

Accepted Manuscript



Increased Levels of Oxidative Damage in Liver Metastases Compared to Corresponding Primary Colorectal Tumors Association with Molecular Subtype and Prior Treatment

Lizet M. van der Waals, Jennifer M.J. Jongen, Sjoerd G. Elias, Kateryna Veremiyenko, Kari Trumpi, Anne Trinh, Jamila Laoukili, Inge Ubink, Susanne J. Schenning-van Schelven, Paul J. van Diest, Inne H.M. Borel Rinkes, Onno Kranenburg

PII: S0002-9440(17)31022-2

DOI: [10.1016/j.ajpath.2018.06.008](https://doi.org/10.1016/j.ajpath.2018.06.008)

Reference: AJPA 2936

To appear in: *The American Journal of Pathology*

Received Date: 31 October 2017

Revised Date: 15 May 2018

Accepted Date: 19 June 2018

Please cite this article as: van der Waals LM, Jongen MJ, Elias SG, Veremiyenko K, Trumpi K, Trinh A, Laoukili J, Ubink I, Schenning-van Schelven SJ, van Diest PJ, Borel Rinkes IHM, Kranenburg O, Increased Levels of Oxidative Damage in Liver Metastases Compared to Corresponding Primary Colorectal Tumors Association with Molecular Subtype and Prior Treatment, *The American Journal of Pathology* (2018), doi: 10.1016/j.ajpath.2018.06.008.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Increased levels of oxidative damage in liver metastases compared to corresponding primary colorectal tumors: association with molecular subtype and prior treatment

Lizet M. van der Waals,¹ Jennifer M.J. Jongen,¹ Sjoerd G. Elias,² Kateryna Veremiyenko,¹ Kari Trumpi,¹ Anne Trinh,³ Jamila Laoukili,¹ Inge Ubink,¹ Susanne J. Schenning-van Schelven,¹ Paul J. van Diest,⁴ Inne H.M. Borel Rinkes,¹ and Onno Kranenburg^{5*}

¹From the Department of Surgical Oncology, UMC Utrecht Cancer Center and ²Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, Utrecht University, Utrecht, The Netherlands; ³Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, MA; ⁴Department of Pathology and ⁵Division of Biomedical Genetics, University Medical Center Utrecht, Utrecht University, Utrecht, The Netherlands.

*Address correspondence to Onno Kranenburg, Ph.D., Division of Biomedical Genetics, UMC Utrecht, PO Box 85500, 3508 GA Utrecht, The Netherlands. E-mail: o.kranenburg@umcutrecht.nl. Phone number: 0031-88-7558632

Running Title: Oxidative stress in metastatic CRC

Funding: Supported by the Gieskes-Strijbis Foundation (L.M.W.), Dutch Cancer Society (grant no. UU2013-5865 J.M.J.J.; 2015-8088 J.L. and S.J.S.; 2014-6617 I.U.), PON foundation and 'Vrienden van het UMCU' (K.T.).

Disclosures: None declared.

Number of text pages: 14

Number of tables: 2 manuscript and 3 supplemental data

Number of figures: 5 manuscript and 3 supplemental data

Footnote: Current address for J.M.J.J.: Department of Surgery, Meander Medical Center, Amersfoort, The Netherlands, and for K.T.: Department of Surgery, Diaconessenhuis, Utrecht, The Netherlands.

Download English Version:

<https://daneshyari.com/en/article/10212874>

Download Persian Version:

<https://daneshyari.com/article/10212874>

[Daneshyari.com](https://daneshyari.com)