

# EURADOS Strategic Research Agenda



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## EURADOS STRATEGIC RESEARCH AGENDA: VISION FOR DOSIMETRY OF IONISING RADIATION

W. Rühm<sup>1,\*</sup>, E. Fantuzzi<sup>2</sup>, R. Harrison<sup>3</sup>, H. Schuhmacher<sup>4</sup>, F. Vanhavere<sup>5</sup>, J. Alves<sup>6</sup>, J. F. Bottollier-Depois<sup>7</sup>, P. Fattibene<sup>8</sup>, Z. Knežević<sup>9</sup>, M. A. Lopez<sup>10</sup>, S. Mayer<sup>11</sup>, S. Miljanić<sup>9</sup>, S. Neumaier<sup>4</sup>, P. Olko<sup>12</sup>, H. Stadtmann<sup>13</sup>, R. Tanner<sup>14</sup> and C. Woda<sup>1</sup>

<sup>1</sup>Helmholtz Center Munich, Institute of Radiation Protection, Neuherberg, Germany

<sup>2</sup>Radiation Protection Institute, ENEA, Bologna, Italy

<sup>3</sup>University of Newcastle, Newcastle, UK

<sup>4</sup>Physikalisch Technische Bundesanstalt (PTB), Braunschweig, Germany

<sup>5</sup>Belgian Nuclear Research Centre (SCK-CEN), Mol, Belgium

<sup>6</sup>Instituto Superior Técnico (IST), CTN, Lisboa, Portugal

<sup>7</sup>Institut de Radioprotection et de Sûreté Nucléaire (IRSN), Fontenay-aux-Roses Cedex, France

<sup>8</sup>Istituto Superiore di Sanità (ISS), Rome, Italy

<sup>9</sup>Ruder Bošković Institute (RBI), Zagreb, Croatia

<sup>10</sup>Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Madrid, Spain

<sup>11</sup>Paul Scherer Institut (PSI), Villigen, Switzerland

<sup>12</sup>Instytut Fizyki Jądrowej (IFJ), Krakow, Poland

<sup>13</sup>Seibersdorf Labor GmbH, Seibersdorf, Austria

<sup>14</sup>Public Health England, Chilton, Didcot, UK

Ref. 1: "... could serve as a reference for possible research topics ... which could potentially bear academic and practical significance."

Ref. 2: "... the paper identifies all relevant research needs in radiation dosimetry ... good reference to justify future research projects. "

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**Vision 1** – Towards Updated Dose Concepts and Quantities

e.g., nanodosimetry,  
incorporated alpha-emitters

**Vision 2** - Towards Improved Radiation Risk Estimates  
Deduced from Epidemiological Cohorts

e.g., Techa River population  
with mixed external and  
internal exposures

**Vision 3** - Towards an Efficient Dose Assessment in  
Case of Radiological Emergencies

e.g., incorporation after dirty  
bomb explosion, triage

**Vision 4** - Towards an Integrated Personalized Dosimetry  
in Medical Applications

e.g., diagnostics and  
therapy in nuclear medicine

**Vision 5** - Towards an Improved Radiation Protection  
of Workers and the Public

e.g., DTPA therapy,  
USTUR example

- Each vision includes a number of scientific „challenges“
- Each of these challenges includes a number of „research lines“

+ **Separate Chapter on Training and Education**

+ **Separate Chapter on Harmonisation and Practice**

**Internal Dosimetry  
needed everywhere!**