



FKKT

UNIVERZA V LJUBLJANI
Fakulteta za kemijo in kemijsko tehnologijo

VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI / INVITATION TO THE
LECTURE WITHIN DOCTORAL PROGRAMME IN
CHEMICAL SCIENCES

**Dr. Juliane R. Sempionatto, Assistant
Professor**

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z naslovom / title:

**Wearable electrochemical sensors for non-
invasive health monitoring**

v sredo, 20. 5. 2026 ob 15. uri
v predavalnici 1 v 1. nadstropju Fakultete za kemijo
in kemijsko tehnologijo, Večna pot 113 /
on Wednesday, 20. 5. 2026 at 15.00
in lecture room 1, 1st floor at the Faculty of
Chemistry and Chemical Technology, Večna pot 113

Vljudno vabljeni! / Kindly invited!



Abstract:

Nowadays, wearable devices are limited to monitoring physical parameters such as motion, temperature, heart rate, steps, etc., while important (bio)chemical information, such as metabolites (glucose, lactate, alcohol) and electrolytes (sodium, potassium) levels, can only be accessed via blood analysis. Electrochemical wearable biosensors are promising candidates to bridge the technology gap for wearable devices toward comprehensive monitoring of important and medically relevant biological changes in the human body. In this talk, the development and application of non-invasive wearable devices will be discussed.