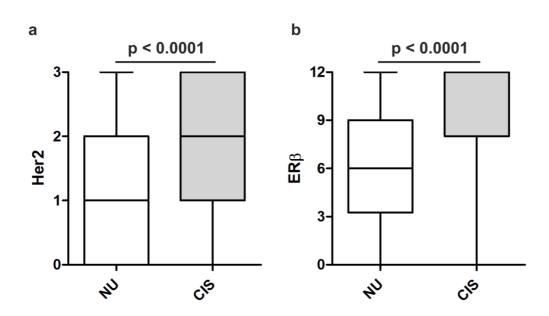
Progression of urothelial carcinoma *in situ* of the urinary bladder: a switch from luminal to basal phenotype and related therapeutic implications

Isabella Barth, Ursula Schneider, Tobias Grimm, Alexander Karl, David Horst, Nadine T. Gaisa,
Ruth Knüchel and Stefan Garczyk

Corresponding author:

Prof. Dr. med. Ruth Knüchel Institute of Pathology University Hospital RWTH Aachen Pauwelsstrasse 30, 52074 Aachen, Germany Email: rknuechel-clarke@ukaachen.de



Online resource 3: Comparison of Her2 and ERB expression in CIS and NU

(a) Her2 expression (Dako score) and (b) ER β expression (Remmele Score) were compared in CIS and normal urothelium at the same time of biopsy in 84 cases with available normal urothelium. A significantly higher expression of both proteins was observed in the CIS cohort, highlighting the potential of intravesical anti-Her2 and anti-ER β therapies.

Abbreviations: CIS – Carcinoma in situ, ER – Estrogen receptor, Her2 – Human epidermal growth factor receptor 2, NU – normal urothelium