UNI BASEL

Department of Pharmaceutical Sciences

Annual Research Meeting 2025

Abstract and Poster Guidelines

Location of the meeting:	University of Basel, Pharmacenter, Lecture Hall 1 Klingelbergstrasse 50, CH-4056 Basel
Date:	**February 6, 2025**
Procedure:	February 6, 2025 Starting at 07.00 a.m.: hanging up of posters (the lectures start at 08.30 a.m.) Coffee breaks: poster sessions (total of two) After 05:00 p.m.: collection of posters by authors
Registration:	**All participants** register officially via the link on the main page www.pharma.unibas.ch → News & Events → ARM 2025 (Annual Research Meeting). ***Deadline: January 28, 2025***
Abstract:	Please send the abstract of your poster/talk as word file to petra.rohrwild@unibas.ch. ***Deadline: January 20, 2025*** max. length of title: 120 characters (w/o blanks) max. size of abstract: 1700 characters (w/o blanks) Format: Word Document (you will find an example of an abstract on page 2)
Poster:	max. 80 x 120 cm (A0), portrait format You can print the posters at: Print-it Mittlere Strasse 24 4056 Basel Phone: +41 61 263 27 80 Website: https://www.we-print-it.ch/ E-mail: go@we-print-it.ch Opening hours: 11:00 – 12.00 / 13.30 – 17.30

Please send your pdf-file by e-mail to go@we-print-it.ch (up to 10 MB) or by WeTransfer if it is more than 10 MB (wetransfer.com) indicating that you are from the Pharmacenter or bring it on an USB stick to the shop. To avoid you having to pay cash and then be refunded, we have deposited a list at Print-it. Just fill in your name and research group to get your poster. We will then receive a collective invoice.

Please NOTE: Print-it needs at least one working day to print your poster. So please calculate enough time for delivery. You will be informed by e-mail when your poster is ready to collect.

For any further questions, please contact:
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ABSTRACT EXAMPLE:

Interactions of human calcitonin (hCT) derived cell-penetrating peptides with mono- and bilayer models

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Membrane-translocating peptide sequences as carrier peptides for macromolecules represent an innovative drug delivery approach. Human calcitonin (hCT) (CGNLSTCMLG TYTQDFNKFH TFPQTAIGVG AP-NH_2) and selected C-terminal hCT fragments have been shown to be internalized and to permeate the epithelium of the nasal mucosa, whereas the mechanism of uptake and crucial structural features of these peptides are largely unknown. Liposome-buffer partitioning experiments of hCT derived peptides showed a generally high affinity to phospholipid liposomes (up to 2500-fold enrichment in the bilayer). Interaction with neutral POPC LUVs is mainly due to the peptides' lipophilicity, while interaction with negatively charged LUVs is largely governed by their positive charge density. 2-D ^{1}H NMR studies of hCT(9-32) revealed two alpha-helical domains interrupted by a central Pro and proved the localisation in DPC micelles by means of spin-label probes. Replacing Gly in position 10 or 30 by a Trp led to an increased affinity towards lipid membranes. Furthermore this exchange allowed us to perform Trp-fluoresence quenching studies with a series of membrane-incorporated quenchers to obtain precise information about the localisation in phospholipid bilayers. Supported by internalisation studies on MDCK monolayers these findings suggest an absorptive-mediated endocytosis process as uptake mechanism.