

SPLITTERA is a versatile protein engineering tool that induces the conjugation of proteins through the formation of new peptide bonds, both *in vitro* or *in vivo*, via protein trans-splicing (PTS).

Split Intein mediated Protein Ligation



- Extremely fast and highly specific
- High yields with minimum aa requirements
- 4 different orthogonal pairs of inteins
- Active under physiological conditions
- Proprietary and fully protected – WO2013/045632

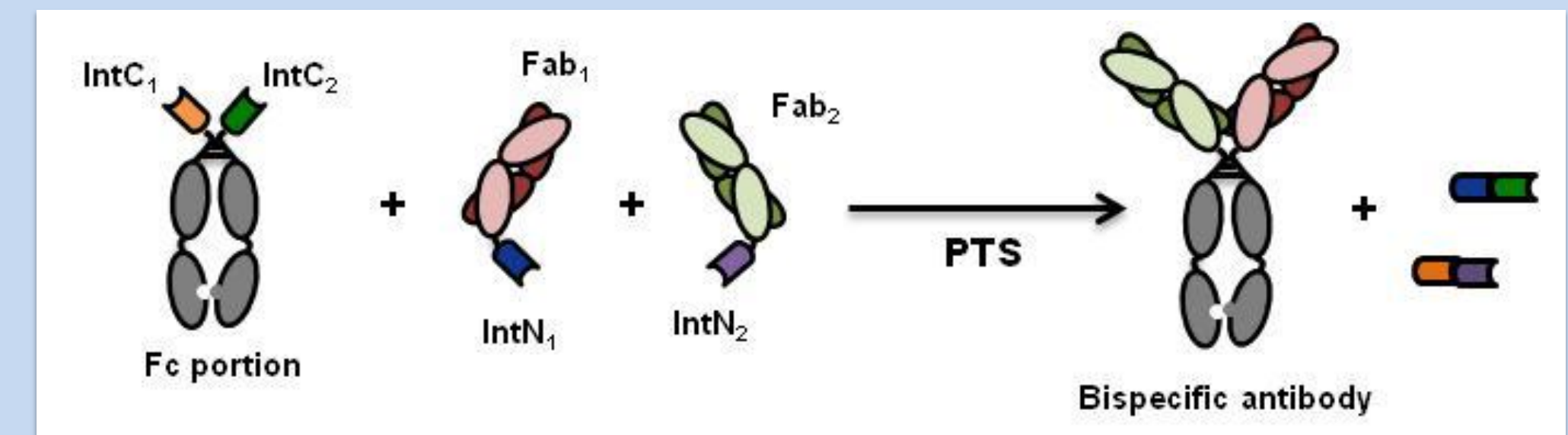
SPLITTERA is a tool for site-specific protein modification, both *in vivo* and *in vitro*, by forming a covalent bond between a protein and any kind of molecule such as other proteins, fluorescent probes, peptides, DNA or chemical compounds.

APPLICATIONS

- Generation of bispecific antibodies
- Conjugation of a fluorescent probe to the N- or C-terminus of a protein
- Generation of large libraries of cyclic peptides for drug discovery
- Generation of high molecular weight protein-based polymers
- Reconstitution of toxic proteins *in vitro*

GENERATION OF BISPECIFIC ANTIBODIES

SPLITTERA orthogonal split inteins allow to obtain bispecific antibodies by conjugating two different Fabs to the Fc portion of an antibody in a fast and simple reaction.



Other strategies are also possible, using a single pair of split inteins.

