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**Vulnerabilities of cancer cells
suffering from DNA replication stress**



Bente Benedict

About the author

Bente Benedict was born on 10 January 1991 in Hoeven, The Netherlands. After completing her secondary school, Katholieke Scholengemeenschap Etten-Leur, with distinction in 2009, she went on to study Biomedical Sciences at Radboud University in Nijmegen. During her Bachelor's degree, Bente was selected for a two-year Honours programme, which involved an internship in the laboratory of Prof. Paresh Vyas at the Weatherall Institute of Molecular Medicine and Oxford University in Oxford, UK. For this internship, Bente was awarded the Nijbakker Morra Incentive Award. In 2012, she obtained her Bachelor of Science degree with first-class honours, and subsequently enrolled in the Master's degree programme Molecular Mechanisms of Disease at Radboud University in Nijmegen. She carried out an internship in the laboratory of Prof. Gerard Martens at the Radboud Institute of Molecular Life Sciences, where she studied the role of the brain-specific Ac45RP protein in neuronal outgrowth. During her Master's degree, Bente also moved to Amsterdam for an internship in Prof. Hein te Riele's laboratory at the Netherlands Cancer Institute. Here, she worked in the field of oligonucleotide directed gene modification in human induced pluripotent stem cells. In 2014, she was awarded her Master of Science degree with first-class honours. In that same period, she won the Radboud PhD Proposal Competition with a self-written PhD project in the field of fundamental neurobiology. Subsequently, in October 2014, Bente began her work as a PhD student in Prof. Hein te Riele's laboratory at the Netherlands Cancer Institute in Amsterdam. During her PhD she focused on identifying molecular mechanisms that cancer cells need to minimize DNA replication stress. Better understanding of these processes is essential to explore vulnerabilities of cancer cells. Bente's major findings are described in this thesis.

