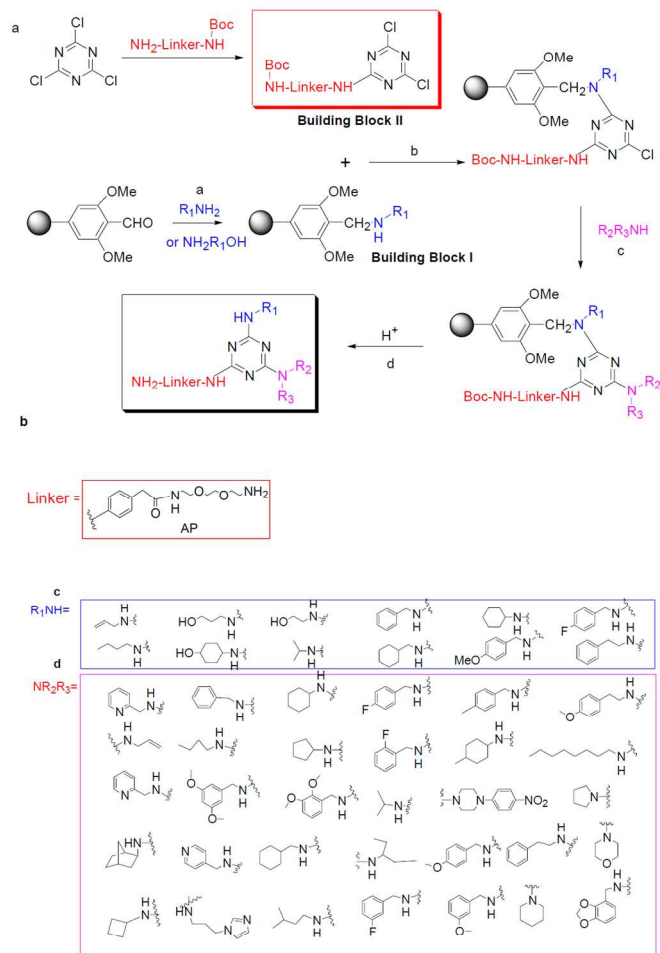


Supplementary information scheme 1



Supplementary Scheme 1: Synthesis of the AP linker library. **a)** General scheme for orthogonal synthesis reagents and conditions: (a) R_1NH_2 or R_1NH_2OH (5 eq), 2% acetic acid in THF, rt, 1 hr, followed by $NaB(OAc)_3H$ (7 eq), rt, 12 hr. (b) Building block II (4 eq) in THF 60°C, 1 hr, DIEA. (d) R_2R_3NH , DIEA, NMP:n-BuOH=1:1, 120°C, 3 hr. (e) 10% TFA in dichloromethane, 30 min. **b)** Linker **c)** Amines and amino alcohols used for construction of building blocks I and **d)** Amines used for construction of building blocks III.