

PITA – Pertussis Infection and Transmission in Austria

FFG Bridge project proposal

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Background

- Pertussis infection resurging in AT
- Cases increase in all age groups
- Vaccine coverage high in children

Objective and Methods

Use Whole Genome Sequencing (WGS) together with mathematical modelling to evaluate the current vaccine efficacy and the current vaccination strategy against *B. pertussis* → study and formulate interventions

Expected Results

- Vaccination strategy ineffective (no booster used by population)
- Vaccine does not cover circulating *B. pertussis* strains

Participating Institutions

- AGES, Austrian Agency for Health and Food Safety (scientific)
- BASGK, Federal Ministry of Labour, Social Affairs, Health and Consumer Protection (stakeholder, vaccine programme)
- GSK, GlaxoSmithKline plc (stakeholder, vaccine producer)

Expected Costs and Duration

- 18 months, start in July 2019
- 2 PhD students (75% time; 1 microbiologist, 1 mathematician)
- Total cost: 166,901.59 EUR
- Expected FFG funding quote: 60%