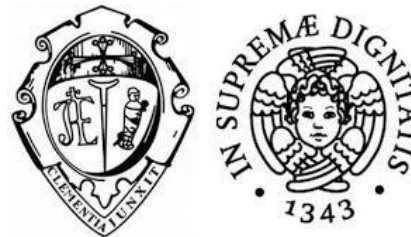


Centro Pisano Flash Radiotherapy



✓ A dedicated Flash Device

✓ A Multidisciplinary team

CPFR MULTIDISCIPLINARY TEAM



Funding Grant

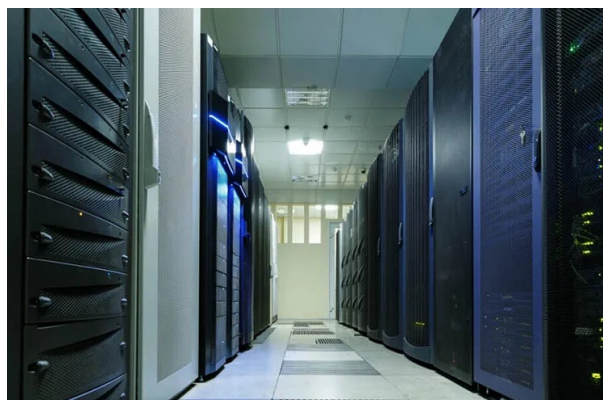
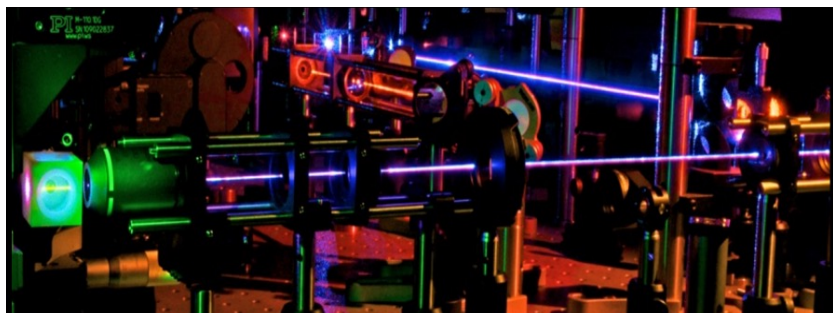
AOO "CLE" - Prot.: 0104712/2021 del 06/09/2021 -
Convenzioni - 385/2021



Flash RadioBio Lab



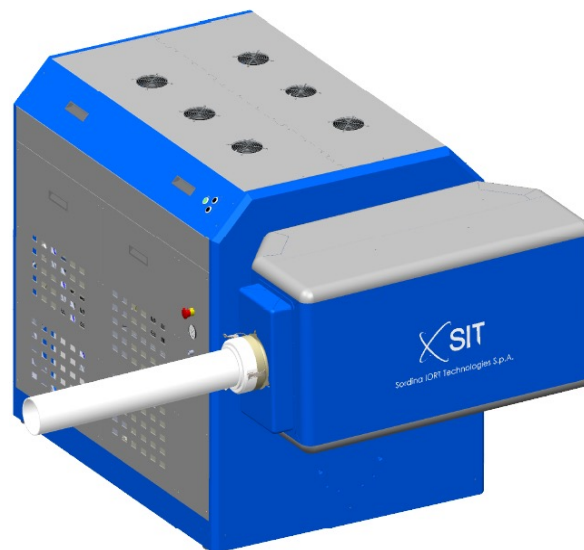
**Imaging Core-facilities
for in vitro and in vivo exps**



Pisa University Green Data Center

- ✓ FAIR Data: storage & management
- ✓ Numerical Codes: shared -repository
- ✓ High Performance Computing

CPFR Facilities



Triode-Gun- based EF LINAC

Quantitative experiments evaluating one beam parameter at a time keeping unchanged all the others

Switch from CONV to Flash keeping the experimental setup unchanged

- Decrease of **experimental uncertainties**

Evaluation of beam parameters on FE changing one parameter at a time

- **Variation of the pulse size keeping fixed the dose-per-pulse to study the dependence from the IDPP (instantaneous dose-per-pulse)**
- **Variation of the irradiated volume keeping fixed the dose-per-pulse to study volume effect**