

# Radiation

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Radiation, as used in physics, is energy in the form of waves or moving subatomic particles. Radiation can be classified as ionizing or non-ionizing radiation, depending on its effect on atomic matter. The most common use of the word "radiation" refers to ionizing radiation. Ionizing radiation has enough energy to ionize atoms or molecules while non-ionizing radiation does not. Radioactive material is a physical material that emits ionizing radiation.

## Recent Publications on Radiation:



- [Metastatic liposarcoma in the jejunum causing intussusception: Report of a case.](#)  
*We report a case of metastatic liposarcoma in the jejunum manifesting as...*29th November, 2008  
Department of Surgery, Kotou General Hospital, 37 Kawasaki,- Surg Today. 2008;38(12):1129-32.  
Epub 2008 Nov 28. ([DOI Direct Link](#))
- [TGFB1 gene polymorphism Leu10Pro \(c.29T>C\), prostate cancer incidence and quality of life in patients treated with brachytherapy.](#)  
*OBJECTIVES: Transforming growth factor beta1 gene (TGFB1) variant Leu10Pro...*29th November, 2008  
Clinics of Radiation Oncology, Hannover Medical School, Carl-Neuberg-Str.- World J Urol. 2008 Nov 28. ([DOI Direct Link](#))
- [Optimization of the Contrast Mixture Ratio for Simultaneous Direct MR and CT Arthrography: an in Vitro Study.](#)  
*OBJECTIVE: This study was designed to determine the optimal mixture ratio...*29th November, 2008  
Department of Radiology and Institute of Radiation Medicine, Seoul- Korean J Radiol. 2008 Nov-Dec;9(6):520-5. ([DOI Direct Link](#))
- [Primary Penile Diffuse Large B Cell Lymphoma Treated by Local Excision Followed by Rituximab-Containing Chemotherapy.](#)  
*Primary penile lymphoma is rarely observed in cases of extranodal...*29th November, 2008  
Department of Internal Medicine, Dong-A University College of Medicine,- Acta Haematol. 2008 Nov 28;120(3):150-152. ([DOI Direct Link](#))
- [Resolving vacuum fluctuations in an electrical circuit by measuring the Lamb shift.](#)  
*Quantum theory predicts that empty space is not truly empty. Even in the...*29th November, 2008  
Department of Physics, Eidgenossische Technische Hochschule-Zurich (ETHZ),- Science. 2008 Nov 28;322(5906):1357-60. ([DOI Direct Link](#))
- [The Role of MR Imaging in Detecting Nodal Disease in Thyroidectomy Patients with Rising Thyroglobulin Levels.](#)  
*BACKGROUND AND PURPOSE: One of the dilemmas facing clinicians treating...*29th November, 2008

- University of Pennsylvania School of Medicine, Philadelphia, Pa;- AJNR Am J Neuroradiol. 2008 Nov 27. ([DOI Direct Link](#))
- [The Shrinking Thyroid: How Does Thyroid Size Change Following Radiation Therapy for Laryngeal Cancer?](#)  
*BACKGROUND AND PURPOSE: External beam radiation therapy (XRT) for head and...*29th November, 2008  
Division of Diagnostic Imaging, Department of Endocrine Neoplasia and- AJNR Am J Neuroradiol. 2008 Nov 27. ([DOI Direct Link](#))
  - [Communicating Hydrocephalus after Gamma Knife Radiosurgery for Vestibular Schwannoma: An MR Imaging Study.](#)  
*SUMMARY: Vestibular schwannomas are common, and gamma knife radiosurgery...*29th November, 2008  
Department of Radiology, University of Vermont College of Medicine,- AJNR Am J Neuroradiol. 2008 Nov 27. ([DOI Direct Link](#))
  - [MFEprimer: Multiple factor evaluation of the specificity of PCR primers.](#)  
*SUMMARY: We developed a program named MFEprimer for evaluating the...*29th November, 2008  
Beijing Institute of Radiation Medicine, State Key Laboratory of- Bioinformatics. 2008 Nov 27. ([DOI Direct Link](#))
  - [Case 37-2008 -- A 17-Year-Old Boy with a Pituitary Tumor and Skull Abnormalities.](#)  
*SUMMARY: We developed a program named MFEprimer for evaluating the...*29th November, 2008  
From the Department of Neurosurgery, Children's Hospital of Boston- N Engl J Med. 2008 Nov 27;359(22):2367-2377. ([DOI Direct Link](#))
  - [Chemoradiation for Unresectable Stage III Non-Small Cell Lung Cancer.](#)  
*Patients with unresectable stage III nonsmall cell lung cancer (T4, N3, or...*29th November, 2008  
Department of Medicine, Thoracic Oncology Service, Memorial- Semin Thorac Cardiovasc Surg. 2008 Fall;20(3):204-9. ([DOI Direct Link](#))
  - [New approaches to radiotherapy as definitive treatment for inoperable lung cancer.](#)  
*The standard curative approach for the treatment of inoperable non-small...*29th November, 2008  
Department of Radiation Oncology, Hospital of the University of- Semin Thorac Cardiovasc Surg. 2008 Fall;20(3):188-97. ([DOI Direct Link](#))
  - [Postoperative radiation therapy for non-small cell lung cancer.](#)  
*Adjuvant chemotherapy is now standard therapy following resection of large...*29th November, 2008  
Department of Therapeutic Radiology, Yale University School of Medicine,- Semin Thorac Cardiovasc Surg. 2008 Fall;20(3):184-7. ([DOI Direct Link](#))
  - [Positron emission tomography as a diagnostic tool in infection: present role and future possibilities.](#)  
*The past decade has witnessed the emergence of yet another promising...*29th November, 2008  
Division of Nuclear Medicine, Department of Radiology, Hospital of the- Semin Nucl Med. 2009 Jan;39(1):36-51. ([DOI Direct Link](#))
  - [Micro-CT studies on 3-D bioactive glass-ceramic scaffolds for bone regeneration.](#)  
*The aim of this study was the preparation and characterization of...*29th November, 2008  
Department SAIFET - Section of Physical Sciences, Polytechnic University- Acta Biomater. 2008 Nov 7. ([DOI Direct Link](#))

## BioNews Results for Radiation

- [New Radiation-Blocking Medical Garments Introduced at RSNA Meeting in Chicago](#)  
*Nanotechnology News: Nov 28 2008 10:46AM Matching: radiation*
- [Coding Connection](#)  
*Enterprise Imaging Management: Nov 28 2008 2:54PM Matching: radiation*
- [Mammogram Most Effective 12 Months After Radiation Treatment](#)

- Medical News Today: Nov 27 2008 8:50AM Matching: radiation*
- [New Radiation-Blocking Medical Garments Provide Total Protection in a Lightweight, Durable, Flexible Fabric](#)  
*Nanowerk: Nov 27 2008 9:42AM Matching: radiation*
  - [Pre-surgery radiation boosts pancreatic cancer survival](#)  
*Cancer Facts: Nov 27 2008 11:24AM Matching: radiation*
  - [Radiation Before Surgery Improves Pancreatic Cancer Outcomes](#)  
*Medical News Today: Nov 27 2008 8:51AM Matching: radiation*
  - [Radiation Before Surgery Improves Pancreatic Cancer Outcomes](#)  
*HealthNewsDigest.com: Nov 27 2008 7:24AM Matching: radiation*
  - [\[Gastrointestinal Cancer\] Postresection CA 19-9 Predicts Overall Survival in Patients With Pancreatic Cancer T](#)  
*Journal of Clinical Oncology: Nov 27 2008 2:49AM Matching: radiation*
  - [Brigham and Women's Hospital Enrolling Patients in Clinical Study to Test Non-Invasive, Radiation-Free Procedure](#)  
*Therapeutics Daily: Nov 27 2008 11:32PM Matching: radiation*
  - [Some breast cancers may resolve without treatment: Study](#)  
*Daily Herald Tribune: Nov 27 2008 10:22PM Matching: radiation*
  - [ASTRO And ACR Announce Joint Radiation Oncology Practice Accreditation Program](#)  
*Medical News Today: Nov 27 2008 11:42AM Matching: radiation*
  - [Study suggests some breast cancers may resolve without treatment](#)  
*The Record: Nov 27 2008 9:02AM Matching: radiation*
  - [Patent For Improved Cancer Therapy Device Received: New Design Would Deliver More Precise Radiation Doses At L](#)  
*Medical News Today: Nov 27 2008 8:53AM Matching: radiation*
  - [Radiation therapy before surgery cuts pancreatic cancer patients' death risk](#)  
*Webindia123: Nov 27 2008 8:31AM Matching: radiation*
  - [New Radiation-Blocking Medical Garments Introduced at RSNA Meeting in Chicago](#)  
*DiGiTAL50: Nov 27 2008 7:22AM Matching: radiation*

#### Radiation Clinical Trials:



- [Prevention of Radiation Pneumonitis After Three-Dimensional Conformal Radiation Therapy \(3D-CRT\) in Patients With Non-Small-Cell Lung Cancer](#)  
*Carcinoma, Non-Small-Cell Lung*

#### Radiation Patents:



- [7457173- Area efficient differential EEPROM cell with improved data retention and read/write endurance](#)
- [7457413- Method and device for encrypting a message](#)
- [7457425- Vehicle sound system](#)
- [7457434- Adaptively focusing extra-ocular vision prostheses](#)
- [7457441- System and method for detecting thermal anomalies](#)
- [7457443- Image guided implantology methods](#)
- [7457450- Method for recording and evaluating image data with the aid of a tomography machine](#)
- [7457451- Systems, methods and apparatus for specialized filtered back-projection reconstruction for digital tomosynthesis](#)
- [7457490- Micro-optics on optoelectronics](#)
- [7457498- Optical waveguide structure](#)
- [7457500- Large-mode-area, multimode, hybrid optical fibers and devices using same](#)
- [7457394- Device and method for inspecting objects](#)
- [7457365- Circuit arrangement having a transmitter and a receiver](#)
- [7457228- Optical information recording medium, and substrate and manufacturing method for the optical information recording medium](#)
- [7457326- Method and apparatus for coherently combining multiple laser oscillators](#)
- [7457328- Polarization methods for diode laser excitation of solid state lasers](#)
- [7457330- Low speckle noise monolithic microchip RGB lasers](#)
- [7457338- Quantum well lasers with strained quantum wells and dilute nitride barriers](#)
- [7457340- High coherent power, two-dimensional surface-emitting semiconductor diode array laser](#)
- [7457341- Low loss grating for high efficiency wavelength stabilized high power lasers](#)
- [7457344- Electric induction control system](#)
- [7457350- Communications systems and methods](#)
- [7457364- Subdimensional single-carrier modulation](#)
- [7457502- Systems and methods of cooling a fiber amplifier with an emulsion of phase change material](#)
- [7457507- Organometallic polymer material](#)
- [7457689- Process control methodologies for biofuel appliance](#)
- [7457701- Air quantity estimation apparatus for internal combustion engine](#)
- [7457714- Autocalibrated multiphase fluid characterization using extrema of time series](#)
- [7457721- Method and apparatus for measuring small displacement](#)
- [7457724- Shoes and garments employing one or more of accelerometers, wireless transmitters, processors, altimeters, to determine information such as speed to persons wearing the shoes or garments](#)
- [7457736- Automated creation of metrology recipes](#)
- [7457758- Method and apparatus for generating standardized carbon emission reduction credits](#)
- [7457816- Method for depicting an object displayed in a volume data set](#)
- [7457978- Adjustable byte lane offset for memory module to reduce skew](#)
- [7458054- Method for designing integrated circuit package and method for manufacturing same](#)
- [7457661- Catheter-based, dual coil photopolymerization system](#)
- [7457650- Portable radio communication apparatus provided with boom portion with through hole](#)
- [7457509- Light-guiding device and a method of guiding light](#)
- [7457510- Light guide member and backlight unit including light guide member](#)
- [7457543- Add/drop module for single fiber wavelength division multiplexing systems](#)
- [7457575- Fusing device, image forming apparatus, and belt](#)
- [7457577- Heat fixing member and heat fixing assembly](#)
- [7457594- Isolated sensor for an antenna](#)
- [7457619- Method for optimizing wireless data link capacity between mobile vehicles](#)
- [7457620- Off-channel beacons in a wireless network](#)
- [7457628- System and method for providing information based on geographic position](#)
- [7457633- Communication network with redirection of wireless communication](#)
- [7458056- Effective proximity effect correction methodology](#)

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