

- **Name:** Tatsuya Ohno
 - **Current Position & Affiliation:**
 - Professor of dept. of Radiation Oncology, Graduate School of Medicine, Gunma University
 - Director of Gunma University Heavy Ion Medical Center, Gunma University
 - **Country:** Japan
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• Educational Background:

- 1987 – 1993: School of Medicine, Gunma University, Gunma, Japan M.D. awarded 5/93
- 1997 – 1999: Department of Radiation Oncology, Graduate School of Medicine, Gunma University, Gunma Japan Ph.D. awarded 3/99

• Professional Experience:

- 1993 – 1994: Resident, Department of Radiology and Radiation Oncology, School of Medicine, Gunma University, Gunma, Japan
- 1994 – 1995: Staff, Division of Radiation Oncology, Tochigi Prefectural Cancer Center, Tochigi, Japan
- 1999 – 2001: Staff, Division of Radiation Medicine, Takasaki National Hospital, Gunma, Japan
- 2001 – 2001: Staff, Division of Radiation Oncology, Saitama Prefectural Cancer Center, Saitama, Japan
- 2001 – 2007: Senior Staff, Research Center for Charged Particle Therapy, National Institute of Radiological Sciences, Chiba, Japan
- 2007 – 2011: Associate Professor, Gunma University Heavy Ion Medical Center, Gunma University, Gunma, Japan
- 2010 – 2020: Medical Director, Gunma University Heavy Ion Medical Center, Gunma University, Gunma, Japan
- 2011 - 2019: Professor, Gunma University Heavy Ion Medical Center, Gunma University, Gunma, Japan
- 2019- Present: Professor, Dept. of Radiation Oncology Graduate School of Medicine, Gunma University, Gunma, Japan
- 2020 – Present: Director, Gunma University Heavy Ion Medical Center, Gunma University, Gunma, Japan

• Professional Organizations:

Tatsuya Ohno is a Professor and Director of Gunma University Heavy Ion Medical Center, Japan. He leads many clinical studies on carbon ion radiotherapy for various cancers in Gunma University since 2010. He has served as Course Director on International Training Course on Carbon-ion Radiotherapy held at NIRS and Gunma University since 2012. He also served as Course Director of Clinical Workshop Program, 3D Image-guided adaptive brachytherapy for gynecology (2014), and had

a lecturer of IAEA Regional Training Course on GYN Cancers (2018), Federation of Asian Organizations for Radiation Oncology (2018), ESTRO meets Asia (2018.2019), Joint Symposium Between Japan and Indonesia (2020), AOS Manila (2020), World Congress of Brachytherapy ESTRO (2021). He is a board member of the Japan Carbon-ion Radiation Oncology Study Group (J-CROS) since 2014, and the Japanese Society for Radiation Oncology (JASTRO) since 2020. He was also an External Advisory Board member of Shanghai Proton and Heavy Ion Treatment Center and the Korea Heavy-ion Medical Accelerator (KHIMA) Project in Korea. He has served a chair of gynecologic tumor committee of the Japan Radiation Oncology Study Group (JROSG) since 2017. He is also a member of Radiation Oncology Project of the Forum for Nuclear Cooperation in Asia (FNCA) for 20 years. In this project, multi-center clinical trials on cervical cancer, nasopharyngeal cancer, and breast cancer have been performed among 11 Asian countries: Bangladesh, China, Indonesia, Japan, Korea, Kazakhstan, Malaysia, Thailand, The Philippines, Mongolia, and Viet Nam.

• **Main Scientific Publications:**

1. Nachankar A, Oike T, Hanaoka H, Kanai A, Sato H, Yoshida Y, Obinata H, Sakai M, Osu N, Hirota Y, Takahashi A, Shibata A, Ohno T. ⁶⁴Cu-ATSM Predicts Efficacy of Carbon Ion Radiotherapy Associated with Cellular Antioxidant Capacity. *Cancers (Basel)*. 2021 Dec 7;13(24):6159. doi: 10.3390/cancers13246159. PMID: 34944777; PMCID: PMC8699283.
2. Musha A, Hirai C, Kitada Y, Tsunoda A, Shimada H, Kubo N, Kawamura H, Okano N, Sato H, Okada K, Adachi A, Yokoo S, Chikamatsu K, Ohno T. Relationship between oral mucositis and the oral bacterial count in patients with head and neck cancer undergoing carbon ion radiotherapy: A prospective study. *Radiother Oncol*. 2021 Dec 10;167:65-71. doi: 10.1016/j.radonc.2021.12.010. Epub ahead of print. PMID: 34902372.
3. Okazaki S, Shibuya K, Takura T, Miyasaka Y, Kawamura H, Ohno T. Cost-effectiveness of carbon-ion radiotherapy versus stereotactic body radiotherapy for non-small-cell lung cancer. *Cancer Sci*. 2021 Nov 25. doi: 10.1111/cas.15216. Epub ahead of print. PMID: 34820994.
4. Osu N, Makinoshima H, Oike T, Ohno T. Metabolic Alteration in Cancer Cells by Therapeutic Carbon Ions. *Anticancer Res*. 2021 Dec;41(12):6023-6029. doi: 10.21873/anticancer.15421. PMID: 34848456.
5. Okano N, Sakai M, Shibuya K, Tsuda K, Kanzaki T, Sano M, Kaneko Y, Ohno T. Safety verification of carbon-ion radiotherapy for patients with cardiac implantable electronic devices (CIEDs). *J Radiat Res*. 2021 Nov 8;rrab105. doi: 10.1093/jrr/rrab105. Epub ahead of print. PMID: 34747483.
6. Shiba S, Miyasaka Y, Okamoto M, Komatsu S, Okazaki S, Shibuya K, Ohno T. Deterioration of pancreatic exocrine function in carbon ion radiotherapy for pancreatic cancer. *Clin Transl Radiat Oncol*. 2021 Oct 3;31:80-85. doi: 10.1016/j.ctro.2021.09.007. PMID: 34746451; PMCID: PMC8551411.
7. Okano N, Kubo N, Yamaguchi K, Kouno S, Miyasaka Y, Mizukami T, Shirai K, Saitoh JI, Ebara T, Kawamura H, Maeno T, Ohno T. Efficacy and Safety of Carbon-Ion Radiotherapy for Stage I Non-Small Cell Lung Cancer with Coexisting Interstitial Lung Disease. *Cancers (Basel)*. 2021 Aug 20;13(16):4204. doi: 10.3390/cancers13164204. PMID: 34439358; PMCID: PMC8391416.

8. Musha A, Shimada H, Kubo N, Kawamura H, Okano N, Sato H, Kaminuma T, Okada K, Anakura M, Adachi A, Shirai K, Saitoh JI, Yokoo S, Chikamatsu K, Ohno T. Clinical features and dosimetric evaluation of carbon ion radiation-induced osteoradionecrosis of mandible in head and neck tumors. *Radiother Oncol.* 2021 Aug;161:205-210. doi: 10.1016/j.radonc.2021.06.022. Epub 2021 Jun 18. PMID:34147522.
9. Komatsu S, Okamoto M, Shiba S, Kaminuma T, Okazaki S, Kiyohara H, Yanagawa T, Nakano T, Ohno T. Prospective Evaluation of Quality of Life and Functional Outcomes after Carbon Ion Radiotherapy for Inoperable Bone and Soft Tissue Sarcomas. *Cancers (Basel).* 2021 May 25;13(11):2591. doi: 10.3390/cancers13112591. PMID: 34070569; PMCID: PMC8199366.
10. Okamoto M, Shiba S, Okazaki S, Miyasaka Y, Shibuya K, Kiyohara H, Ohno T. Feasibility and Safety of Repeated Carbon Ion Radiotherapy for Locally Advanced Unresectable Pancreatic Cancer. *Cancers (Basel).* 2021 Feb 7;13(4):665. doi: 10.3390/cancers13040665. PMID: 33562274; PMCID: PMC7914638.
11. Sato H, Demaria S, Ohno T. The role of radiotherapy in the age of immunotherapy. *Jpn J Clin Oncol.* 2021 Apr 1;51(4):513-522. doi: 10.1093/jjco/hyaa268. PMID: 33561212; PMCID: PMC8012351.
12. Kubota Y, Okamoto M, Shiba S, Okazaki S, Matsui T, Li Y, Itabashi Y, Sakai M, Kubo N, Tsuda K, Ohno T, Nakano T. Robustness of daily dose for each beam angle and accumulated dose for inter-fractional anatomical changes in passive carbon-ion radiotherapy for pancreatic cancer: Bone matching versus tumor matching. *Radiother Oncol.* 2021 Apr;157:85-92. doi: 10.1016/j.radonc.2021.01.011. Epub 2021 Jan 27. PMID: 33515667.
13. Miyasaka Y, Okonogi N, Fukahori M, Furuichi W, Wakatsuki M, Kato S, Ohno T, Nakano T, Tsuji H. Pelvic insufficiency fractures following carbon-ion radiotherapy for uterine carcinomas. *Radiother Oncol.* 2021 Mar;156:56-61. doi: 10.1016/j.radonc.2020.11.030. Epub 2020 Dec 3. PMID: 33278405.
14. Demizu Y, Imai R, Kiyohara H, Matsunobu A, Okamoto M, Okimoto T, Tsuji H, Ohno T, Shioyama Y, Nemoto K, Nakano T, Kamada T; Japan Carbon-Ion Radiation Oncology Study Group. Carbon ion radiotherapy for sacral chordoma: A retrospective nationwide multicentre study in Japan. *Radiother Oncol.* 2021 Jan;154:1-5. doi: 10.1016/j.radonc.2020.09.018. Epub 2020 Sep 14. PMID: 32941958.
15. Ohno T, Okamoto M. Carbon ion radiotherapy as a treatment modality for paediatric cancers. *Lancet Child Adolesc Health.* 2019 Jun;3(6):371-372. doi: 10.1016/S2352-4642(19)30106-3. Epub 2019 Apr 1. PMID: 30948250.