



TRAVEL GRANT REPORT

9th Chlamydia Basic Research Society Meeting

Seattle, USA, 18- 21 March 2019

Prokaryotic Biology

Author of report

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Thanks to the financial support of the SSM I had the opportunity to attend the 9th Chlamydia Basic Research Society Meeting (CBRS 2019) which was held in Seattle, USA and gathered experts in the *Chlamydia* field from over the entire world.

The daily sessions at the meeting were grouped by different topics. In the opening session on *Chlamydia* genetics, the speakers gave an update on chlamydial transformation, which was recently developed and now allows genetic modifications of *Chlamydiae*. The following session was on *Chlamydia*-host interactions and mainly focused on the role of *Chlamydia* inclusion proteins during infection. Pathogenesis of *Chlamydia* infection and role of the microbiome session was showing various *in vivo* models for describing *Chlamydia* infection. Finally, the sessions on persistence and chlamydial cell division took place. The latter was of particular interest to me as it is directly linked to my PhD project. Particularly, Junghoon Lee from the University of Nebraska Medical Center gave an interesting talk on the unique features of MreB, the chlamydial division protein.

At the CBRS 2019 meeting, I had the occasion to present my research through a poster, which supported insightful discussions. Our research is aiming at a better understanding of the role of the septal protein RodZ in chlamydial division, via

characterization of its potential interactors SecA, SufD, FtsH and CdaA. The poster consisted of two parts, characterizing the role of SecA, SufD and FtsH proteins in chlamydial division (i) and the link of c-di-AMP synthesis by CdaA protein with division regulation (ii).

