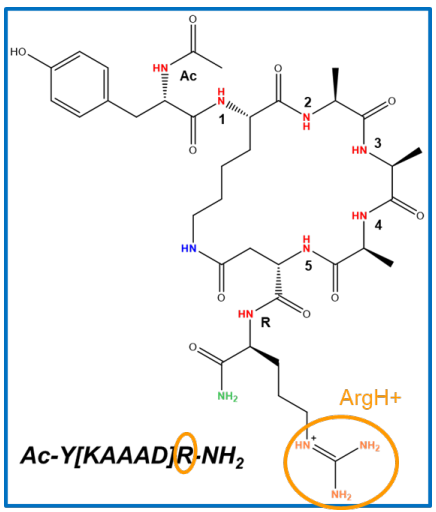
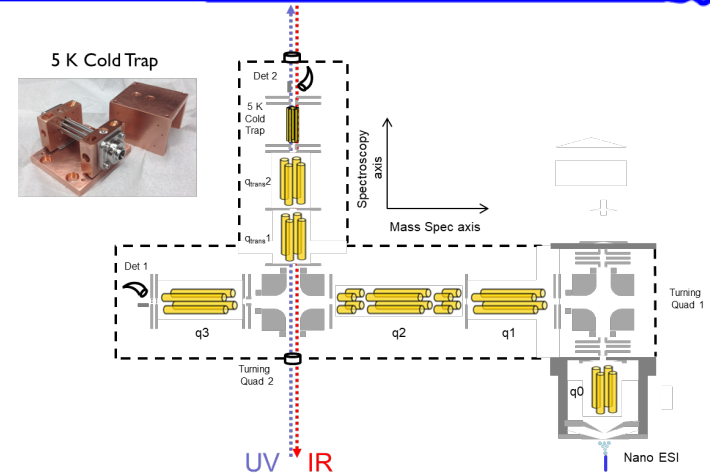
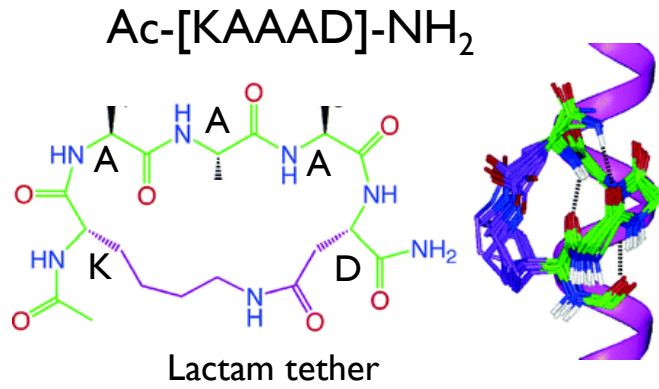
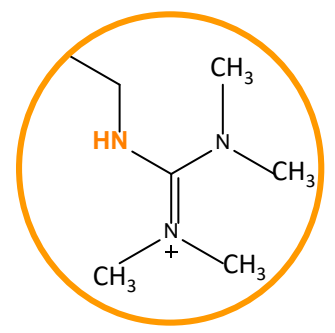


P4863: INFRARED SPECTROSCOPY OF SINGLE-TURN AND DOUBLE-TURN α -HELICES IN THE GAS PHASE

Timothy Zwier, John Lawler, Timothy Hill, David Fairlie, Scott McLuckey. Purdue / Univ. Queensland / Sandia



Position of charge?

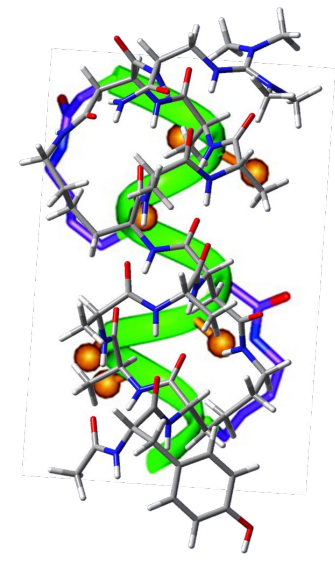


Ac-Y[KAAAD]X1-NH₂
F / F / C10/C10/C10 / C13/C13 / C6 / C10,F/F
Ac / Y / K / A / A / A / D / X1 NH⁺ / NH₂ / Tether
Right-handed helix

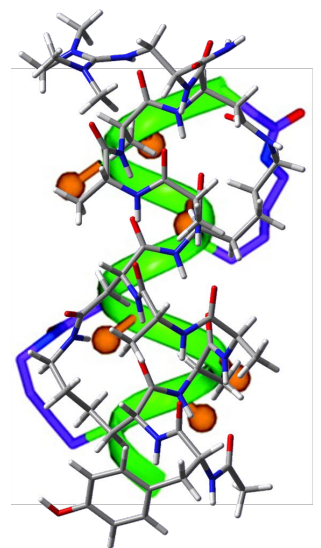
Ac-y[kaaad]X1-NH₂
F / F / C10/C10 / C13/ C13/C10 / C16 / C10,F/F
Ac / y / k / a / a / a / d / X1 NH⁺ / NH₂ / Tether
Left-handed helix

Modified charge site: Control
handedness of helices
Not a pure α -helix

LL
Fully
RH
 α -Helix



DD
Fully
LH
 α -Helix



Concatenated helices:
Pure α -helices!