



MEDNARODNA  
PODIPLOMSKA ŠOLA  
JOŽEFA STEFANA

JOŽEF STEFAN  
INTERNATIONAL  
POSTGRADUATE SCHOOL

## VABILO NA PREDAVANJE

**prof. dr. Henninga ULRICHA**

(Departamento de Bioquímica, Instituto de Química Universidade de São Paulo, Brazilia)

z naslovom:

***Aptamer development for biosensorics and pharmaceutical applications***

**v sredo, 5. marca 2014, ob 13:00**

v predavalnici Mednarodne podiplomske šole Jožefa Stefana, soba N205,  
Jamova 39, Ljubljana

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## INVITATION TO THE LECTURE OF

**Prof. Dr. Henning ULRICH**

(Departamento de Bioquímica, Instituto de Química Universidade de São Paulo, Brazil)

entitled:

***Aptamer development for biosensorics and pharmaceutical applications***

**on Wednesday, March 5th, 2014 at 1:00 p.m.**

at the Jožef Stefan International Postgraduate School  
Lecture Hall N205, Jamova 39, Ljubljana

Aptamers are small nucleic acid molecules capable of binding to a wide range of target molecules with high affinity and specificity. They have been developed and widely used not only as research tools, but also as biosensors, specific antagonists, and diagnostic markers and as protein purification platform for many pharmaceutical and clinical applications. Biochemical aspects of aptamer-target interactions will be explored and discussed why aptamers rival antibodies in target recognition. Moreover, we will also discuss aptamers whose binding parameters can be controlled on demand for diagnostic approaches and used as sensitive receptors in biosensorics. Aptamers have opened up exciting fields in basic and applied research of pharmaceutical and biotechnological interest.