Marie Skłodowska-Curie Actions

Research and Innovation Staff Exchange (RISE) Call: H2020-MSCA-RISE-2014



INPACT

<u>Innovative peptides against cancer and pathogenic bacteria</u>

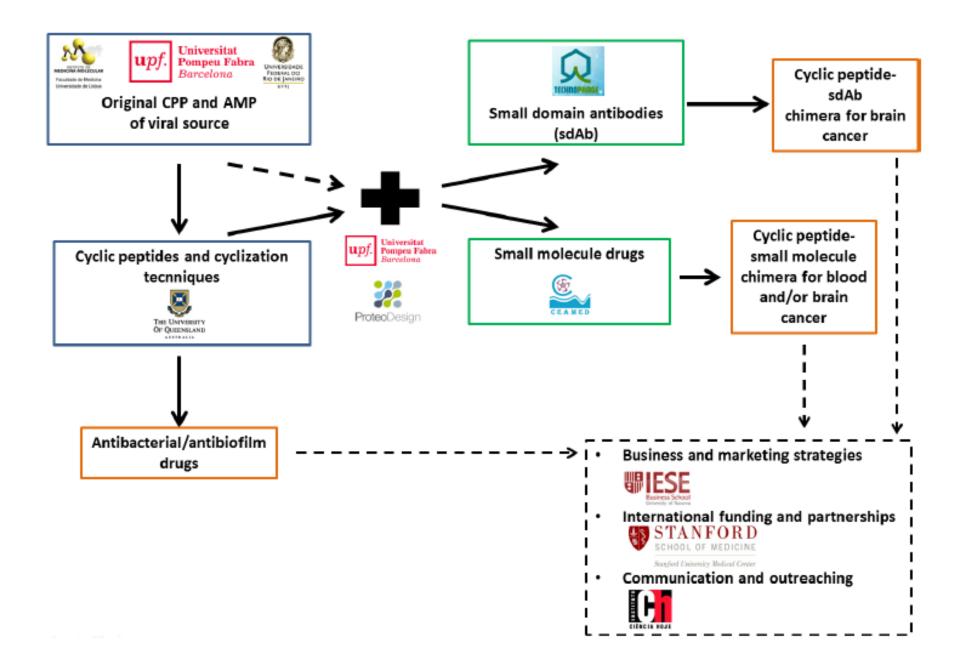
- with advances in science, biopharmaceutical drug development, product market targeting, training, and communication.

Miguel A. R. B. Castanho

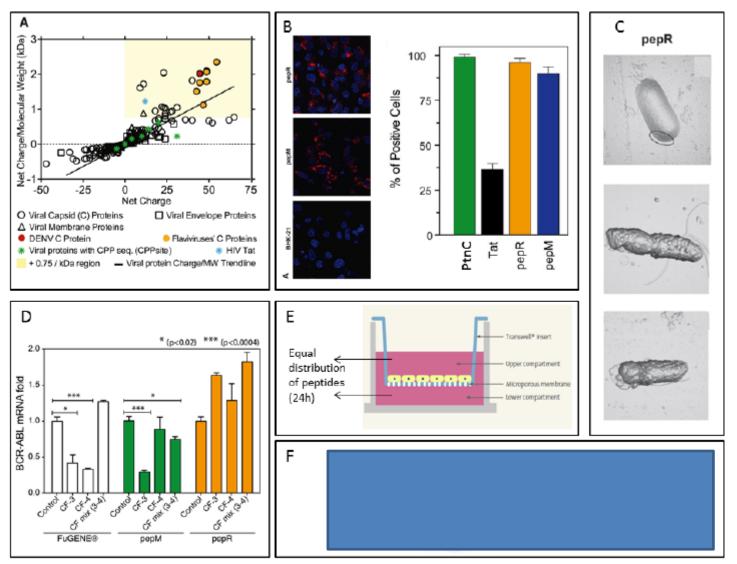
FACULDADE DE MEDICINA LISBOA



A consortium of experts with own technology



A consortium built on previous collaborations and results



(Part of the data in this figure is yet unpublished - privileged confidential information)

Addressing specific needs

(a)	Development of resistance	(b)
Penicillin (1942) Streptomycin (1947) Tetracycline (1952) Vancomycin (1958)	Penicillinase spread (1945) Transferable penicillinase in Ginococcus (1976) Streptomycin resistance (1947) Tetracyclineresistance (1956) Rearly used until the mid 1980s Vancomycin-resistant Enterococcus (VRE) (1987)	20 5 5 15.
Methicillin (1959) Cephalothin (1964) Gentamicin (1967)	Vancomycin resistant Enterococcus (VRE) (1987) Vancomycin intermediate resistant S. aureus (VISA) (1996) Methicillin-resistant S. aureus (MRSA) (1961) Community-acquired MRSA (1999) Cephatothin resistance: 1st cephalosporin (1966) Gentamicin resistance (1970)	рело 10. de 50
Cefotaxime: FDA approved (1981) Imipenem, 1st carbapenem (1984) Linezolid, first oxazolidinone:	Cefotaxime resistance (1983) First outbreak of 3rd cefalosporin-resistant K. pneumoniae (1987) Carbapenem-resistant Acinetobacter baumanil (1998) Linezolid-resistant S. aureus and VRE (2001)	1983-1987 1988-1992 1993-1997 1998-2002 2003-2007
FDA approved (2000)		Period (Year)

Development of antibiotics



RISE vs ITN:

» ITN: 2 ESR, 3 yrs = 72 fellows*months (discount rotations, outreaching, courses, etc)

» Success rate

- » Ease of combination with on-going projects
- » Administrative burden and simplicity of the funding scheme

