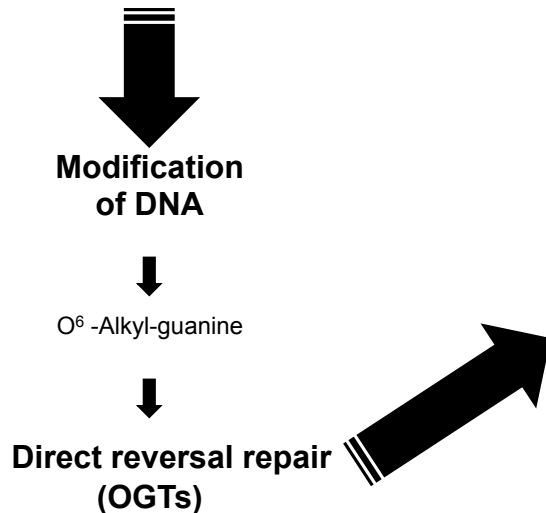
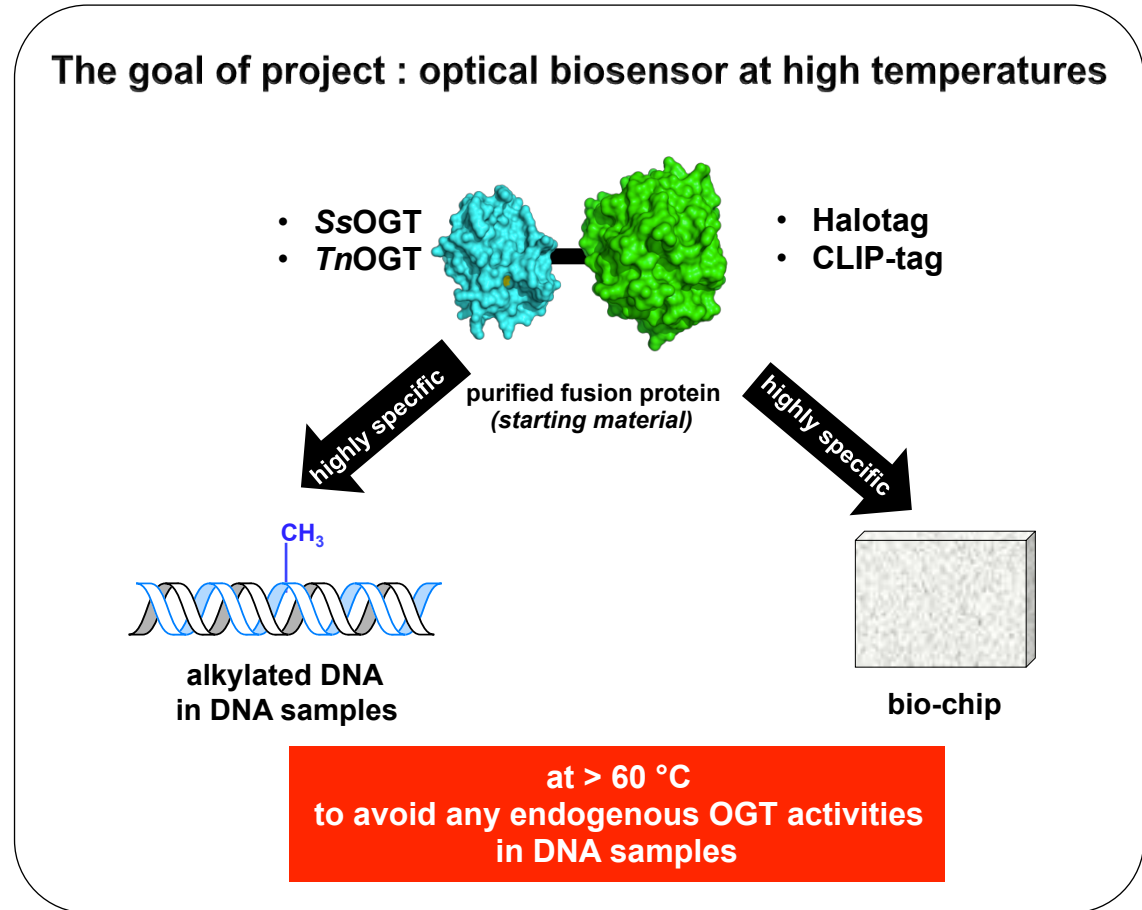
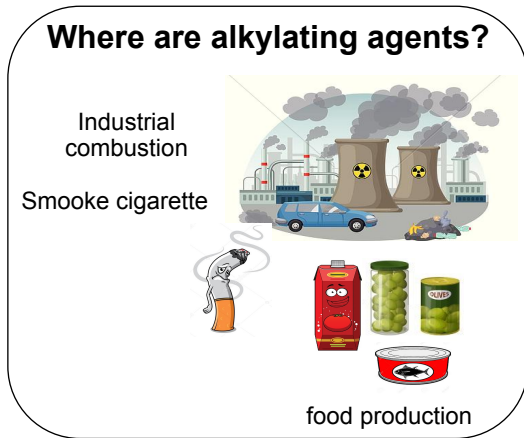
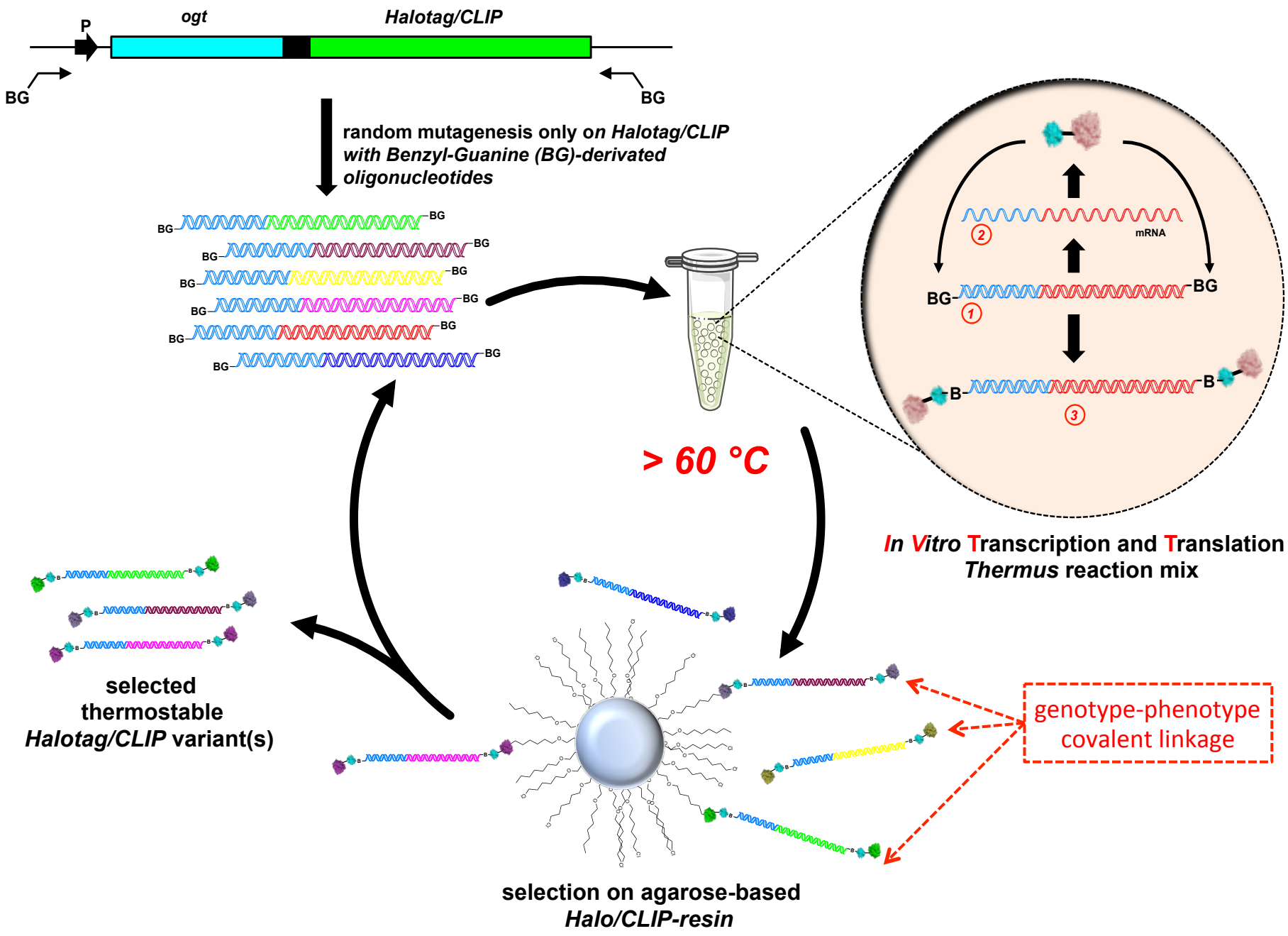


Development of a new enzyme-based biosensor for detection of damaged DNA by using the *thermo*SNAP-display technology

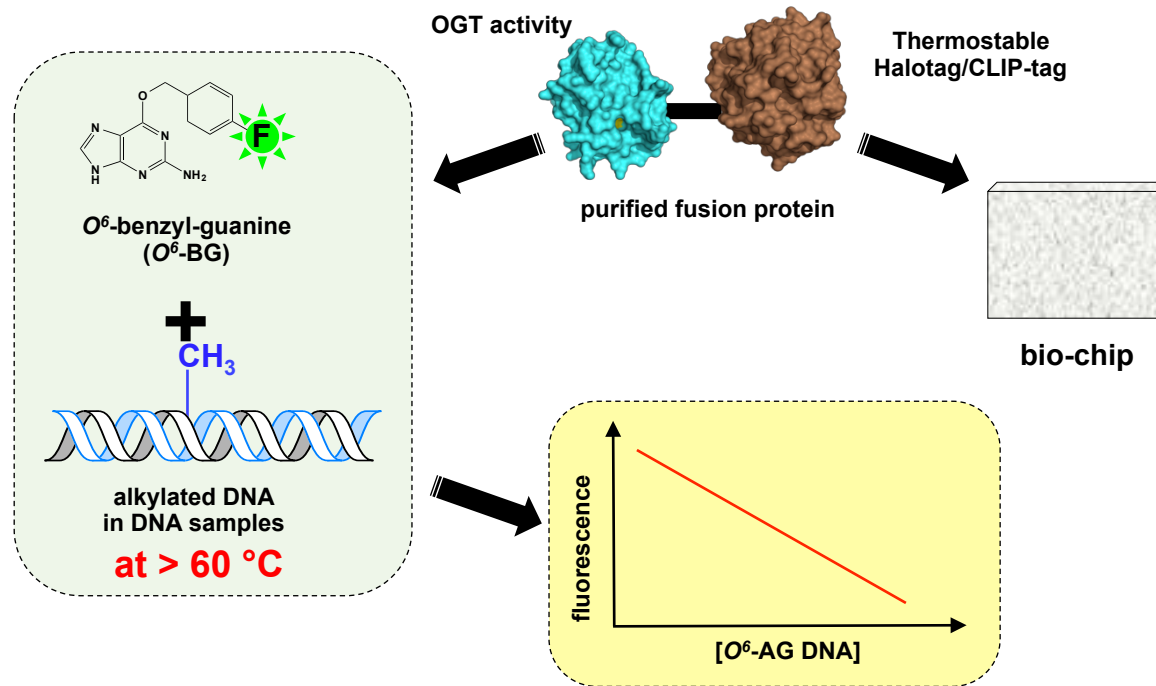
PhD in Biotechnology, XXXIII cycle



Selection of a thermostable variant of the chimera by a *Thermo*SNAP-display



The production of a Bio-chip based on a chimera



Expect results

The project is expected to provide the following results:

- Obtain a thermostable recombinant chimera;
- characterization enzymatic of *SsOGT-Halotag* protein.
- Expression *SsOGT-Halotag/CLIP-tag* in *Thermus thermophilus* HB27;
- obtain a library of *SsOGT-Halotag/CLIP-tag* mutants;
- selection of thermostable variants with *thermo*SNAP-display.
- Bio-chip construction and development;
- testing the thermostable variant of chimera with alkylated DNA samples.