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FP7 - Euratom (2007 - 2011) NF & RP - Medical uses of radiation

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European Commission
Research DG - Directorate J: Energy (Euratom)
Unit J2: Fission

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FP7 EC / **Euratom** Programme Specific programmes (2007 – 2013 / **2007 – 2011**)

- **Cooperation** - Collaborative research
 - **Ideas** - Frontier research
 - **People** - Human potential
- **Capacities** - Research capacities

+

Euratom - Nuclear research and training

* Fusion energy - ITER

* Nuclear Fission and Radiation Protection

+

JRC - non nuclear / nuclear research activities





FP7 EC / Euratom Budget

EC Programme (2007-2013):

50 521M Euro

- **Cooperation - 32 413M Euro**
- **Ideas - 7 510M Euro**
- **People - 4 750M Euro**
- **Capacities - 4 097M Euro**
- **JRC Non nuclear research activities - 1 751M Euro**

Euratom Programme (2007-2011):

2 751M Euro

- **Fusion Energy Research - 1 947M Euro**
- **Nuclear Fission and Radiation Protection - 287M Euro**
- **JRC Nuclear research activities - 517M Euro**

Euratom Programme (2011 – 2013)

1 310M Euro

Total

54 582M Euro

⇒ *Annual budget:*
~ 40% increase in average annual EU R&D budget compared with FP6





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FP7 - EURATOM

Nuclear Fission & Radiation Protection (2007- 2011)

Area of Activities

- **Management of radioactive waste**
 - Geological disposal and Partitioning & Transmutation
- **Reactor systems**
 - Nuclear installation safety and Advanced nuclear systems
- **Radiation protection**
- **Infrastructure**
- **Human resources, mobility and training**





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FP7 - EURATOM Radiation Protection *Specific Programme Activities* (2007 – 2011)

- Quantification of risks for low and protracted exposures
- **Medical uses of radiation**
- Emergency management and rehabilitation
 - (Malevolent uses of radiation or radioactive material)*
 - *Link with EC – Security Programme (Cooperation)*
- Other topics *(e.g. natural radiation, radioecology, protection of the environment, dosimetry, occupational exposure, risk governance, etc.).*





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Medical uses of radiation

Objectives

- enhance the **safety and efficacy** of medical uses of radiation in diagnosis and therapy (including nuclear medicine) through new technological developments and
- achieving a **proper balance** between the benefits and risks of radiation





FP7 - EURATOM Work Programme *Status 1st Call Fission - 2007*

Programme specific:

- Call published end Dec. 06 > Deadline 2nd May 07
- 57 proposals received > Budgeted (49M€) c. 4 times oversubscribed
- Evaluations end of May 07 > Ranking list prepared > negotiation (for ~ 15 proposals) now in progress

Area specific : RP - Medical uses of radiation

- 28 proposals received for RP > evaluated 25 proposals incl. 18 proposals for *"Medical uses of radiation"* (dosimetry, diagnosis, nuclear medicine, radiation therapy)
- ⇒ 4 proposals are under negotiation now > none in the field of radiation therapy





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FP7- EURATOM Work Programme *Radiation Protection*

2nd Call Fission - 2008

- ***Quantification of risks for low and protracted exposures***
 - * *Data bases and tissue banks*

- ***Medical uses of radiation***
 - * *The risk of early and late health effects from the use of radiation therapy*





WP 2008 (Draft)

Topic: Risk of early & late health effects from the use of radiation therapy

Scope

- Assessment of the **distribution of doses** in normal/healthy tissues resulting from existing & emerging therapy approaches & of the **risks of early/late health effects** *{based on existing radiobiological knowledge, no new radio-biological research should be proposed}*
- robust treatment of the **uncertainties** in these risk estimates
- assessment of the potential for **reducing doses** to normal/healthy tissues (and related risks)





WP 2008 (Draft)

***Topic: Risk of early & late health effects from
the use of radiation therapy***

Scope

- **development** & dissemination of a **broadly applicable method** for **assessing** the **doses and related risks** of early/late health effects in normal/healthy tissues from **existing & emerging therapy approaches** (effects on the foetus, infants, children & adults should be considered)

- ⇒ *Successful proposal should be **multi-disciplinary** & exploit **synergies** between expertise in radiation sciences (i.e. dosimetry & radiobiology)*

- ⇒ *establish **links** with clinicians & manufacturers*





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WP 2008 (Draft)

*Topic: Risk of early & late health effects from
the use of radiation therapy*

Funding scheme

One small or medium-scale **Collaborative project** (< 3M€)

Expected impact

- **Quantification** of early and late health risks to normal / healthy tissues from existing & emerging techniques for radiation therapy
- as input to sound **judgements** on their application and optimisation





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WP 2008 - Status

- In interservice consultation
- Sent to Advisory Committee for comments
- Formal adoption by COM: End October?

• **Call Fission-2008:**

- Call & WP published: 20 Nov. 2007 (TBC)
- Deadline: 15 April 2008 (TBC)





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Information

- EU research: <http://ec.europa.eu/research/>
- 7th EC Framework Programme & Euratom:
http://ec.europa.eu/research/future/index_en.cfm
http://cordis.europa.eu/fp7/euratom/fission_en.html
- Access to programmes and calls:
http://cordis.europa.eu/fp7/home_en.html

or via:

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Thank you

