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Dipartimento di Scienze Chimiche

*Area di ricerca: link fra **chimica organica e biochimica***

Conoscenze richieste: (per biotecnologie industriali)

Corso di *nanosistemi*, corso di *biotecnologie industriali*

Capacità acquisite nell'internato di Tesi:

- *protocolli di chimica organica per funzionalizzare biomolecole*
- *protocolli di purificazione dei composti preparati*
- *protocolli caratterizzazione chimico fisica dei composti preparati*

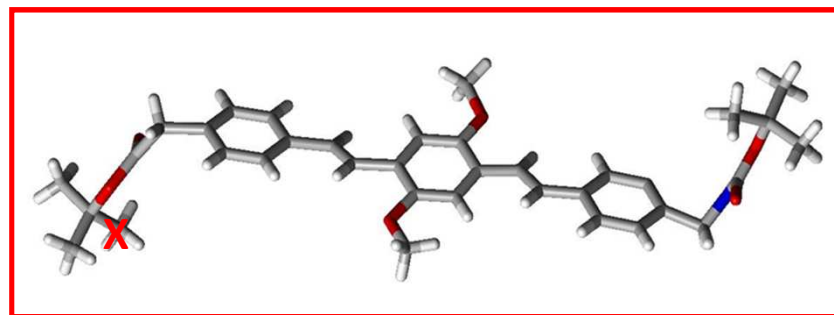
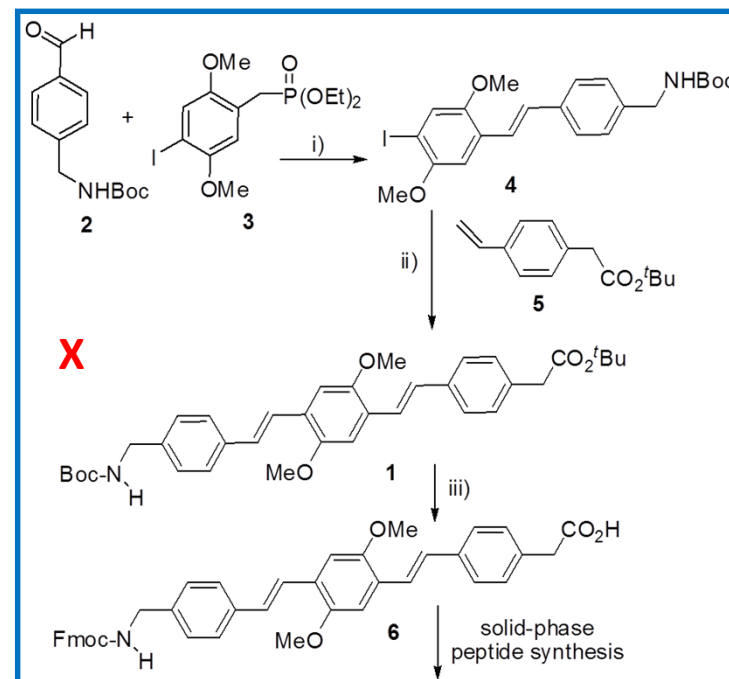
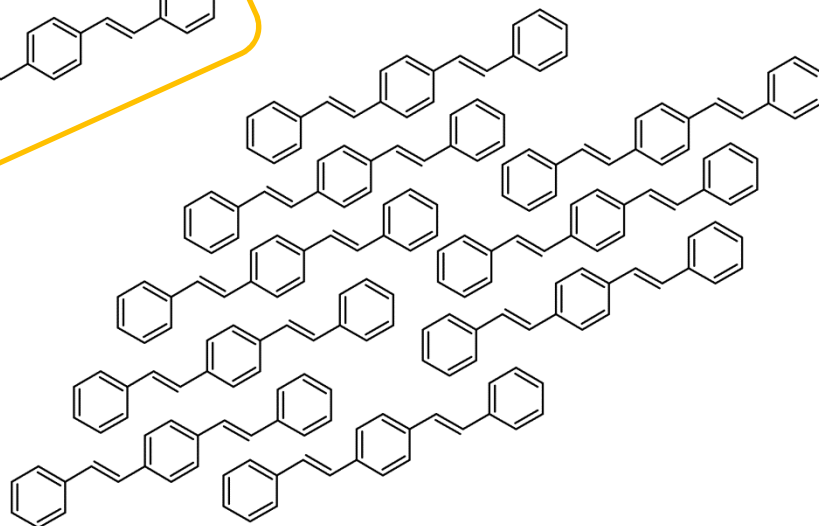
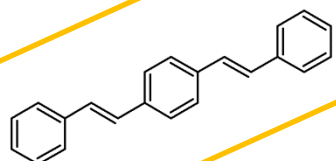
Preparazione e studi di nanosistemi precettati per interagire con molecole biologiche

Parte biochimica presso i Laboratori del Prof Emanuele Papini

Protocolli di coagulazione ed emolisi.

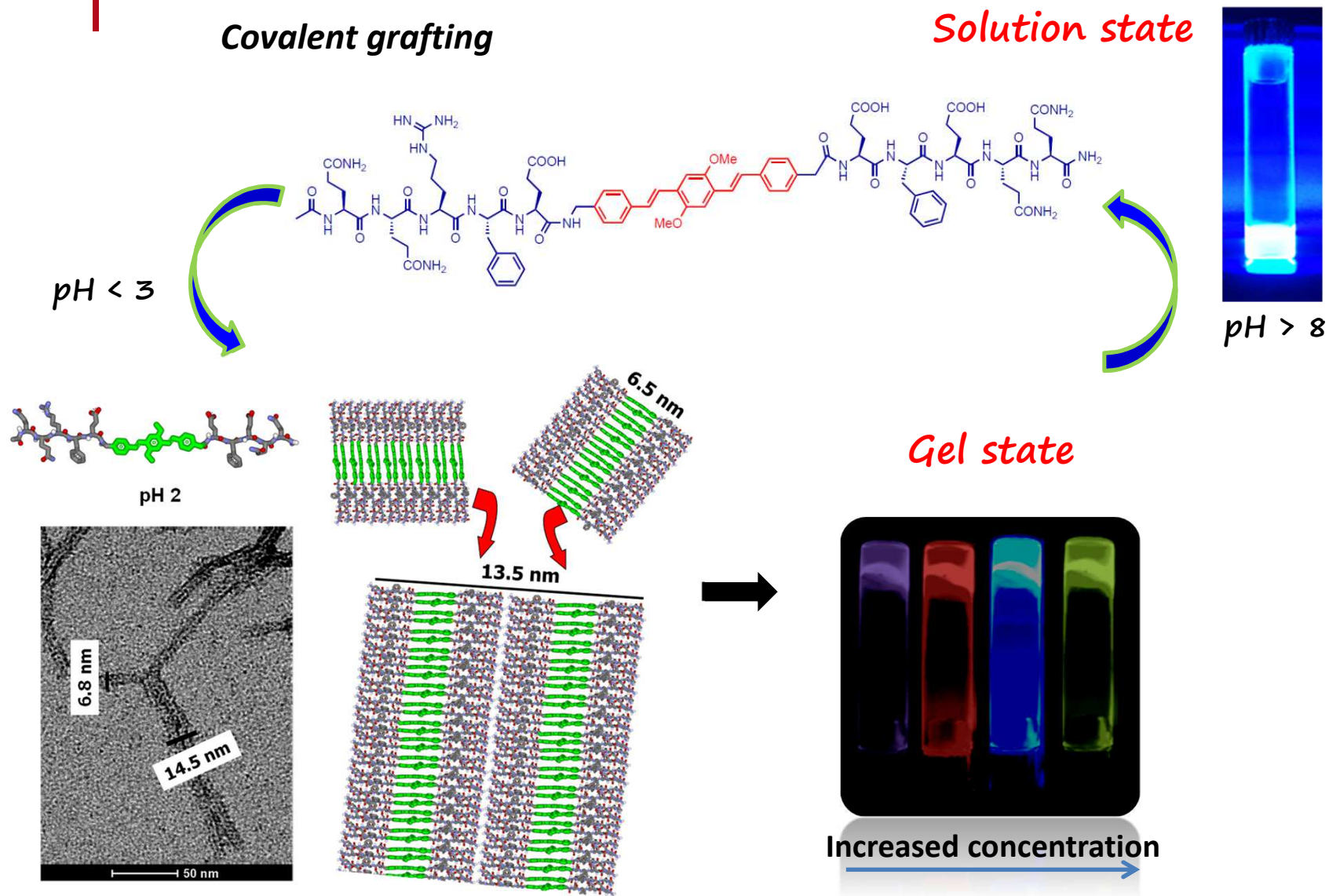
Microstructure from β -sheets: molecular electronics

Functionalized **oligo**(*p*-phenylenevinylene)s (OPV)



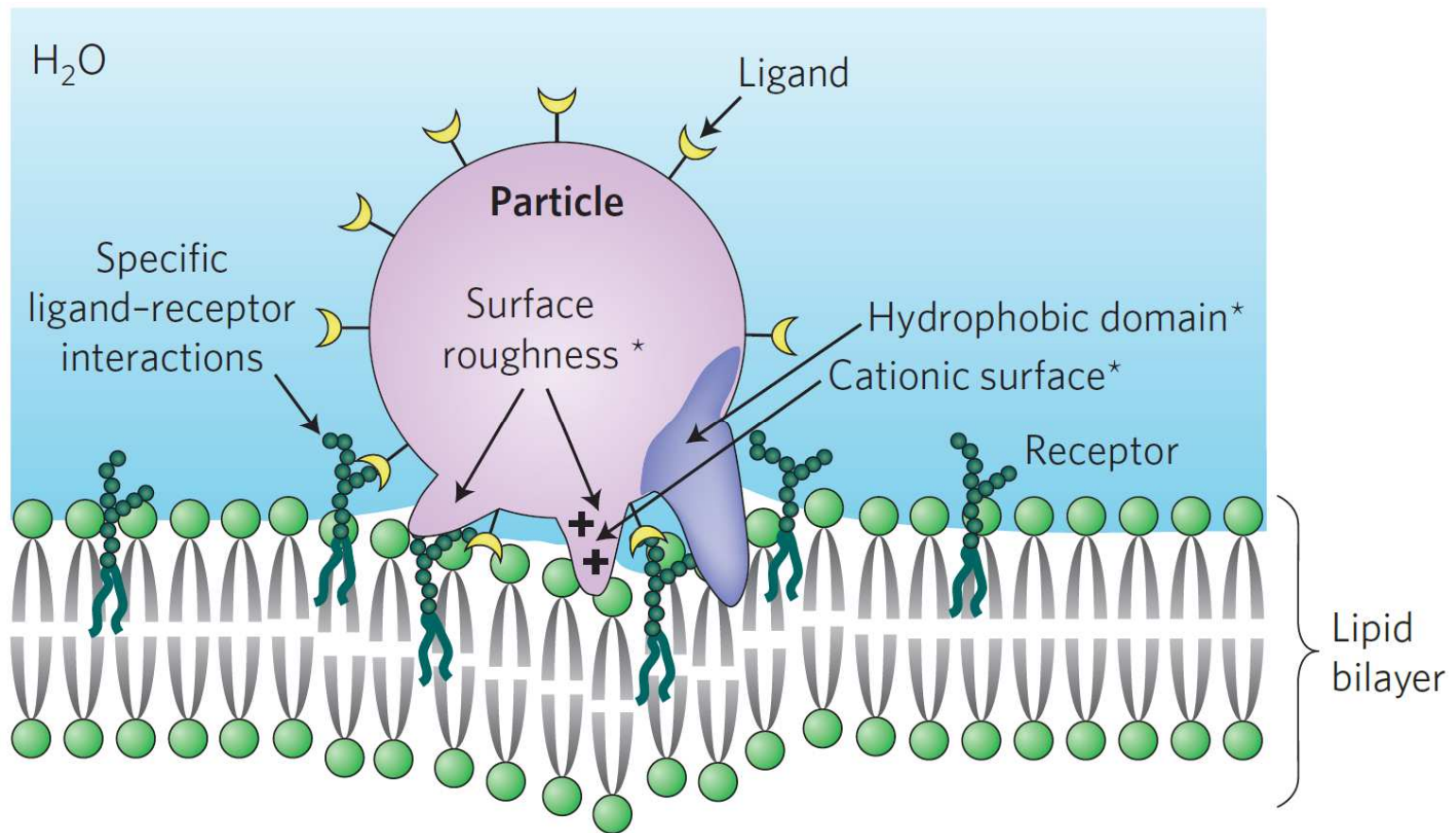
This OPV amino acid might serve as a replacement for five α -amino acid units in a β strand.

Microstructure from β -sheets: molecular electronics

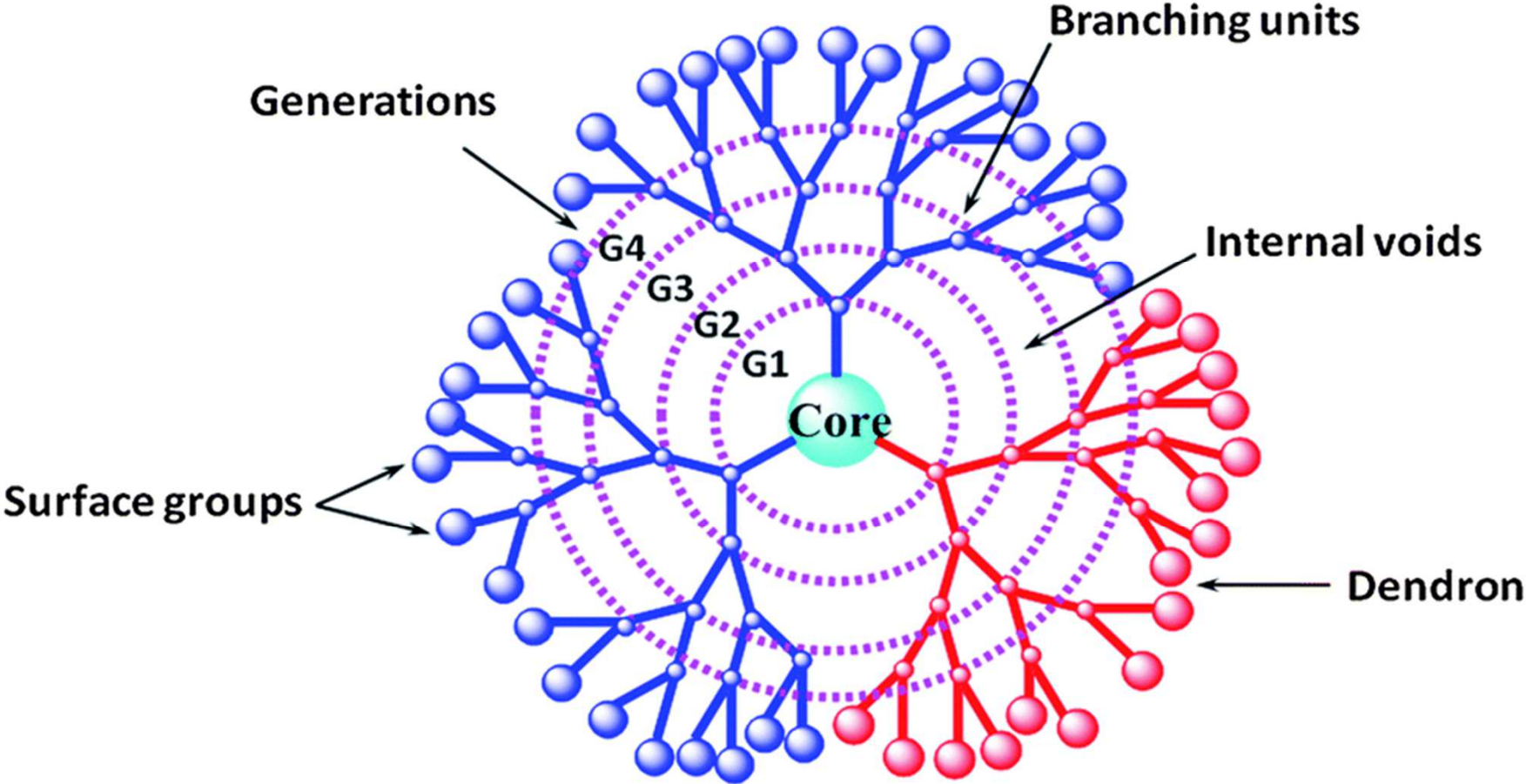




Representation of receptor-mediated uptake

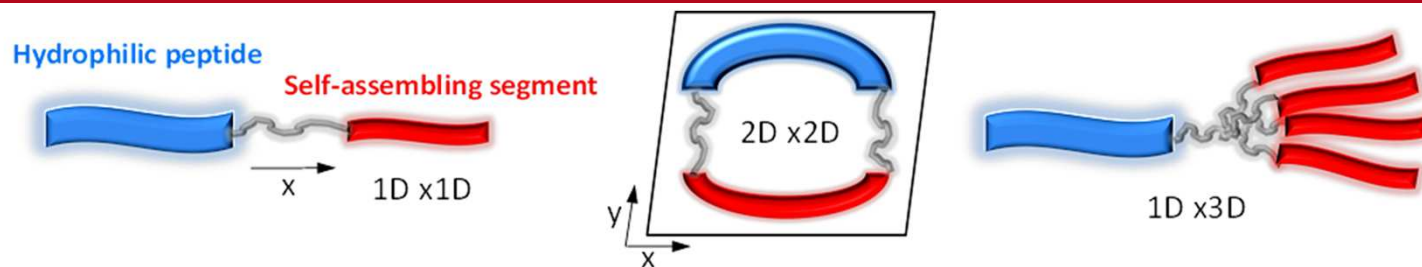


Dendrimeri





Molecular self-assembly



THIS PROPOSAL

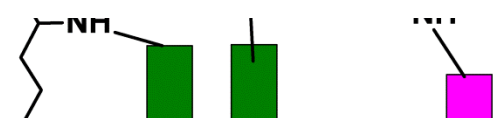
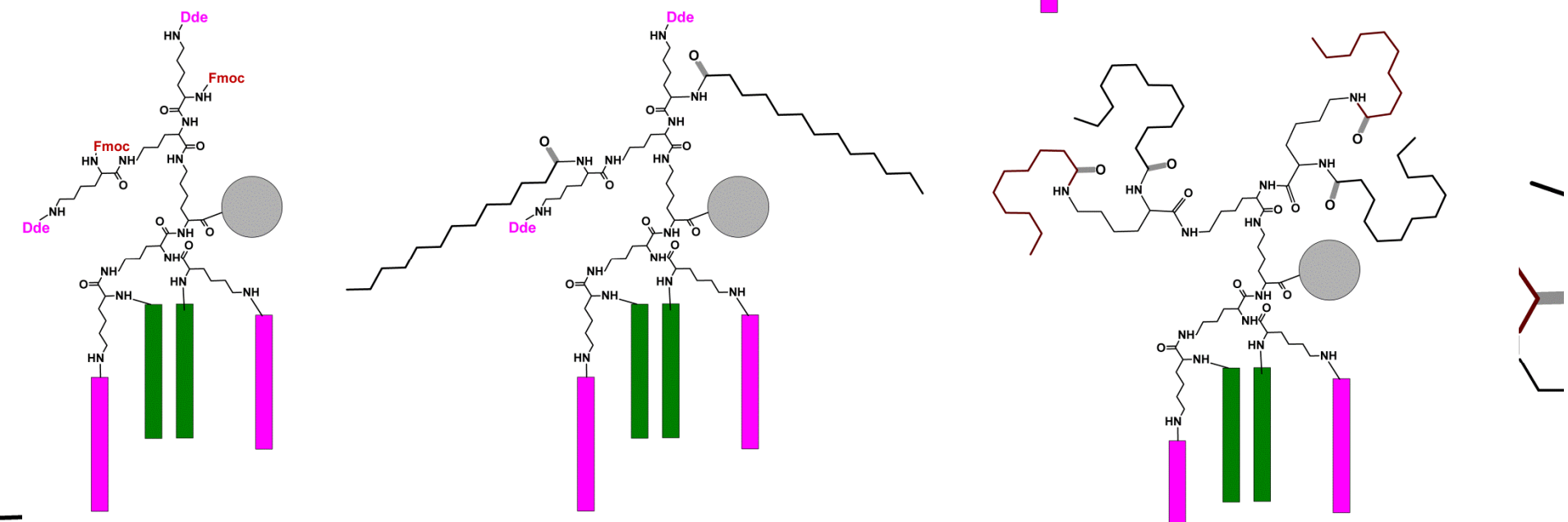
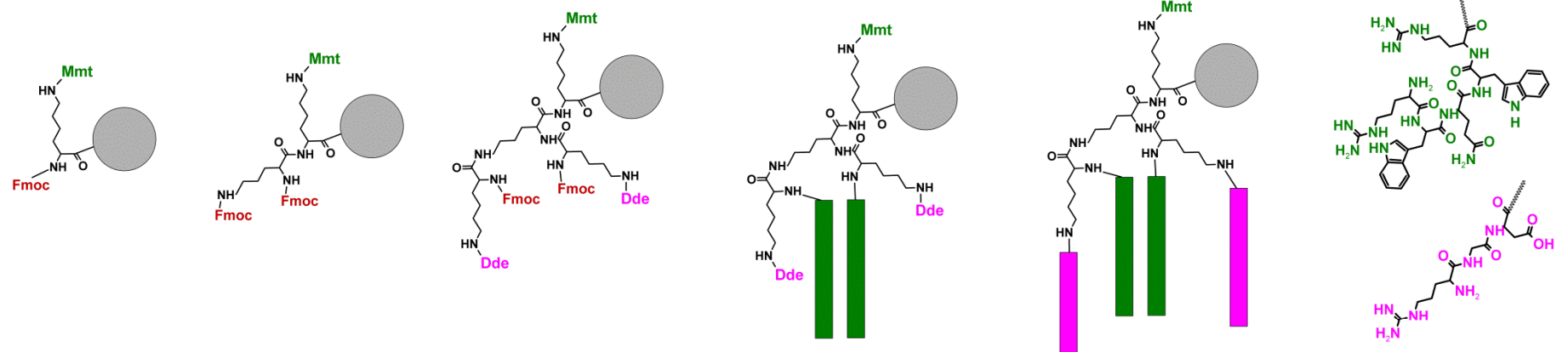
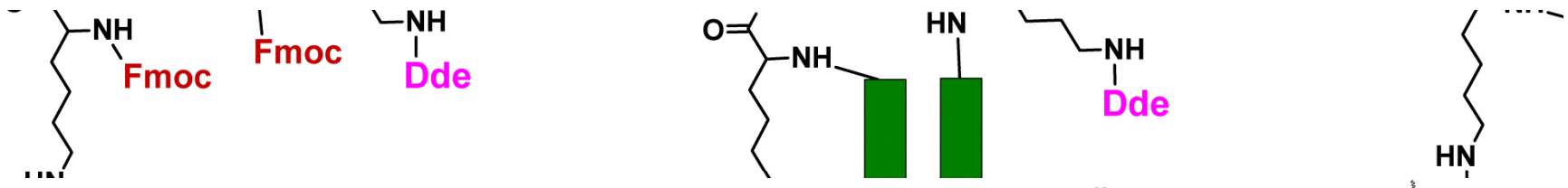
3D x 3D

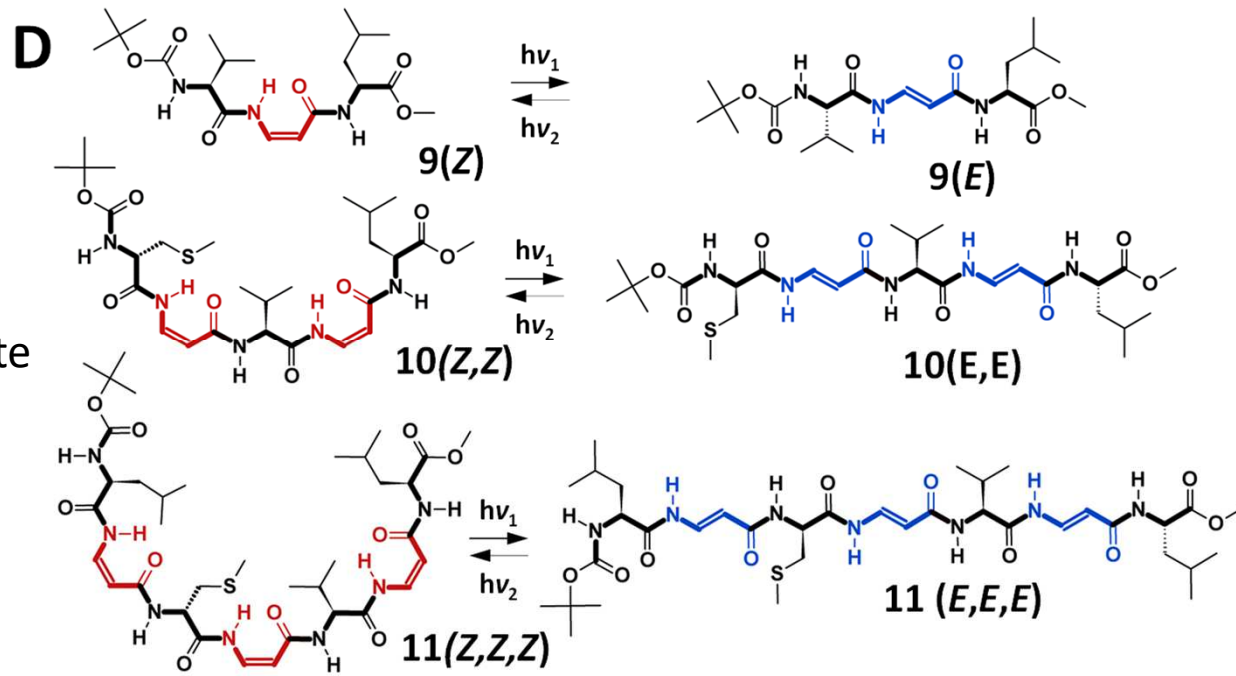
CO-ASSEMBLY

Multivalence

SUPERMULTIVALENT MATERIALS: VERY HIGH DENSITY OF LIGANDS PER UNIT AREA DUE TO THE COMBINED EFFECT OF SUPRAMOLECULAR AND UNIMOLECULAR MULTIVALENCY.

This proposal will provide novel self-assembling peptide building blocks that can be further developed to fabricate complex bottom-up materials with sophisticated functions.





Specie dormiente

Specie attiva

