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# Ring Lecture

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## Prof. Dr. Tania Barkat

Brain & Sound Lab, Department of Biomedicine, University of Basel  
Member of ALBA Network

>> Plasticity in the juvenile auditory system <<

**Hosted by: Alan Tobias Price**

02.12.2021

13:00 – 14:00

Zoom Lecture

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## Abstract

Neuronal circuits are shaped by experience during time windows of increased plasticity in postnatal development, known as critical periods. In the mouse auditory system, the critical period for pure tones takes place from postnatal days 12 to 15. The critical period for frequency-modulated sweeps (FMS) occurs weeks later, from postnatal days 31 to 38. Whether such critical periods are timed by a temporally precise developmental program or sequentially organized was not known. This seminar will unravel the dependency of critical periods on each other and discuss the underlying neuronal mechanisms. Together, the results presented reveal an unexpected picture of the independence of sound features and their related developmental plasticity. They add fundamental knowledge about how our central sensory system is built, organized, and functioning.

**Prof. Dr. Tania Barkat**

M.Sc. Chemistry from EPFL

PhD at EPFL

ERC Starting Grant

Postdoc at Harvard University

Group Leader University of Copenhagen

2015- 2020: Tenure-track assistant Professor, University of Basel

Assistant Professor, University of Basel

Member of Alba Network



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