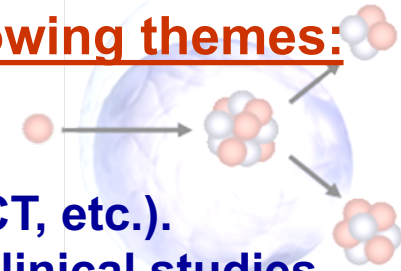


Medical Physics

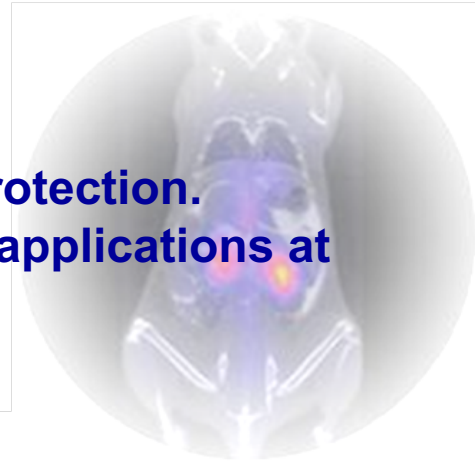
The research projects are focused under the following themes:

- Dosimetry in diagnostics and treatments.
- Medical imaging applications (MRI, CT, US, PET, SPECT, etc.).
- Mathematical modeling of physiological systems in clinical studies.
- Emerging solutions for dose and quality assurance in radiology.



In addition to academic research, we are engaged in:

- Practical training of specializing hospital physicists (HP).
- Lectures and teaching in medical physics and radiation protection.
- Management of research projects in medical physics and applications at Helsinki University Hospital (HUH).
- Developing clinical physics support services.



Majority of the PhD students get their scientific training parallel to their professional training for a HP degree. Due to the well recognized and appreciated profession of HPs, the RC is able to recruit talented young candidates and guide them also to research.



Medical Physics research is conducted by dedicated researchers consisting of physicists, chemists, engineers and physicians from the

✓ **University of Helsinki (UH)**

Department of Physics
Department of Chemistry and
Centre for Drug Research (CDR)

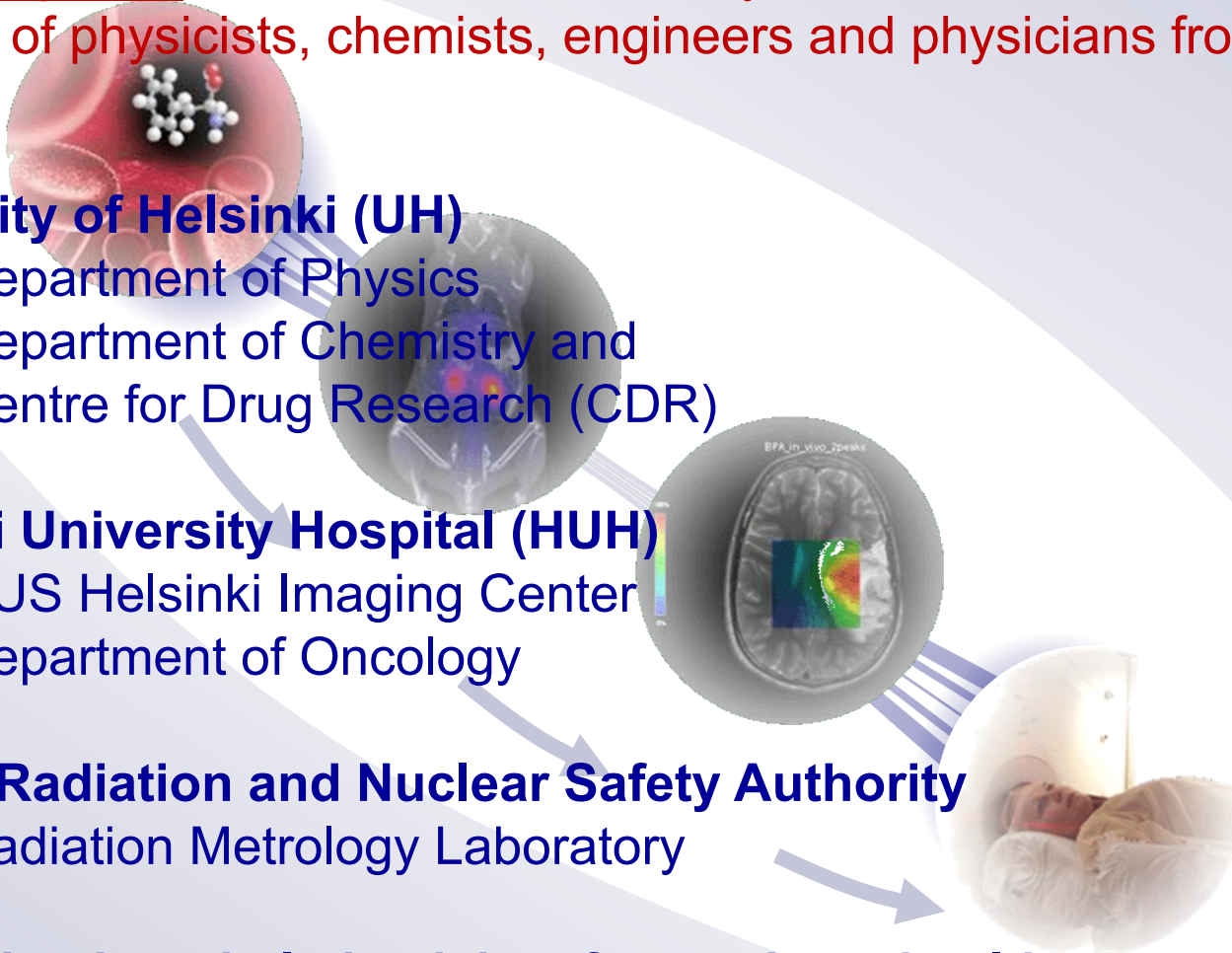
✓ **Helsinki University Hospital (HUH)**

HUS Helsinki Imaging Center
Department of Oncology

✓ **STUK - Radiation and Nuclear Safety Authority**

Radiation Metrology Laboratory

✓ **Consulting hospital physicists from private health care companies**



LuK – ja gradu- sekä vk-ohjaus

Prof. Sauli Savolainen

Fysiikan osaston lääketieteellisen fysiikan dosentteja (mm.), jotka voivat ohjata alan opinnäytetöitä:

- Aki Kangasmäki, Doctares syöpäsairaala
- Paula Toroi, STUK
- Liisa Porra, HUS
- Mika Korttesniemi, HUS
- Outi Sipilä, HUS
- Jaana Perkola, HUS
- Touko Kaasalainen, HUS
- Jani Keryliläinen, TYKS

ja tohtoreita (mm.)

- Tiina Seppälä, HUS
- Marjut Timonen, HUS
- Linda Kuusela, HUS
- Jouni Uusi-Simola, HUS
- Juha Peltonen, HUS
- Anne-Mari Vitikainen, HUS
- Lauri Lehmonen, HUS