International Workshop

Uterine fibroids:
Epidemiology, Pathology, and Genetics

organized by:

- Institute for Medical Genetics, University Medicine Rostock
- Joern Bullerdiek, Rostock, Germany
- Thomas Loening, Hamburg, Germany
- Dominique Nadine Markowski, Bremen, Germany

taking place on

May 13th – 15th, 2014 in Rostock, Germany

Radisson Blu Hotel
about

Uterine fibroids are the most frequent symptomatic tumors that affect the quality of life of millions of women worldwide. Some recent groundbreaking findings as e.g. the identification of mutations of mediator subcomplex 12 (MED12) in a majority of uterine fibroids offer novel exciting perspectives for understanding the molecular pathogenesis of these highly frequent tumors. The workshop aims at a better understanding of mechanism leading to the development of fibroids, their malignant transformation as well as possible clinical implications. It will bring together experts in the field to exchange and stimulate ideas on the pathogenesis and biology of this highly frequent disease.

topics

• histopathology
• epidemiology
• genes and driver mutations
• cytogenetics
• familial disposition
Programme

*The programme will remain flexible – any suggestions will be considered*

International Workshop

**Uterine fibroids:**

**Epidemiology, Pathology, and Genetics**

*Copper-plate engraving, from Virchow, R.: Die krankhaften Geschwuelste,
Ill. Band, I. Haelfte - Strumen, Myome, Neurome, Angiome, Berlin, 1867*
May 13th, Aula of the University

19.30 – 20.30 Opening evening (German, lectures open to the general public)

Uterus-Myome: Einblicke in die Biologie eines haeufigen Tumors
Joern Bullerdiek, Rostock, Germany

Uterus-Myome: Diagnose und Therapie
Ingo v. Leffern, Hamburg, Germany

Uterus-Myome: Welche Aussagen trifft der Pathologe?
Thomas Loening, Hamburg, Germany

20.30 p.m. – 21.30 p.m. Welcome reception and informal get together,
Penta-Hotel
May 14th, Radisson Blu Hotel

9.00 – 9.20  Welcome addresses

Rudolf F. Guthoff
Vice-Dean for Scientific Affairs and Research Development of the Medical Faculty of Rostock University

Joern Bullerdiek
for the organizers of the workshop

9.20 – 11.00  Clinical presentation, treatment, and public health
chair: Erica Marsh

09.00 – 09.50  Uterine fibroids: symptoms and treatment – an overview
N.N.

09.50 – 10.25  A Disproportionate Burden: The African-American Fibroid Experience
Erica Marsh, Chicago, U.S.A.

10.25 – 11.00  Biomarkers for the detection of uterine smooth muscle tumors
Tine Cuppens, Leuven, Belgium

11.00 – 11.30  Coffee break

11.30 – 13.15  Epidemiology
chair: Cynthia C. Morton

11.30 – 12.20  The epidemiology of UL
Donna D. Baird, Research Triangle Park, U.S.A.

12.20 – 12.50  In vivo models for uterine fibroids: Pitfalls and perspectives
Michael Drosch, Berlin, Germany

12.50 – 13.20  Short oral communications (3)

13.20 – 14.30  Lunch Break
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.30 – 17.30</td>
<td>Genetics and gene expression</td>
<td>chair: Lauri Aaltonen</td>
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<tr>
<td>14.30 – 15.20</td>
<td>Lessons from high-throughput sequencing of leiomyomas</td>
<td>Lauri Aaltonen, Helsinki, Finland</td>
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<td>15.20 – 16.00</td>
<td>Chromosomal alterations and their targets</td>
<td>Joern Bullerdiek, Rostock, Germany</td>
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<td>16.00 – 16.30</td>
<td>CUX1 mutations in human tumors</td>
<td>Chi Wong, Cambridge, UK</td>
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<td>16.30 – 16.50</td>
<td>Coffee break</td>
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<tr>
<td>16.50 – 17.20</td>
<td>Genetic alterations in STUMP and leiomyosarcomas</td>
<td>Frédéric Chibon, Bordeaux, France</td>
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<td>17.20 – 17.35</td>
<td>Tachykinin expression in leiomyomas and myometrium</td>
<td>Teresa A. Almeida, Tenerife, Spain</td>
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<td>17.35 – 17.50</td>
<td>Detection of copy number variation and chromothripsis in tumor cells - methodological considerations</td>
<td>Dirk Koczan, Rostock, Germany</td>
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**May 15th, Radisson Blu Hotel**

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker/Location</th>
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<tbody>
<tr>
<td>09.00 – 13.30</td>
<td>Pathology and pathogenesis</td>
<td>chair: Frédéric Chibon</td>
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<tr>
<td>09.00 – 09.30</td>
<td>WHO nomenclature</td>
<td>Thomas Löning, Hamburg, Germany</td>
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<tr>
<td>09.30 – 10.10</td>
<td>Genetic studies of predisposition to uterine fibroids: from linkage and genome-wide association studies to a potential medical therapy</td>
<td>Cynthia C. Morton, Boston, U.S.A.</td>
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</tbody>
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10.10 – 10.50  The molecular pathogenesis of UL  
*Pasquapina Ciarmela, Ancona, Italy*

10.50 – 11.10  Coffee Break

11.10 – 11.30  Mechanism of spontaneous growth arrest  
*Yvonne Kiefer / Dominique N. Markowski, Bremen, Germany*

11.30 – 11.50  Arrays to detect genetic abnormalities in uterine leiomyomas  
*Carsten Holzmann, Rostock, Germany*

11.50 – 12.05  Uterine leiomyomas with bizarre nuclei  
*Sabrina Croce, Bordeaux, France*

12.05 – 13.30  **Round table (with industrial participation):**  
- clinical consequences  
- considerations towards a European Initiative within the framework of HORIZON 2020  
*Mita Mancini, Affymetrix, Wooburn Green, UK: Paraffin-embedded tumor samples – technical considerations*

chair: *Pasquapina Ciarmela, Joern Bullerdiek*

13.30  Lunch
venue

Radisson Blu Hotel, Lange Straße 40, D-18055 Rostock, Germany

registration

please contact us for further details at
karin.geron@med.uni-rostock.de

conference fee

300,-- € (including Welcome Reception, Lunch on May 14th and 15th)

workshop organization

Joern Bullerdiek, Rostock, Germany
Thomas Loening, Hamburg, Germany
Dominique Nadine Markowski, Bremen, Germany

contact/secretary

Karin Geron
e-mail: karin.geron@med.uni-rostock.de

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