

Accuray

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Accuray's history began when John R. Adler, MD, professor of neurosurgery and radiation oncology at Stanford University Medical Center, developed the CyberKnife® System in 1987 after completing a fellowship in Sweden with Lars Leksell, MD, the founder of radiosurgery. With the CyberKnife System, Adler's vision was to develop a non-invasive robotic radiosurgery system with superior accuracy for treatment of tumors anywhere in the body. The revolutionary concept reached far beyond the practice of radiosurgery at the time, which restricted radiosurgery to the treatment of intracranial tumors. After his initial work developing the CyberKnife System, Adler together with a group from Stanford and a manufacturer of linac technology teamed up and founded Accuray, Inc. in 1990. FDA-cleared for the treatment of head, neck and upper spine tumors in 1999, the CyberKnife was the first and only radiosurgery system to combine image guidance and computer controlled robotics giving birth to the next generation in radiosurgery – intelligent robotic radiosurgery.

Recent Publications by Accuray:



- [Stereotactic body radiation therapy for liver metastases.](#)
Although resection is the standard of care for liver metastasis, 80-90% of... 24th September, 2009
Accuray Incorporated, Sunnyvale, CA, United States.- Eur J Cancer. 2009 Nov;45(17):2947-59. Epub 2009 Sep 19. ([DOI Direct Link](#))
- [A probabilistic framework based on hidden markov model for fiducial identification in image-guided radiation treatments.](#)
Fiducial tracking is a common target tracking method widely used in... 18th October, 2008
Accuray Incorporated, 1310 Chesapeake Terrace, Sunnyvale, CA 94089, USA.- IEEE Trans Med Imaging. 2008 Sep;27(9):1288-300. ([DOI Direct Link](#))
- [A fast, accurate, and automatic 2D-3D image registration for image-guided cranial radiosurgery.](#)

*The authors developed a fast and accurate two-dimensional...*10th July, 2008

Accuray Incorporated, 1310 Chesapeake Terrace, Sunnyvale, California- Med Phys. 2008 May;35(5):2180-94.

- [Robotic whole body stereotactic radiosurgery: clinical advantages of the Cyberknife integrated system.](#)
*Radiosurgery is defined as the delivery of high doses of ionising...*15th June, 2007
Accuray Europe, Paris, France.- Int J Med Robot. 2005 Jan;1(2):28-39. ([DOI Direct Link](#))
- [Specialty credentialing for R.T.s.](#)
*Radiosurgery is defined as the delivery of high doses of ionising...*26th May, 2007
Accuray Inc, Pittsburgh, PA, USA.- Radiol Technol. 2007 Mar-Apr;78(4):333-6.
- [Naming our concerns about neuroscience: a review of Bennett and Hacker's philosophical foundations of neuroscience.](#)
*Bennett and Hacker use conceptual analysis to appraise the theoretical...*9th September, 2006
- J Exp Anal Behav. 2005 Nov;84(3):683-92.
- [Designing optically tracked instruments for image-guided surgery.](#)
*Most image-guided surgery (IGS) systems track the positions of surgical...*4th August, 2004
Accuray, Inc., 1310 Chesapeake Terrace, Sunnyvale, CA 94089, USA.- IEEE Trans Med Imaging. 2004 May;23(5):533-45.
- [Angiogenesis.](#)
*Several clinical trials of therapeutic angiogenesis in patients with...*15th January, 2003
Clinical Development, Accuray, Inc., Sunnyvale, California, USA.- Rev Cardiovasc Med. 2002 Summer;3(3):138-44.

Press Releases on Accuray:

[Accuray Incorporated to Present at Piper Jaffray Healthcare Conference and J. P. Morgan Small/Mid Cap Conference](#)

23rd November, 2009 Accuray Incorporated

SUNNYVALE, Calif., Nov. 23 /PRNewswire-FirstCall/ -- Accuray Incorporated (Nasdaq: ARAY), a global leader in the field of radiosurgery, announced today that its management is scheduled to present at

[Accuray Hires General Manager for Japan](#)

13th November, 2009 Accuray Incorporated

SUNNYVALE, Calif., Nov. 13 /PRNewswire-FirstCall/ -- Accuray Incorporated (Nasdaq: ARAY), a global leader in the field of radiosurgery, announced today that Juki Hozumi has joined Accuray as General

[Accuray Incorporated to Present at Sixth Annual Lazard Healthcare Conference](#)

12th November, 2009 Accuray

SUNNYVALE, Calif., Nov. 12 /PRNewswire-FirstCall/ -- Accuray Incorporated (Nasdaq: ARAY), a global leader in the field of radiosurgery, announced today that its management is scheduled to present at

[Accuray Introduces the CyberKnife\(R\) VSI\(TM\) System](#) 1st November, 2009 Accuray

SUNNYVALE, Calif., Nov. 1 /PRNewswire-FirstCall/ -- Accuray Incorporated (Nasdaq: ARAY), a global leader in the field of radiosurgery, announced today the introduction of the CyberKnife(®) VSI(TM)

[CyberKnife to be Focus of Numerous Presentations at the American Society for Radiation Oncology \(ASTRO\) Annual Meeting](#) 30th October, 2009 Accuray Incorporated

SUNNYVALE, Calif., Oct. 30 /PRNewswire-FirstCall/ -- Accuray Incorporated (Nasdaq: ARAY), a global leader in the field of radiosurgery, announced today that 28 CyberKnife-focused abstracts have been

BioNews Results for Accuray



- [Accuray Hires General Manager for Japan](#)
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Breitbart.com: Nov 13 2009 2:30PM Matching: accuray
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PR Newswire via MSN Money: Nov 13 2009 1:39PM Matching: accuray
- [Accuray names GM for Japan](#)
Aunt Minnie: Nov 13 2009 6:54PM Matching: accuray
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Medicexchange.com: Nov 13 2009 3:56PM Matching: accuray
- [Accuray Incorporated to Present at Sixth Annual Lazard Healthcare Conference](#)
KSLA: Nov 12 2009 3:31PM Matching: accuray
- [Less brain swelling occurs with multiple sessions of SRS for common brain tumor](#)
Genetic Engineering News: Nov 4 2009 12:26AM Matching: accuray
- [Less brain swelling occurs with multiple sessions of SRS for common brain tumor](#)



Accuray Clinical Trials:

- [CyberKnife Radiosurgery For Low & Intermediate Risk Prostate Cancer: Emulating HDR Brachytherapy Dosimetry](#)

Accuray Patents:



- 4599514- [Isotopic radiation method and apparatus for measuring the resinous binder applied to a mat of glass fibers](#)
- 7103144- [Radiosurgery X-ray system with collision avoidance subsystem](#)
- 7103145- [Radiosurgery x-ray system with collision avoidance subsystem](#)
- 7154991- [Patient positioning assembly for therapeutic radiation system](#)
- 7166852- [Treatment target positioning system](#)
- 7171257- [Apparatus and method for radiosurgery](#)
- 7187792- [Apparatus and method for determining measure of similarity between images](#)
- 7204640- [Apparatus and method for registering 2D radiographic images with images reconstructed from 3D scan data](#)
- 7231076- [ROI selection in image registration](#)
- 7260426- [Method and apparatus for tracking an internal target region without an implanted fiducial](#)
- 7266176- [Workspace optimization for radiation treatment delivery system](#)
- 7046765- [Radiosurgery x-ray system with collision avoidance subsystem](#)
- 6778850- [Frameless radiosurgery treatment system and method](#)
- 6501981- [Apparatus and method for compensating for respiratory and patient motions during treatment](#)
- 4713572- [Ultrasonic transducers for on-line applications](#)
- 4730492- [Measuring the speed of ultrasound in a moving web of paper](#)
- 4733078- [Measurement of moisture-stratified sheet material](#)
- 4748906- [Air shower apparatus and method](#)
- 4766315- [Apparatus and process for measuring physical parameters of sheet material](#)
- 5074050- [Sheet-contacting thickness gauges](#)
- 5207223- [Apparatus for and method of performing stereotaxic surgery](#)
- 5427097- [Apparatus for and method of carrying out stereotaxic radiosurgery and radiotherapy](#)
- 5430308- [3-dimensional radiation dosimeter](#)
- 6144875- [Apparatus and method for compensating for respiratory and patient motion during treatment](#)
- 7280865- [Anchored fiducial apparatus and method](#)
- 7298819- [Flexible treatment planning](#)

- 7477722- [Imaging geometry for image-guided radiosurgery](#)
- 7480399- [Apparatus and method for determining measure of similarity between images](#)
- 7505037- [Direct volume rendering of 4D deformable volume images](#)
- 7505559- [Determining a target-to-surface distance and using it for real time absorbed dose calculation and compensation](#)
- 7505617- [Fiducial-less tracking with non-rigid image registration](#)
- 7522779- [Image enhancement method and system for fiducial-less tracking of treatment targets](#)
- 7552490- [Method and apparatus for patient loading and unloading](#)
- 7590219- [Automatically determining a beam parameter for radiation treatment planning](#)
- 7593505- [Method for automatic anatomy-specific treatment planning protocols based on historical integration of previously accepted plans](#)
- 7594753- [Phantom insert for quality assurance](#)
- 7426318- [Motion field generation for non-rigid image registration](#)
- 7402819- [Respiration phantom for quality assurance](#)
- 7400755- [Inverse planning using optimization constraints derived from image intensity](#)
- 7302033- [Imaging geometry for image-guided radiosurgery](#)
- 7315636- [Generation of reconstructed images](#)
- 7318805- [Apparatus and method for compensating for respiratory and patient motion during treatment](#)
- 7327865- [Fiducial-less tracking with non-rigid image registration](#)
- 7330578- [DRR generation and enhancement using a dedicated graphics device](#)
- 7352370- [Four-dimensional volume of interest](#)
- 7356120- [Integrated quality assurance for in image guided radiation treatment delivery system](#)
- 7362848- [Method for automatic anatomy-specific treatment planning protocols based on historical integration of previously accepted plans](#)
- 7366278- [DRR generation using a non-linear attenuation model](#)
- 7391849- [Energy monitoring target for x-ray dose-rate control](#)
- 7604405- [Integrated quality assurance for an image guided radiation treatment delivery system](#)

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