

**Thursday March 16<sup>th</sup>, 2017 - 10h30**  
Conference room AI 1153 (\*) - EPFL - Lausanne

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## **“New Insights into mitochondrial Cox2 biogenesis”**

**Host:** Prof. Johan Auwerx

### **Abstract:**

Within mitochondria, the biogenesis of the respiratory chain complexes (I to IV), is a highly coordinated process. Cox2 is a mitochondrial-encoded central subunit of the complex IV. Using yeast as a model system, we find that the ribosome receptor Mba1 forms a ribosomes-nascent chain complex with ribosome translating Cox2 and the Cox2 chaperone Cox20. We propose a novel shuttling mechanism for newly synthesized Cox2 from the ribosome to maturing complex IV assembly intermediates. Complementary studies on human COX20 complexes have uncovered novel assembly factors involved in COX2 biogenesis.

(\*) IMPORTANT NOTICE: All external participants have to pass through SV Reception/Welcome Desk to be able to access to AI 1153.

Contact person to call at arrival at SV Reception Desk: Johan Auwerx 30951 /Administrative Assistant: 39522.

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