

Open your mind



Let your fantasies unwind

Isabella Saggio

www.saggiolab.com

Lets visit the web site together

Getting to know each other

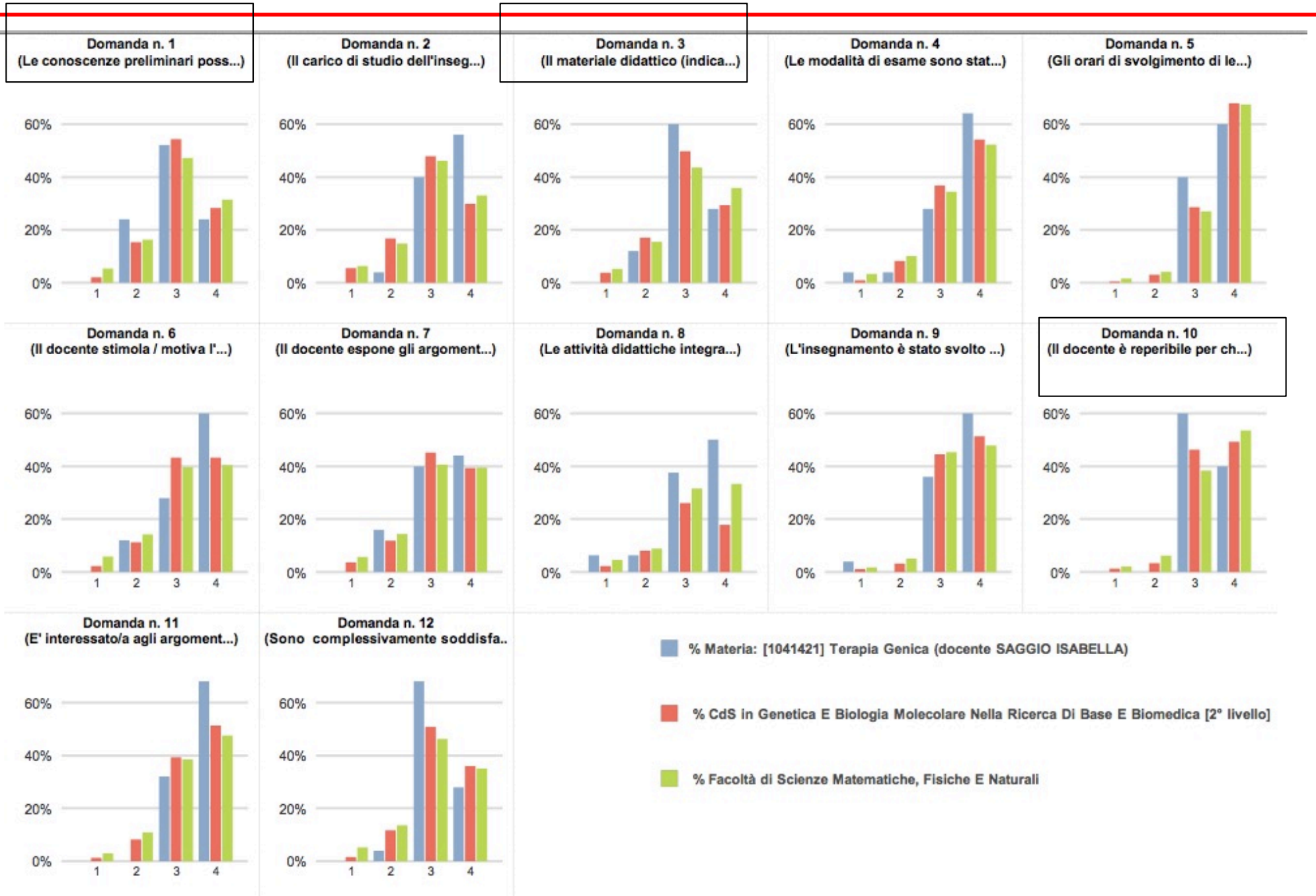
Done (exams)

To be done (exams)

Why do you want to do gene therapy

What to expect

Let's do better



YOUR FUTURE

- Internationalization:
- Paris Diderot Erasmus and DDIF (www.saggiolab.com)
- Singapore NTU
- Science journalism: www.mastersgp.it
- One health master
- Thesis and PhD requests

QUESTIONS?

Course: GT

The course will focus on the basic principles of gene and cell therapy, in a clinical and biological perspective. The course is aimed at providing the basic knowledge on gene transfer and gene editing (e.g. CrisprCas9) systems, based on viral and non viral vector systems, including liposome, AAV, adenoviral, lentiviral, retroviral and herpesvirus based vectors. Untargeted and targeted gene and stem cell therapy approaches for treatment of human diseases, including cystic fibrosis, muscular dystrophy, bone dysplasias, immunodeficiencies, premature aging syndromes and cancer will be analyzed. Preclinical and clinical data will be discussed. The course will include a practical section for the development of a critical view on applied research.

Attendance is encouraged.

DATA (GG/MM/AAAA)**lezioni GT serra I lu me 14-16**

02/10/23	1- intro
11/10/23	project work theory
16/10/23	2- clinical trial
18/10/23	3- non viral
23/10/23	4 -non viral and start adeno
25/10/23	5-adeno -6 adeno bis
30/10/23	project work
06/11/23	6- adeno onyx-project work
08/11/23	project work
13/11/23	7-complete adeno onyx
15/11/23	8 -retro e 9-retrobis
20/11/23	project work
22/11/23	10-lenti e 11-lenti bis
27/11/23	12-aav 13-crispr
29/11/23	project work
04/12/23	project work
december week	4 seminars
december week	poster discussion

Course: GT

Texts

- **Advanced Textbook on Gene Transfer, Gene Therapy and Genetic Pharmacology World Scientific Scherman 2014**
 - **Stem cell: biology and engineering / Puc Van Pham. Springer. 2018 *ebook***
 - **Gene Therapy in Neurological Disorders 1st Edition, *Kindle Edition***
 - **Cell and Gene Therapies (Advances and Controversies in Hematopoietic Transplantation and Cell Therapy) 1st ed. 2019 Edition, *Kindle Edition***

 - Gene and cell therapy : therapeutic mechanisms and strategies / edited by Nancy Smyth Templeton
 - The development of human gene therapy / edited by Theodore Friedmann
 - Gene therapy: principles and applications / edited by Thomas Blankenstein
 - Cancer gene therapy / edited by David T. Curiel, Joanne T. Douglas
 - Concepts in genetic medicine / ed. by Boro Dropulic, Barrie Carter
- www.saggiolab.com; psw 2013/2014

Exam:

Poster presentation for people attending

Written or online exam for people not attending

Project

Subjects:

theme I: Aging

theme II: Cancer

Phase 1: background

Phase 2: project presentation

Prepare poster , in the notes insert the text

Presentation and tutoring during the course

Project outline

- abstract
- Background
- Objectives
- Experimental plan detailed
- Pitfalls and solutions
- Materials and costs
- Examples on saggiolab.com

Gene Therapy

Modified from E.W.F.W. Alton, London ESGT Meeting 99

