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Authors: Claire Lhuillier, Claire Vanpouille-Box, Lorenzo Galluzzi, Silvia Chiara Formenti, Sandra Demaria



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ACCEPTED MANUSCRIPT

Emerging biomarkers for the combination of radiotherapy and immune checkpoint blockers

Claire Lhuillier¹, Claire Vanpouille-Box¹, Lorenzo Galluzzi^{1,2}, Silvia Chiara Formenti^{1,2} and

Sandra Demaria^{1,2,3,*}

¹Department of Radiation Oncology, Weill Cornell Medical College, New York, NY, USA; ²Sandra and Edward Meyer Cancer Center, New York, NY, USA; ³Department of Pathology and Laboratory Medicine, Weill Cornell Medical College, New York, NY, USA.

Correspondence to:

Dr. Sandra Demaria. Weill Cornell Medical College, Stich Radiation Oncology, 525 East 68th Street, Box #169, New York, NY 10065, USA; Phone: +1(212)746-3600; Fax: +1(212)746-7815; E-mail: <u>szd3005@med.cornell.edu</u>

Running title: Predicting clinical responses to radiotherapy plus immunotherapy with ICBs.

Keywords: DNA damage response; mutational load; natural killer cells; PD-L1; type I interferon.

Abbreviations: CTC, circulating tumor cell; CTL, cytotoxic T lymphocyte; DC, dendritic cell; DDR, DNA damage response; DSB, double-stand break; dsDNA, double-stranded DNA; FDA, Food and Drug Administration; ICB, immune checkpoint blocker; IFN, interferon; IHC, immunohistochemistry; IRDS, IFN-related DNA damage resistance signature; MMR, mismatch repair; MSI, microsatellite instability; NK, natural killer; NSCLC, non-small cell lung carcinoma; RCD, regulated cell death; RT, radiation therapy.

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