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# Publications related to this work

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## Peer-reviewed articles

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Seregni M, Kaderka R, Fattori G, Riboldi M, Pella A, **Constantinescu A**, Saito N, Durante M, Cerveri P, Bert C, Baroni G: Tumor tracking based on correlation models in scanned ion beam therapy: an experimental study; *Phys Med Biol*; 58(13); 2013

Graeff C, **Constantinescu A**, Luchtenborg R, Durante M, Bert C: Multigating: 4D optimized beam tracking in scanned ion beam therapy; *Technol Cancer Res Treat.*; Epub ahead of print DOI: 10.7785/tcrtexpress.2013.6002772013; 2013

Fattori G, Saito N, Seregni M, Kaderka R, Pella A, **Constantinescu A**, Riboldi M, Steidl P, Cerveri P, Bert C, Durante M and Baroni G: Commissioning of an integrated platform for time-resolved treatment delivery in scanned ion beam therapy by means of optical motion monitoring; *Technol Cancer Res Treat.*; Epub ahead of print DOI: 10.7785/tcrtexpress.2013.600275; 2013

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## GSI scientific reports

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**Constantinescu A**, Luchtenborg R, Durante M, Bert C: Experimental validation of motion phase interpolation when tracking a moving tumor with a scanned ion beam; *GSI Scientific Report 2011*, 541

**Constantinescu A**, Lehmann HI, Graeff C, Packer D, Durante M, Bert C: Influence of cardiac motion on pulmonary veins for the non-invasive treatment of atrial fibrillation with a scanned carbon ion beam; *GSI Scientific Report 2012*, 472

**Constantinescu A**, Lehmann HI, Graeff C, Packer D, Durante M, Bert C: Influence of cardiac motion on porcine AV node for the non-invasive treatment of atrial fibrillation with a scanned carbon ion beam; *GSI Scientific Report 2013*

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## Articles

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Carbon ions tackle atrial fibrillation; Tami Freeman; medicalphysicsweb.org; June 20; 2013

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## Conference contributions

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- Constantinescu A**, Blanck O, Durante M, Bert C (2012). Non-invasive treatment of atrial fibrillation with a scanned carbon ion beam; *Radiotherapy and Oncology*, 102(Supplement 1):S215. Oral presentation
- Constantinescu A**, Blanck O, Durante M, Bert C (2012). Non-invasive treatment of atrial fibrillation with a scanned carbon ion beam; *DPG spring meeting*. Oral presentation
- Constantinescu A**, Lehmann HI, Graeff C, Packer DL, Durante M and Bert C (2013). Planning studies for non-invasive isolation of the pulmonary veins with a scanned carbon ion beam; *HRS Scientific Meeting*. Oral presentation
- Constantinescu A**, Lehmann HI, Graeff C, Packer DL, Durante M and Bert C (2013). Planning studies for non-invasive isolation of the pulmonary veins with a scanned carbon ion beam; *PTCOG 52*. Oral presentation
- Constantinescu A**, Lehmann HI, Graeff C, Packer DL, Durante M and Bert C (2013). Non-invasive treatment of atrial fibrillation with a scanned carbon ion beam; *Particle Radio-surgery: A new Frontier in Physics in Medicine*. Poster presentation
- Constantinescu A**, Lehmann HI, Graeff C, Packer DL, Durante M and Bert C (2014). Catheter-free ablation of atrial fibrillation: further planning studies in patient data using a scanned carbon ion beam for pulmonary vein isolation; *HRS Scientific Meeting*. Moderated poster presentation