNIVERSITÀ
DI SIENA
1240



**Giuseppina
Truglio**

a.y. 2025-2026



DEPARTMENT OF BIOTECHNOLOGIES, CHEMISTRY AND PHARMACY



UNIVERSITÀ
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1240

DIPARTIMENTO DI
BIOTECNOLOGIE,
CHIMICA E FARMACIA
— DBCF

Biological and chemical expertises

Multidisciplinary

*Siena is a regional, national and international focal point
for biotechnology*

Therapeutics, vaccines, diagnostics and biomaterials

Renewable energy and sustainability

DBCF is a regional district reference point

The DEPARTMENT



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Drug Design and Synthesis



E-learning International Master in
Cosmetic Science and Technology

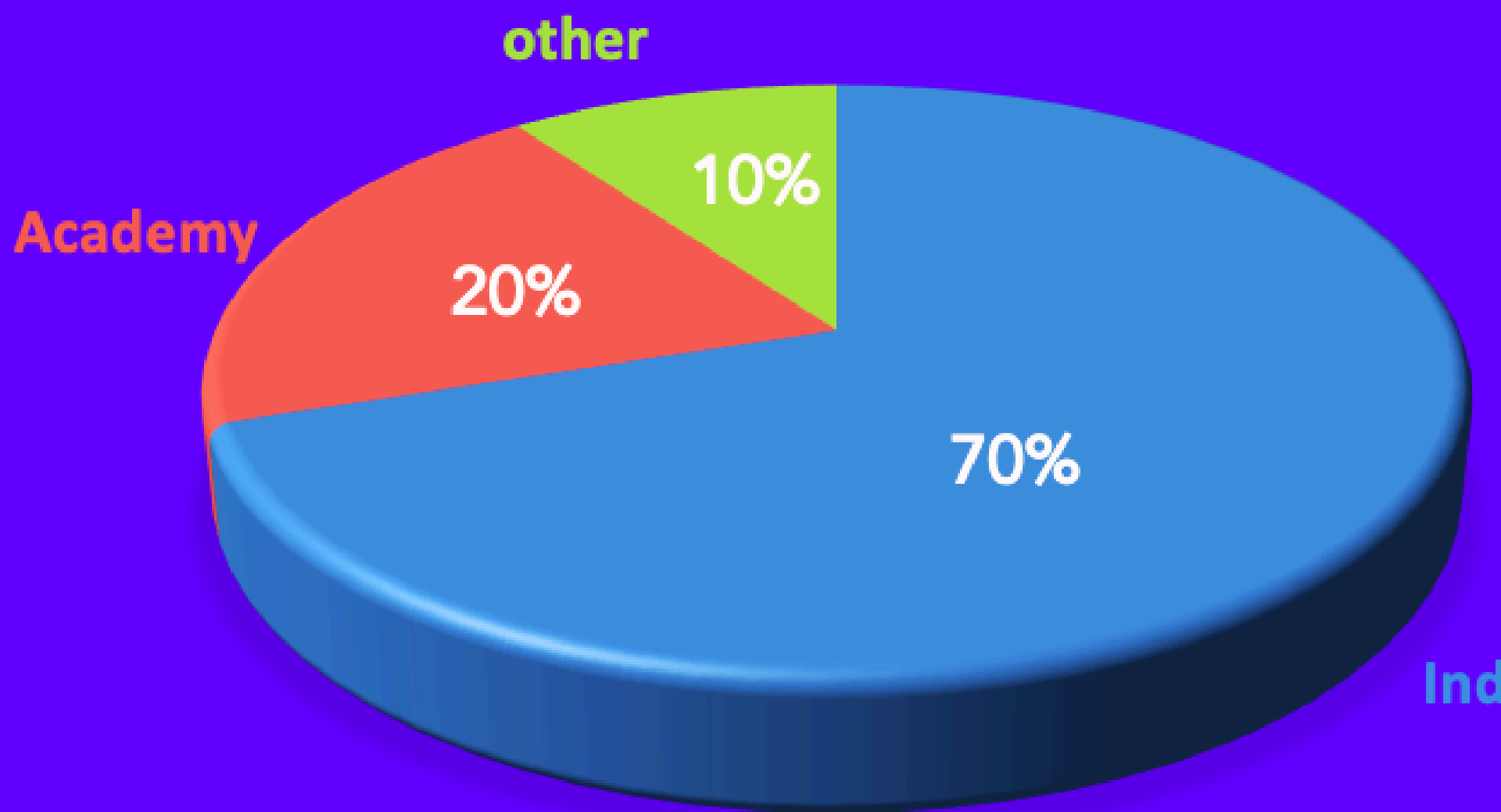
Scienza e Tecnologia Cosmetiche

Tecnologie Farmaceutiche Industriali

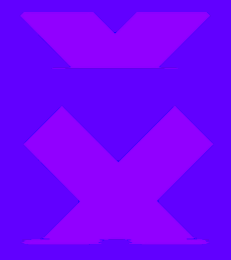
II Level Master



STAGE



Industry





EMPLOYMENT

other

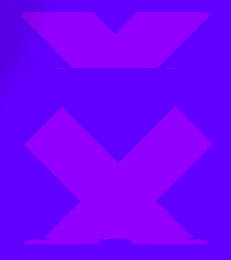
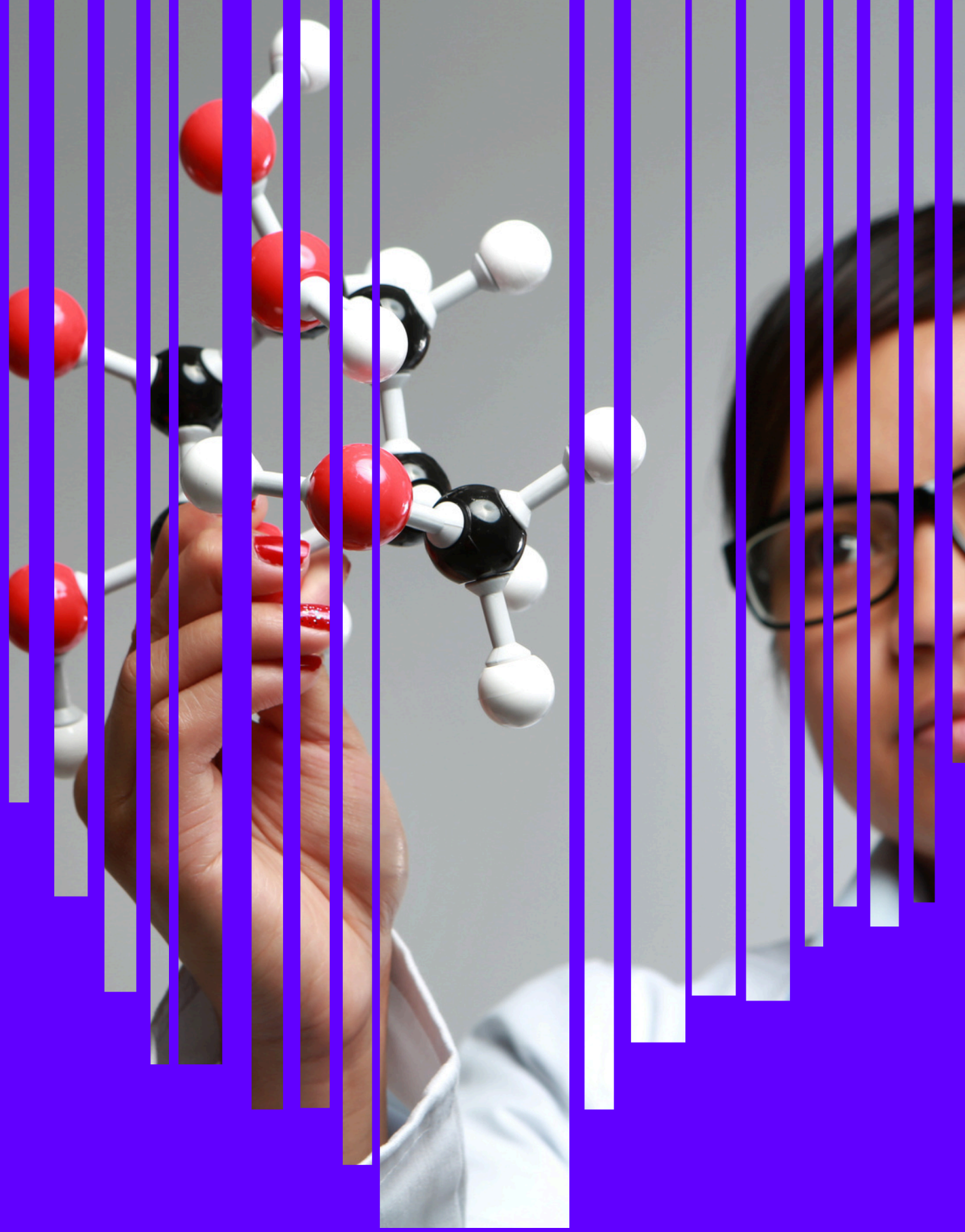
30%

45%

25%

Industry

PhD





TEACHING STAFF



Elena Petricci
DIRECTOR (UNISI)



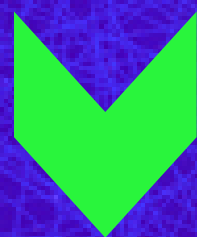
Maurizio Taddei
(UNISI)



Jean-Denis Docquier
(UNISI)



Nicola Dimitri
(UNISI)

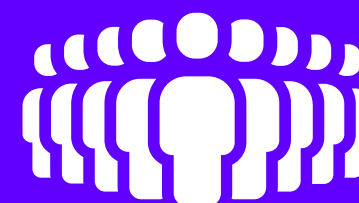


TARGET

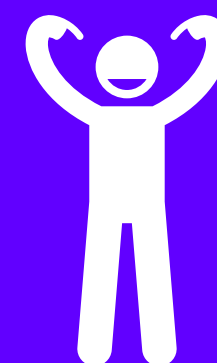
Education of high level researchers with a well-balanced theoretical and practical knowledge on chemical, analytical, biological, and biotechnological research for pharmaceutical industry



➤ international



➤ industrial and academic



➤ self-improvement



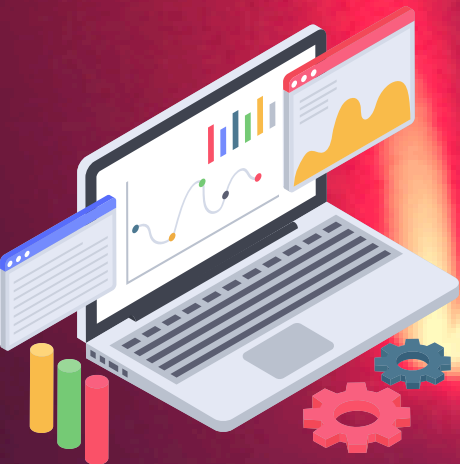
TOPICS



Sustainable Synthesis and Catalysis



Regulatory Affairs and Economy

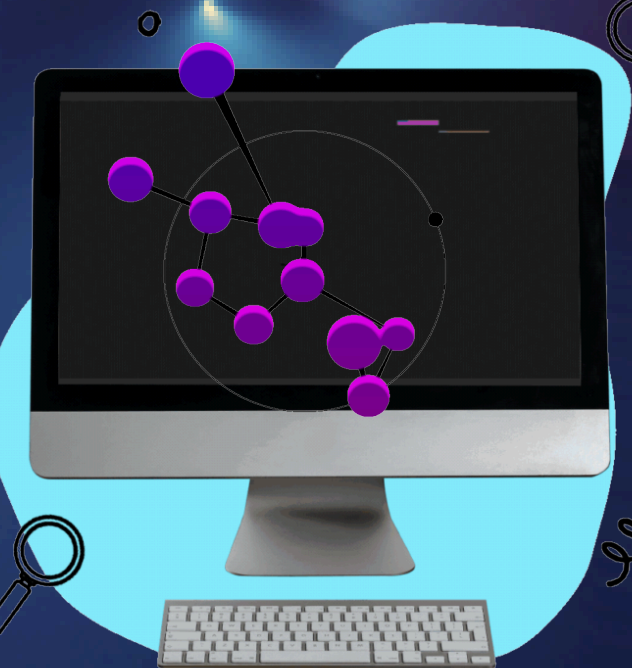


Process Analysis and Validation



Pharmacology

Computational Chemistry



Drug Design and Synthesis

Communication





CALENDAR



TO BE DEFINED

One-on-one Interviews

12/06 (14-17) Meeting online

Strumenti di comunicazione efficace personale ed interpersonale

06-08-10/07 (10-13) Meeting in person

Strumenti di Comunicazione Efficace personale ed interpersonale

inte:ligand

06/05 (9-13) Prof. Thierry Langer, University of Wien
Chemistry Driven Drug Discovery and Pharmacophores.

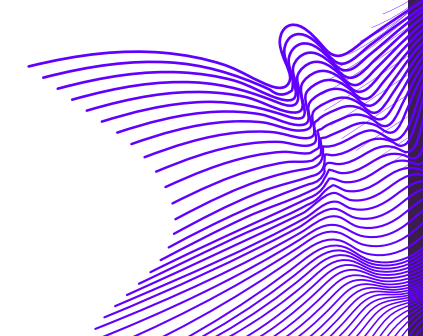
11/05 (9-13) Dr. Anna Visibelli, University of Siena
Introduction to Artificial Intelligence: Examples and Applications in Bioinformatics

18/05 (9-11) Dr. Paolo Governa, University of Parma
Essentials of Computer-Aided Drug Design: focus on ligandability and molecular similarity

20/05 (9-13) Dr. Diego Fiorucci and Dr. Iuni Trist, Evotec
Polyhedric support to Drug Design

03/06 (9-13) Dr. Veronica Ghini, University of Florence
Metabolomics and drug discovery: general principles and applications in (metallo-) drug research

23/06 (09-13) Dr. Federica Poggialini, University of Siena
Drug Like Properties in Drug Discovery





CALENDAR

6-10/07

SUMMER SCHOOL

08-09/06 (9-11) Dr. Filippo Campana, University of Perugia

Green methodologies for the synthesis of pharmaceutically active compounds



10-11/06 (9-11) Dr. Giulia Brufani, University of Perugia

Green methodologies for the synthesis of pharmaceutically active compounds: Laboratory of E-factor calculation

16/06 (9-13) Dr. Claudia Sala, Fondazione Biotechnopolo di Siena

Drug discovery against tuberculosis



03/09 (9-13) Prof. Marco Lolli and Prof. Stefano Sainas, University of Turin

The hit to lead process: focus on bioisosterism



04/09 (9-13) Prof. Marco Lolli and Prof. Stefano Sainas, University of Turin

Case history: discovery of human dihydroorotate dehydrogenase (hDHODH) inhibitors using a bioisosteric approach

CALENDAR

10-11/06 (11-13) Prof. Jean-Denis Docquier, University of Siena
Innovation in the Discovery and Development of
Antibacterial Drugs in the age of Antibiotic Resistance

09-10/09 (9-11) Prof. Daria Bottai, University of Pisa
Antibody-Antibiotic Cojugates to fight bacterial
infections: challenges and therapeutic potential

21/09 (9-13) Dr. Carla Ferreri, CNR
FREE RADICALS: FROM CHEMISTRY
TO BIOLOGY ...GENERATING
SCIENCEPRENEURSHIP

25/09 (9-13) Prof. Nicola Dimitri, University of Siena
The economics of pharmaceutical research and
development



12/06 (9-13) Dr. Fabio Rancati, Chiesi Pharmaceuticals

Approcci per lo sviluppo di chemical probe e farmaci inalatori



CALENDAR



18/06 (9-11) Dr. Simone Mantegazza, Dipharma Francis

From Route Design to Scale-Up: R&D Challenges in API Synthesis

18/06 (11-13) Dr. Chiara Vladiskovic, Dipharma Francis

Polymorphism and solid state: a different challenge for the pharmaceutical industry



16/09 (11-13) Dr. Francesca Ricci, Istituto di Ricerche Farmacologiche Mario Negri

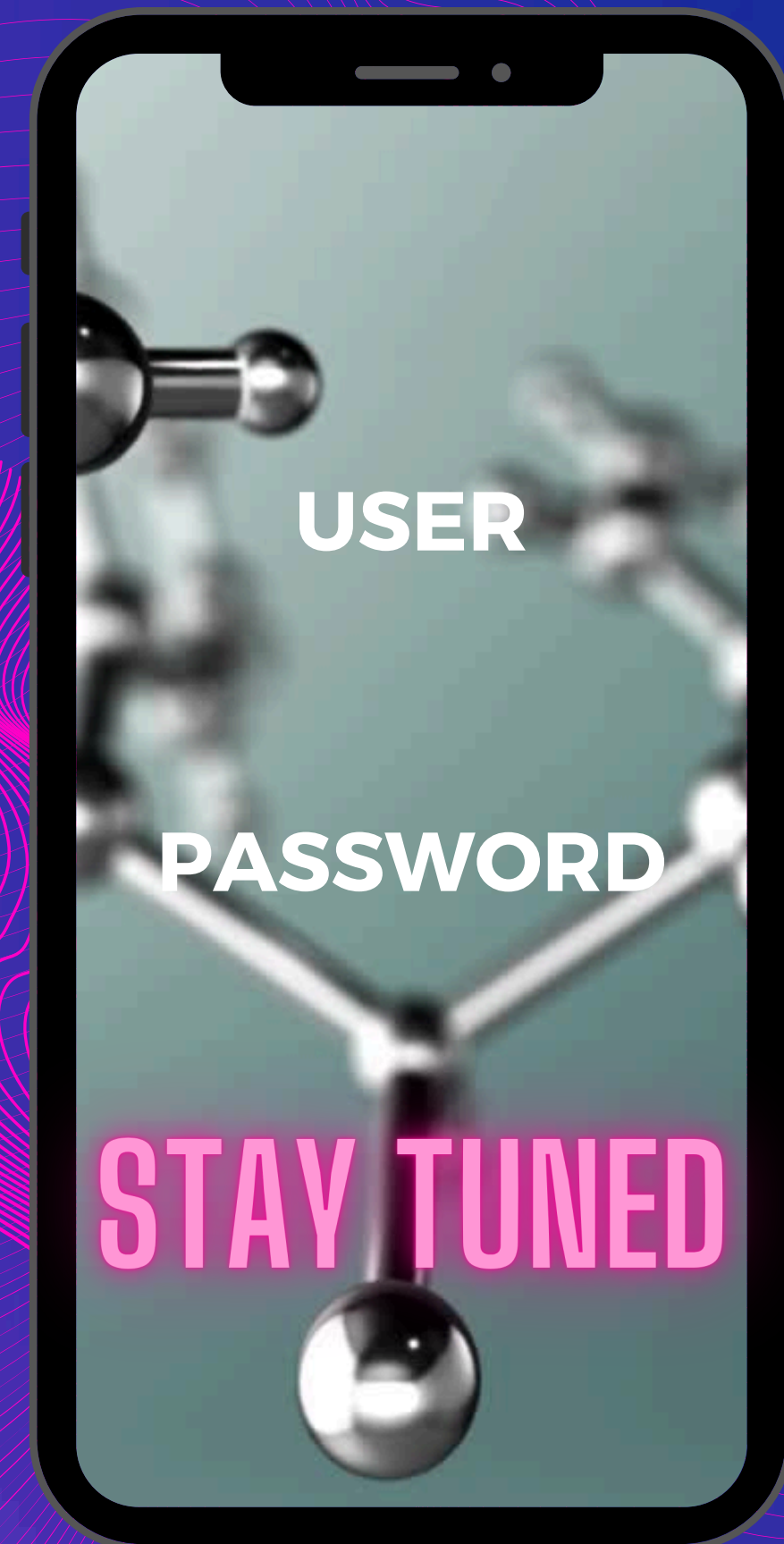
Preclinical studies in the drug discovery and development processes





Educational material

[HTTPS://ELEARNING.UNISI.IT/](https://elearning.unisi.it/)



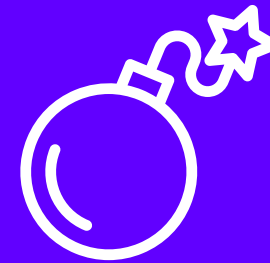


Organization



ATTENDANCE

80% of the lessons



STAGE

625 h



STAGE





HELP!

Elena Petricci

**Giuseppina
Truglio**

MDDS@UNISI.IT

**Thanks for your
attention**