

TRAVEL GRANT REPORT

T4SS conference 2025

Nancy, France 17.-20. February 2025

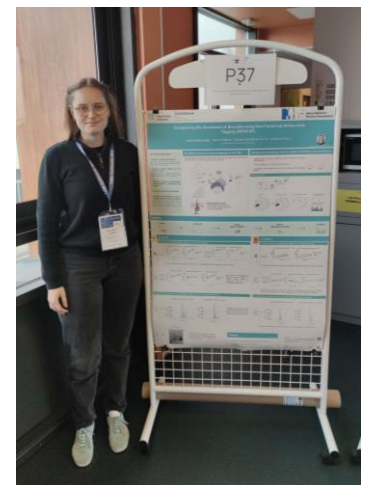
Molecular Biology

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Thanks to the financial help of the SSM I was able to attend the T4SS conference in Nancy, France. The conference focused on structural and functional compartments of the T4SS and translocated elements, such as effectors and plasmids, providing an incredible opportunity to exchange with experts in the field and get valuable feedback to my own project.

In my work, I am establishing bio-orthogonal non-canonical amino acid tagging method BONCAT for the Gram-negative, facultative intracellular pathogen *Brucella*. BONCAT offers an untargeted approach for effector identification to overcome the challenges presented due to the non-canonical nature of the T4SS of *Brucella spp.*, lacking the typical coupling protein VirD4 and having an unknown translocation signal.

At the conference, I presented my poster titled “Deciphering the Secretome of *Brucella* using Non-Canonical Amino Acid Tagging (BONCAT)” and won the audience price for the best poster awarded by the *Société Française de Microbiologie*. The attendance of many *Brucella* experts gave me the opportunity to have insightful scientific discussions and get valuable feedback for my work. I profited immensely from the wide range of knowledge of all attendees and learned about novel techniques and approaches. I especially appreciated the personal interactions which enabled me to establish professional connections.



Poster presentation at International Conference on Type 4 Secretion Systems