

University of Groningen

## Note of concern: Guanine quadruplex structures localize to heterochromatin

Hoffmann, Roland F; Moshkin, Yuri M; Mouton, Stijn; Grzeschik, Nicola A; Kalicharan, Ruby D.; Kuipers, Jeroen; Wolters, Anouk H G; Nishida, Kazuki; Romashchenko, Aleksander V; Postberg, Jan

*Published in:*  
Nucleic Acids Research

*DOI:*  
[10.1093/nar/gkx301](https://doi.org/10.1093/nar/gkx301)

**IMPORTANT NOTE:** You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

*Document Version*  
Publisher's PDF, also known as Version of record

*Publication date:*  
2017

[Link to publication in University of Groningen/UMCG research database](#)

*Citation for published version (APA):*

Hoffmann, R. F., Moshkin, Y. M., Mouton, S., Grzeschik, N. A., Kalicharan, R. D., Kuipers, J., Wolters, A. H. G., Nishida, K., Romashchenko, A. V., Postberg, J., Lipps, H., Berezikov, E., Sibon, O. C. M., Giepmans, B. N. G., & Lansdorp, P. M. (2017). Note of concern: Guanine quadruplex structures localize to heterochromatin. *Nucleic Acids Research*, 45(10), 6253-6253. <https://doi.org/10.1093/nar/gkx301>

### Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

### Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

## Expression of Concern

# Guanine quadruplex structures localize to heterochromatin

Roland F. Hoffmann<sup>1</sup>, Yuri M. Moshkin<sup>2</sup>, Stijn Mouton<sup>1</sup>, Nicola A. Grzeschik<sup>3</sup>, Ruby D. Kalicharan<sup>3</sup>, Jeroen Kuipers<sup>3</sup>, Anouk H.G. Wolters<sup>3</sup>, Kazuki Nishida<sup>4</sup>, Aleksander V. Romashchenko<sup>2,5</sup>, Jan Postberg<sup>6</sup>, Hans Lipps<sup>7</sup>, Eugene Berezikov<sup>1,5</sup>, Ody C.M. Sibon<sup>3</sup>, Ben N.G. Giepmans<sup>3</sup> and Peter M. Lansdorp<sup>1,8,\*</sup>

<sup>1</sup>European Research Institute for the Biology of Ageing, University of Groningen, University Medical Centre Groningen, A. Deusinglaan 1, NL-9713 AV Groningen, The Netherlands, <sup>2</sup>Department of Biochemistry, Erasmus University Medical Center, Dr. Molewaterplein 50, NL-3015 GE Rotterdam, The Netherlands, <sup>3</sup>Department of Cell Biology, University of Groningen, University Medical Centre Groningen, A. Deusinglaan 1, NL-9713 AV Groningen, The Netherlands, <sup>4</sup>Faculty of Medicine, Kyoto University, Kyoto 606–8501, Japan, <sup>5</sup>Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk 630090, Russia, <sup>6</sup>Helios Medical Centre Wuppertal, Paediatrics Centre, Witten/Herdecke University, Wuppertal, Germany, <sup>7</sup>Institute of Cell Biology, Centre for Biomedical Education and Research, Witten/Herdecke University, Witten, Germany and <sup>8</sup>Terry Fox Laboratory, British Columbia Cancer Agency and Department of Medicine, University of British Columbia Vancouver, BC, V5Z 1L3, Canada

*Nucleic Acids Res.* (08 January 2016) 44 (1): 152–163. doi: 10.1093/nar/gkv900

The corresponding Author and Editors wish to jointly express a note of concern regarding the above article.

Recent studies by the corresponding Author and new collaborators have revealed that mouse monoclonal antibody 1H6, used in the above article to detect G-quadruplexes, cross-reacts with some other DNA sequences, notably adjacent thymidines in single stranded DNA that are restricted in their movement in G4 structures and denatured DNA fibers. While the data reported in the published article remain valid, the Editors and corresponding Author wish to alert Readers of this cross-reactivity as it is likely to affect the interpretation of the results of all experiments using the 1H6 antibody.

The Editors commend the corresponding Author for being forthcoming and disclosing these latest results which have been also been published in NAR (1).

Keith Fox, Senior Executive Editor, *Nucleic Acids Research*

Barry Stoddard, Senior Executive Editor, *Nucleic Acids Research*

## REFERENCE

1. Kazemier, H.G., Paeschke, K. and Lansdorp, P.M. (2017) Guanine quadruplex monoclonal antibody 1H6 cross-reacts with restrained thymidine-rich single stranded DNA, *Nucleic Acids Res.*, 10.1093/nar/gkx245.

---

\*To whom correspondence should be addressed. Tel: +31 50 361 7300; Fax: +31 50 361 7300; Email: p.m.lansdorp@umcg.nl