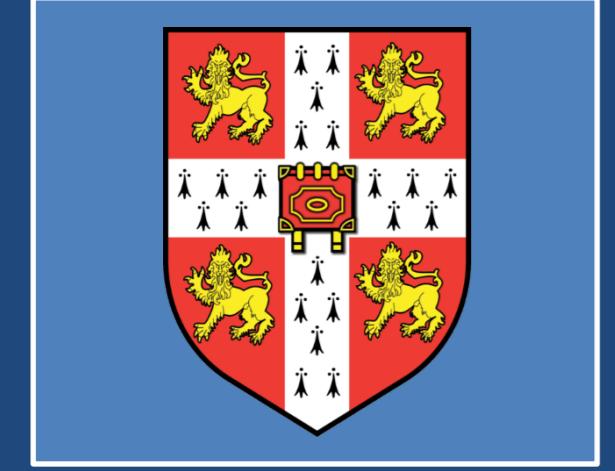
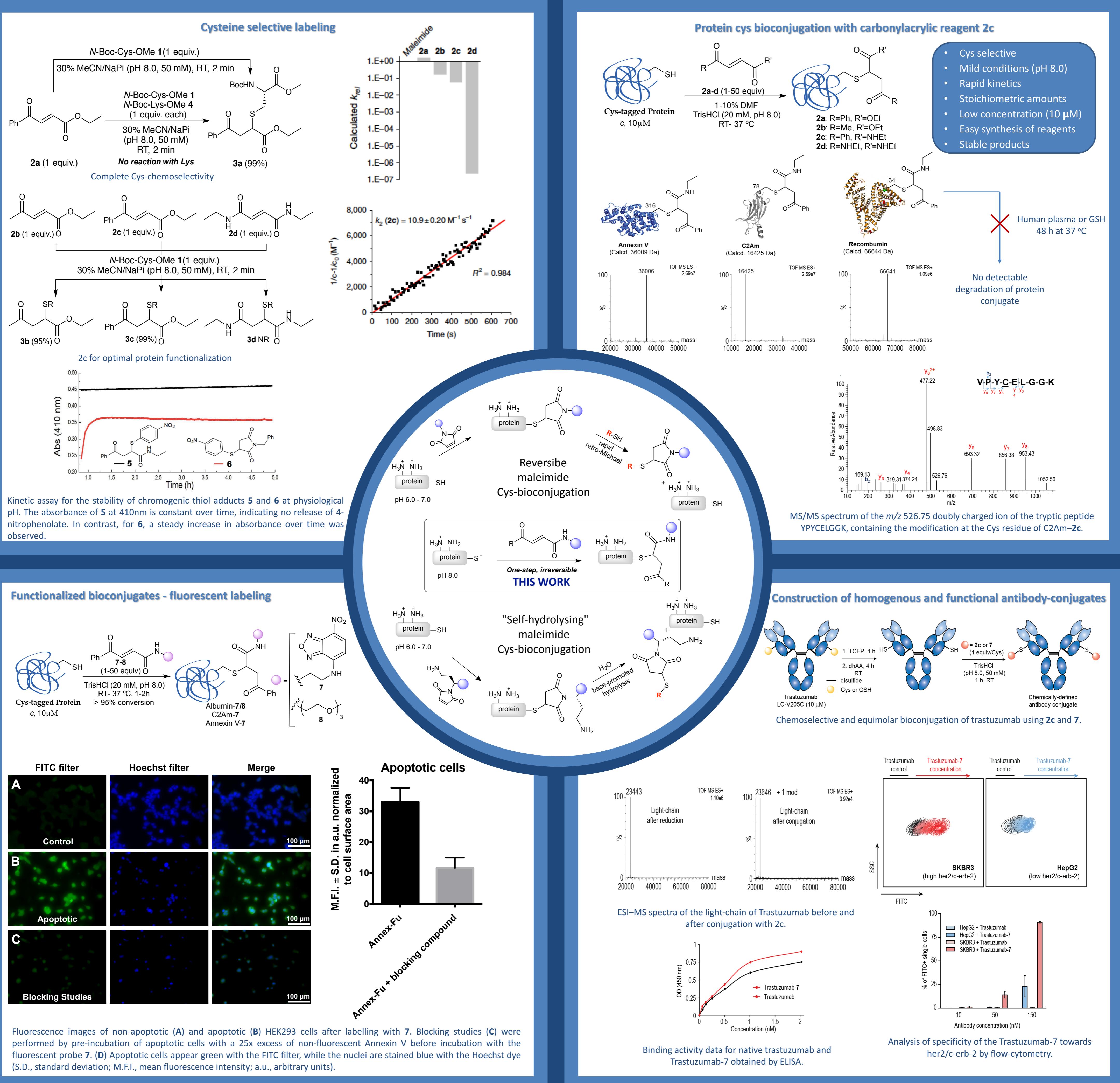


CYSTEINE CHEMOSELECTIVE LIGATION WITH CARBONYLACRYLIC REAGENTS FOR THE CONSTRUCTION OF FUNCTIONAL BIOCONJUGATES

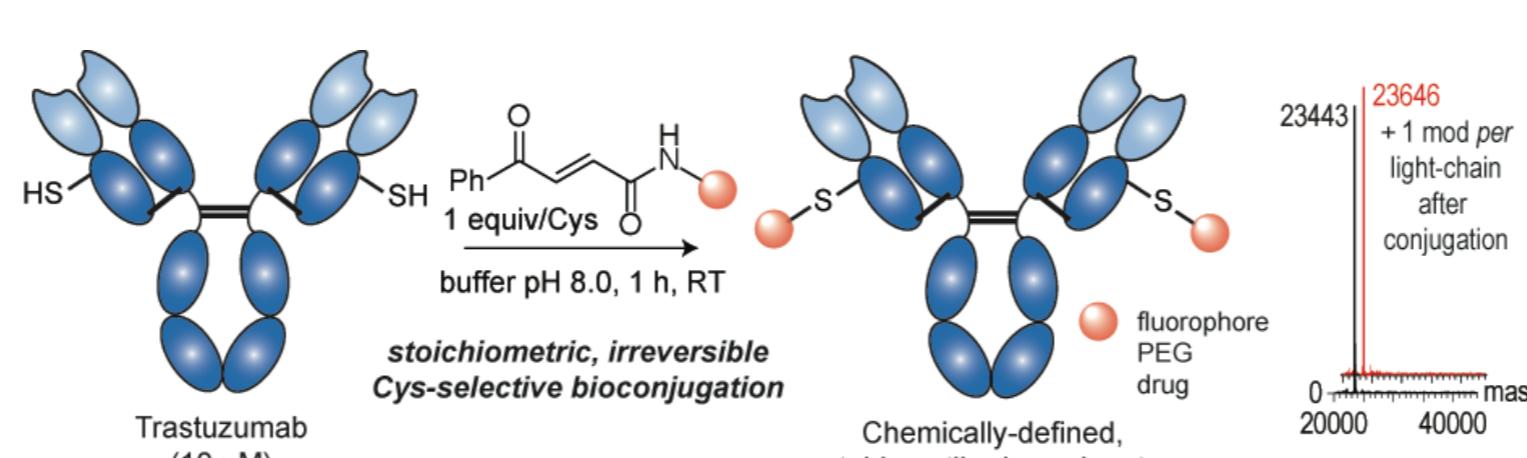


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CONCLUSIONS

A direct and irreversible Cys-selective bioconjugation is reported using simple carbonyl acrylic reagents. The conjugates are fully stable when exposed to GSH and plasma, and retain their function, as evidenced by the selective imaging of apoptotic and high expression her2+ cells. The direct chemoselective and irreversible Cys-conjugation technology disclosed herein will find significant use for the preparation of imaging and therapeutic conjugates for *in vivo* purposes.



Bernardes et al. *Nature Commun.* 2016, DOI: 10.1038/ncomms13128

ACKNOWLEDGEMENTS

FAPESP (2012/22274-2; BEPE 2015/07509-1 to B.B. and A.C.B.B.), Xunta de Galicia (M.J.M.), FCT Portugal (G.J.L.B.; P.M.S.D.C.; I.A.), the EU (Marie-Sklodowska Curie ITN Protein Conjugates), and the EPSRC for funding.

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