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
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
Places

1: Radisson Blu
2: University, Aula
3: Penta Hotel
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,*

*III. Band, I. Hälfte - 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
14.30 – 17.30  Genetics and gene expression
              chair: Lauri Aaltonen

14.30 – 15.20 Lessons from high-throughput sequencing of leiomyomas
                   Lauri Aaltonen, Helsinki, Finland

15.20 – 16.00 Chromosomal alterations and their targets
               Joern Bullerdiek, Rostock, Germany

16.00 – 16.30 CUX1 mutations in human tumors
                   Chi Wong, Cambridge, UK

16.30 – 16.50 Coffee break

16.50 – 17.20 Genetic alterations in STUMP and leiomyosarcomas
                  Frédéric Chibon, Bordeaux, France

17.20 – 17.35 Tachykinin expression in leiomyomas and myometrium
                   Teresa A. Almeida, Tenerife, Spain

17.35 – 17.50 Detection of copy number variation and chromothripsis in tumor cells - methodological considerations
                   Dirk Koczan, Rostock, Germany

May 15th, Radisson Blu Hotel

09.00 – 13.30 Pathology and pathogenesis
                chair: Frédéric Chibon

09.00 – 09.30 WHO nomenclature
                   Thomas Löning, Hamburg, Germany

09.30 – 10.10 Genetic studies of predisposition to uterine fibroids:
                  from linkage and genome-wide association studies to a potential medical therapy
                   Cynthia C. Morton, Boston, U.S.A.
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  
Mit a 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

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Thomas Loening, Hamburg, Germany
Dominique Nadine Markowski, Bremen, Germany

contact/secretary

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