

Relative Biological Effectiveness

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Recent Publications on Relative Biological Effectiveness:



- [\[Present Status of Carbon Ion Radiotherapy for Malignant Tumors.\]](#)
Between June 1994 and February 2009, a total of 4, 504 patients with... 19th November, 2009
Research Center for Charged Particle Therapy, National Institute of- Gan To Kagaku Ryoho. 2009 Nov;36(11):1795-1800.
- [No evidence for a different RBE between pulsed and continuous 20 MeV protons.](#)
To obtain greater insight into the future potential of tumor radiotherapy... 17th November, 2009
Klinikum Rechts der Isar, Department of Radiation Oncology, Technische- Radiat Res. 2009 Nov;172(5):567-74. ([DOI Direct Link](#))
- [Comparison between PENELOPE and electron Monte Carlo simulations of electron fields used in the treatment of conjunctival lymphoma.](#)
For the treatment of conjunctival lymphoma in the early stages, external... 11th November, 2009
NCTeam, Strahlenklinik, Universitätsklinikum Essen, Hufelandstr. 55, Essen- Phys Med Biol. 2009 Sep 21;54(18):5469-81. Epub 2009 Aug 26. ([DOI Direct Link](#))
- [Contrast-enhanced radiotherapy: feasibility and characteristics of the physical absorbed dose distribution for deep-seated tumors.](#)
Radiotherapy using kilovoltage x-rays in conjunction with contrast agents... 11th November, 2009
Centro de Investigacion y de Estudios Avanzados del Instituto Politecnico- Phys Med Biol. 2009 Sep 21;54(18):5411-25. Epub 2009 Aug 21. ([DOI Direct Link](#))
- [Response of human hematopoietic stem and progenitor cells to energetic carbon ions.](#)
PURPOSE: To characterise the radiation response of human hematopoietic... 10th November, 2009
GSI, Biophysics, Darmstadt, Germany.- Int J Radiat Biol. 2009 Nov;85(11):1051-9.
- [DNA double-strand break signalling: X-ray energy dependence of residual co-localised foci of gamma-H2AX and 53BP1.](#)
PURPOSE: The application of ionising radiation for medical purposes... 10th November, 2009
Institute of Radiation Physics, Forschungszentrum Dresden-Rossendorf,- Int J Radiat Biol. 2009 Nov;85(11):1042-50.
- [Distribution of uranium in drinking water and associated age-dependent radiation dose in India.](#)
Exposure due to natural radiation is of particular importance because it... 6th November, 2009
Environmental Assessment Division, Bhabha Atomic Research Centre, Trombay,- Radiat Prot Dosimetry. 2009;136(2):108-13. Epub 2009 Aug 21. ([DOI Direct Link](#))
- [Comment on "Mammography-oncogenecity at low doses".](#)
The neoplastic transformation of human hybrid CGL1 cells is affected by... 31st October, 2009
- J Radiol Prot. 2009 Sep;29(3):457-9.

- [The RBE of low-LET radiations.](#)
*Exposure due to natural radiation is of particular importance because it...*31st October, 2009
- J Radiol Prot. 2009 Sep;29(3):445-47; author reply 447-9. Epub 2009 Aug ([DOI Direct Link](#))
- [THE RBE OF 3.4 MeV {alpha}-PARTICLES AND 0.565 MeV NEUTRONS RELATIVE TO 60Co {gamma}-RAYS FOR NEOPLASTIC TRANSFORMATION OF HUMAN HYBRID CELLS AND THE IMPACT OF CULTURE CONDITIONS.](#)
*The neoplastic transformation of human hybrid CGL1 cells is affected by...*16th October, 2009
Abteilung Nuklearmedizin im Zentrum Radiologie, Universitat Gottingen,- Radiat Prot Dosimetry. 2009 Oct 14. ([DOI Direct Link](#))
- [Biological characteristics of carbon-ion therapy.](#)
*PURPOSE: Radiotherapy using charged and/or high-linear energy transfer...*16th October, 2009
Medicine and Biology Division, Gunma University Heavy Ion Medical Center,- Int J Radiat Biol. 2009 Sep;85(9):715-28. ([DOI Direct Link](#))
- [Radiation dose for body CT protocols: variability of scanners at one institution.](#)
*OBJECTIVE: The objective of our study was to determine, using an...*15th October, 2009
Department of Radiology, Duke University Medical Center, Erwin Rd., Box- AJR Am J Roentgenol. 2009 Oct;193(4):1141-7. ([DOI Direct Link](#))
- [Estimation of errors associated with use of linear-quadratic formalism for evaluation of biologic equivalence between single and hypofractionated radiation doses: an in vitro study.](#)
*PURPOSE: To investigate the reliability of the linear-quadratic (LQ)...*22nd September, 2009
Department of Radiology, Nagoya City University Graduate School of Medical- Int J Radiat Oncol Biol Phys. 2009 Oct 1;75(2):482-8. ([DOI Direct Link](#))
- [Carbon-ion beam irradiation effectively suppresses migration and invasion of human non-small-cell lung cancer cells.](#)
*PURPOSE: Control of cancer metastasis is one of the most important issues...*22nd September, 2009
Department of Radiation Oncology, Osaka University Graduate School of- Int J Radiat Oncol Biol Phys. 2009 Oct 1;75(2):475-81. ([DOI Direct Link](#))
- [Don't squeeze hypofractionated schedules into too-short overall times.](#)
*PURPOSE: Control of cancer metastasis is one of the most important issues...*22nd September, 2009
- Int J Radiat Oncol Biol Phys. 2009 Oct 1;75(2):323-5. ([DOI Direct Link](#))

Relative Biological Effectiveness Patents:



- 7550752- [Hadron treatment planning with adequate biological weighting](#)
- 6001329- [Radiolabeled fusion toxins for cancer therapy](#)
- 5981504- [Genetic induction of receptors for targeted radiotherapy](#)
- 5902583- [Genetic induction of receptors for targeted radiotherapy](#)
- 5498227- [Retrievable, shielded radiotherapy implant](#)
- 5341292- [Monte Carlo based treatment planning for neutron capture therapy](#)
- 5085848- [Method of treating inflammatory diseases using a radiolabeled ferric hydroxide colloid](#)
- 5030441- [Method of making colloid labeled with radionuclide](#)
- 5008907- [Therapy x-ray scanner](#)
- 4970062- [Colloid labelled with radionuclide and method](#)
- 4733383- [Combined digital and analog timepiece and radiation monitor assembly](#)

- 4709700- [Electro convulsive therapy method](#)
- 4699751- [Neutron dosimeter](#)
- 4529884- [Spectral dosimeter](#)
- 4251744- [Pulse conversion circuit](#)
- 6043037- [Rapid method for measuring clastogenic fingerprints using fluorescence in situ hybridization](#)
- 6126909- [Process and apparatus for the production of BI-212 and a use thereof](#)
- 6132974- [Method for obtaining chromosome painting probes](#)
- 7547441- [PAI-2 conjugates for the treatment and imaging of cancer](#)
- 7268358- [Method of modulating laser-accelerated protons for radiation therapy](#)
- 7122335- [Compounds and methods to enhance rAAV transduction](#)
- 7118524- [Dosimetry for californium-252 \(.sup.252Cf\) neutron-emitting brachytherapy sources and encapsulation, storage, and clinical delivery thereof](#)
- 6635234- [Preparation and use of radium-223 to target calcified tissues for pain palliation, bone cancer therapy, and bone surface conditioning](#)
- 6551232- [Dosimetry for californium-252\(252Cf\) neutron-emitting brachytherapy sources and encapsulation, storage, and clinical delivery thereof](#)
- 6541514- [Process for the manufacture of 117Sn diethylenetriaminepentaacetic acids](#)
- 6388259- [Radiation detection method and apparatus](#)
- 6348184- [Radiopharmaceutical compositions and matrices and uses thereof](#)
- 6299873- [Method for improvement of radiation therapy of malignant tumors](#)
- 6241962- [Radiopharmaceutical compositions and matrices and uses thereof](#)
- 6201852- [Method and means for variably attenuating radiation](#)
- 6159143- [Method and device for delivery of therapeutic agents in conjunction with isotope seed placement](#)
- 6140057- [Method for detecting a pericentric inversion in a chromosome](#)
- 4092539- [Radiation monitor](#)

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