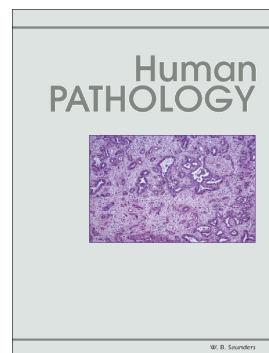


# Accepted Manuscript

Micropapillary urothelial carcinoma: evaluation of HER2 status and immunohistochemical characterization of the molecular subtype



Ulrike Zinnall, Veronika Weyerer, Eva Compérat, Philippe Campano, Nadine T. Gaisa, Ruth Knuechel-Clarke, Aurel Perren, Alessandro Lugli, Marieta Toma, Gustavo Baretton, Glen Kristiansen, Ralf M. Wirtz, Liang Cheng, Bernd Wullich, Robert Stoehr, Arndt Hartmann, Simone Bertz

PII: S0046-8177(18)30190-4

DOI: [doi:10.1016/j.humpath.2018.05.022](https://doi.org/10.1016/j.humpath.2018.05.022)

Reference: YHUPA 4587

To appear in: *Human Pathology*

Received date: 23 March 2018

Revised date: 11 May 2018

Accepted date: 15 May 2018

Please cite this article as: Ulrike Zinnall, Veronika Weyerer, Eva Compérat, Philippe Campano, Nadine T. Gaisa, Ruth Knuechel-Clarke, Aurel Perren, Alessandro Lugli, Marieta Toma, Gustavo Baretton, Glen Kristiansen, Ralf M. Wirtz, Liang Cheng, Bernd Wullich, Robert Stoehr, Arndt Hartmann, Simone Bertz , Micropapillary urothelial carcinoma: evaluation of HER2 status and immunohistochemical characterization of the molecular subtype. Yhupa (2018), doi:[10.1016/j.humpath.2018.05.022](https://doi.org/10.1016/j.humpath.2018.05.022)

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.

**Micropapillary urothelial carcinoma: evaluation of HER2 status and immunohistochemical characterization of the molecular subtype**

Ulrike Zinnall <sup>a,b\*</sup>, Veronika Weyerer <sup>a\*#</sup>, Eva Compérat MD <sup>c</sup>, Philippe Camparo MD <sup>d</sup>, Nadine T. Gaisa MD/ PhD <sup>e</sup>, Ruth Knuechel-Clarke MD <sup>e</sup>, Aurel Perren MD <sup>f</sup>, Alessandro Lugli MD <sup>f</sup>, Marieta Toma MD <sup>g,1</sup>, Gustavo Baretton MD <sup>g</sup>, Glen Kristiansen MD <sup>h</sup>, Ralf M. Wirtz PhD <sup>i</sup>, Liang Cheng MD <sup>j</sup>, Bernd Wullich MD <sup>k</sup>, Robert Stoehr PhD <sup>a</sup>, Arndt Hartmann MD <sup>a</sup>, Simone Bertz MD <sup>a</sup>

<sup>a</sup> Institute of Pathology, University Hospital Erlangen, Friedrich-Alexander-University Erlangen-Nürnberg, 91054 Erlangen, Germany.

<sup>b</sup> Max Delbrück Center for Molecular Medicine in the Helmholtz Association, Berlin Institute for Medical Systems Biology, 13125 Berlin, Germany

<sup>c</sup> Department of Pathology, Hôpital Tenon, Assistance Publique-Hôpitaux de Paris, UPMC Paris VI, 75020 Paris, France.

<sup>d</sup> Centre de Pathologie Amiens Picardie, 80000 Amiens, France.

<sup>e</sup> Institute of Pathology, RWTH Aachen University, 52074 Aachen, Germany.

<sup>f</sup> Institute of Pathology, University of Bern, 3008 Bern, Switzerland.

<sup>g</sup> Institute of Pathology, University Hospital Carl Gustav Carus, 01307 Dresden, Germany.

<sup>h</sup> Institute of Pathology, University Hospital Bonn, 53127 Bonn, Germany.

<sup>i</sup> STRATIFYER Molecular Pathology GmbH, 50935 Cologne and Institute of Pathology at The St Elisabeth Hospital Köln-Hohenlind, 50935 Cologne, Germany.

<sup>j</sup> Department of Pathology and Laboratory Medicine and Urology, Indiana University School of Medicine, Indianapolis, IN 46202, USA.

<sup>k</sup> Department of Urology and Pediatric Urology, University Hospital Erlangen, Friedrich-Alexander-University Erlangen-Nürnberg, 91054 Erlangen, Germany.

\* These authors contributed equally to this work.

# Corresponding author.

Download English Version:

<https://daneshyari.com/en/article/10091003>

Download Persian Version:

<https://daneshyari.com/article/10091003>

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