STSM outcome form

STSM application number	Home institution & country	Host institution & country	OneHealthdrugs WG	Objective of the collaboration	Results of the collaboration and related GAPG
COST-STSM-CA21111 E-COST-GRANT-CA21111-a7677848	University of Siena, Department of Biotechnology, Chemistry and Pharmacy (Siena, Italy)	Diamond Light Source Ltd (Harwell Science & Innovation Campus, Didcot, United Kingdom)	WG1	High throughput cloning, production, and crystallization of *Leishmania infantum* calpain (*Li*Clp), a new promising target against Leishmaniasis. The results of this collaborative project will expand the current knowledge on *Li*Clp, a target with a dual importance both as a drug target and as biomarker of environmentally induced alterations of an organism.	In collaboration with Dr. Marco Mazzorana and the Hosting Intuition, HT methods were applied for gene cloning, protein production, and characterization, improving the yield of purified *Li*Clp and obtaining enough protein for structural, biochemical, and biophysical studies. The STSM provided mutual benefits for both the Applicant and the Host Institution, strengthening their collaboration by a collaborative research project and contributed to expand the OHD-1 Target Database, adding a new target that will be shared with the CA21111 members.