IGEM PROJECT – temporary detailed description

	In vivo	**Modeling**	
To find	- Plasmid/sequence of the functional LovTAP protein. Ask Bart/Seb how to do to obtain it (Basile). If not possible (cf. next square)	- Domain LOV - TrpR protein => both directly usable on modeling programs (PDB files)	- Domain LOV - Domain of another DNA binding protein (Tú, Basile, Christian, Nicolas, Gab, & Nath=>find ideas till Thursday (or Tuesday next week or Bart/Sebastian are interested on one particulary)) => both directly usable on modeling programs (PDB files)
To do	If DNA sequence not available: (first than…) - Take sequence of both domains (LOV & TrpR) on the web. - Fuse DNA sequence at the right place. (cf. article) - Assay (DNA protection assays) to assess the in vitro functionality of the fusion protein. If DNA sequence is directly available: - (…)Express it in E.Coli. - Define a genetic circuit to switch on/off genes and implement it (also to be expressed in E.Coli)(Gab). - Characterize the whole system: Amount of light to have a perceptible output Reaction kinetic	E-mail to Matteo Dal Peraro (Nico): See if an assistant can help us (Matteo Thomas Degiacomi ?) - Begin modeling => as done in the article first of all, than improvement (?)	- Model it the same manner as it will be done with LovTAP

Attending people: Tú, Gabriela, Chrisitan, Basile, Nicolas, Nathalie

Meeting summary, 19th May 2009