

Crystal structures of host-guest complexes of carboxylated pillar[5]arene with drugs

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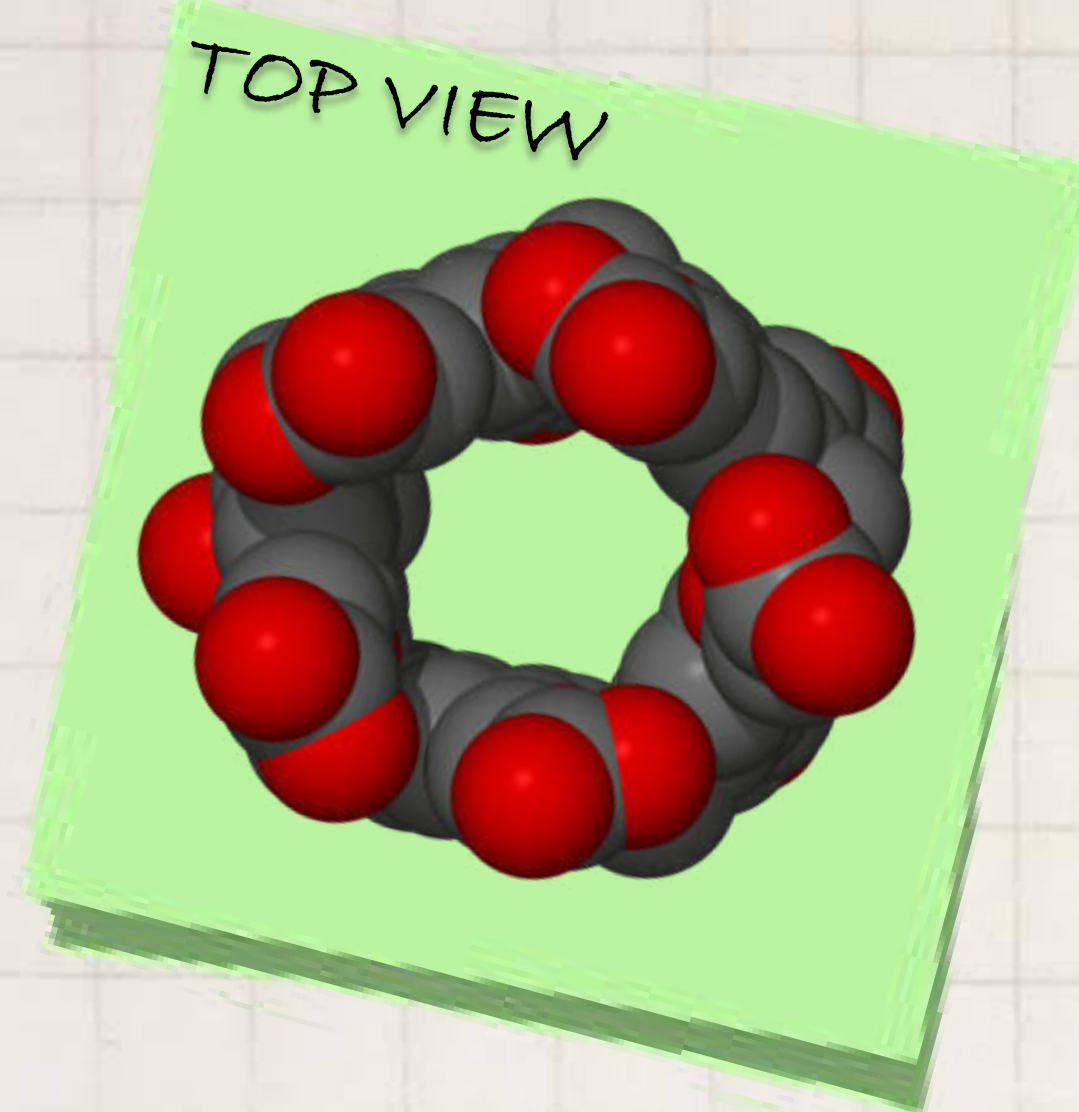
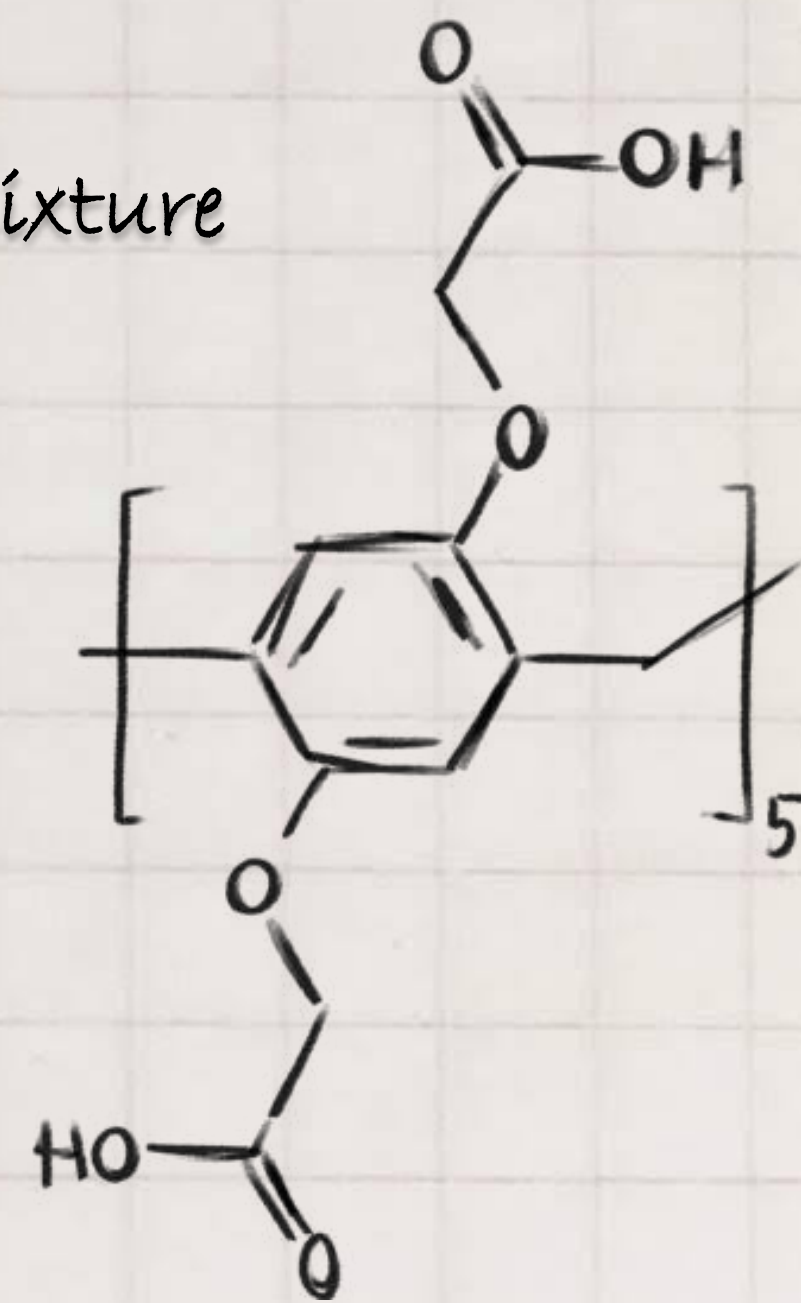
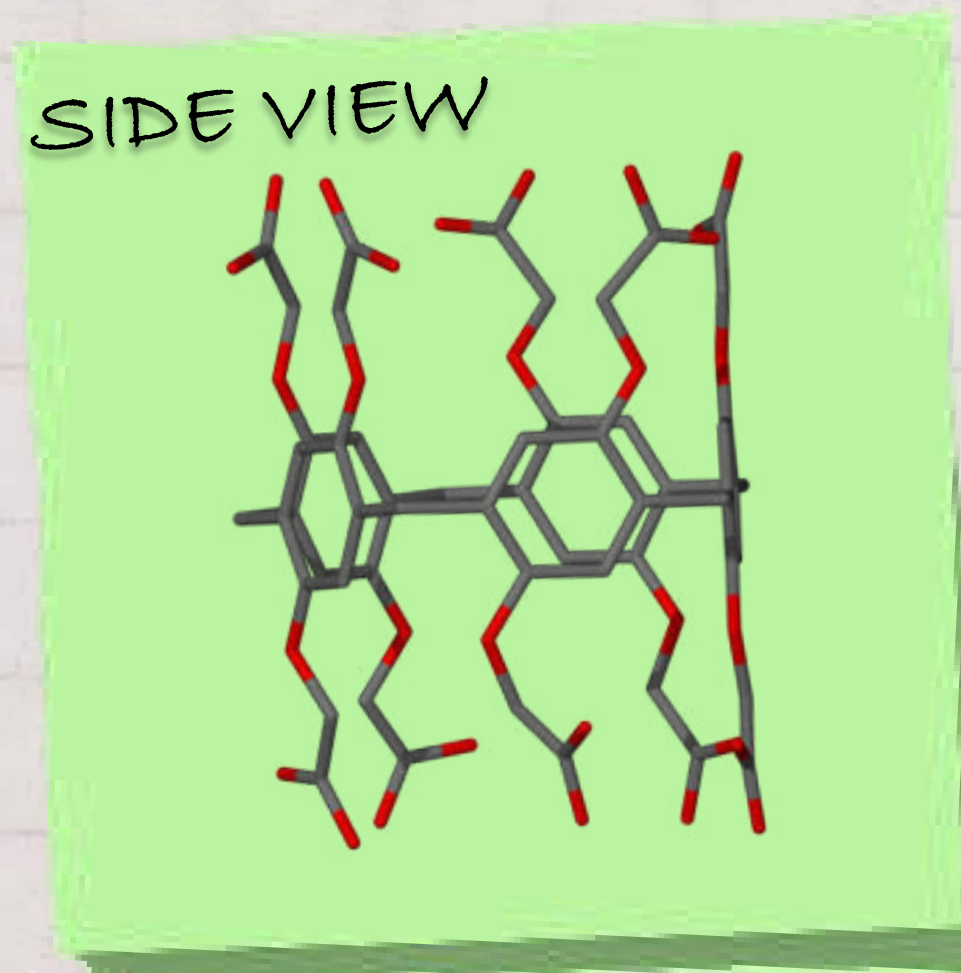
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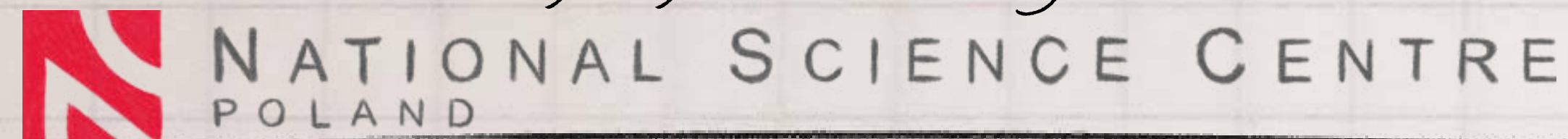
1. Carboxylated pillar[5]arene (CPA5)

- Soluble in water in the anionic form
- In the neutral form soluble in water-ethanol mixture

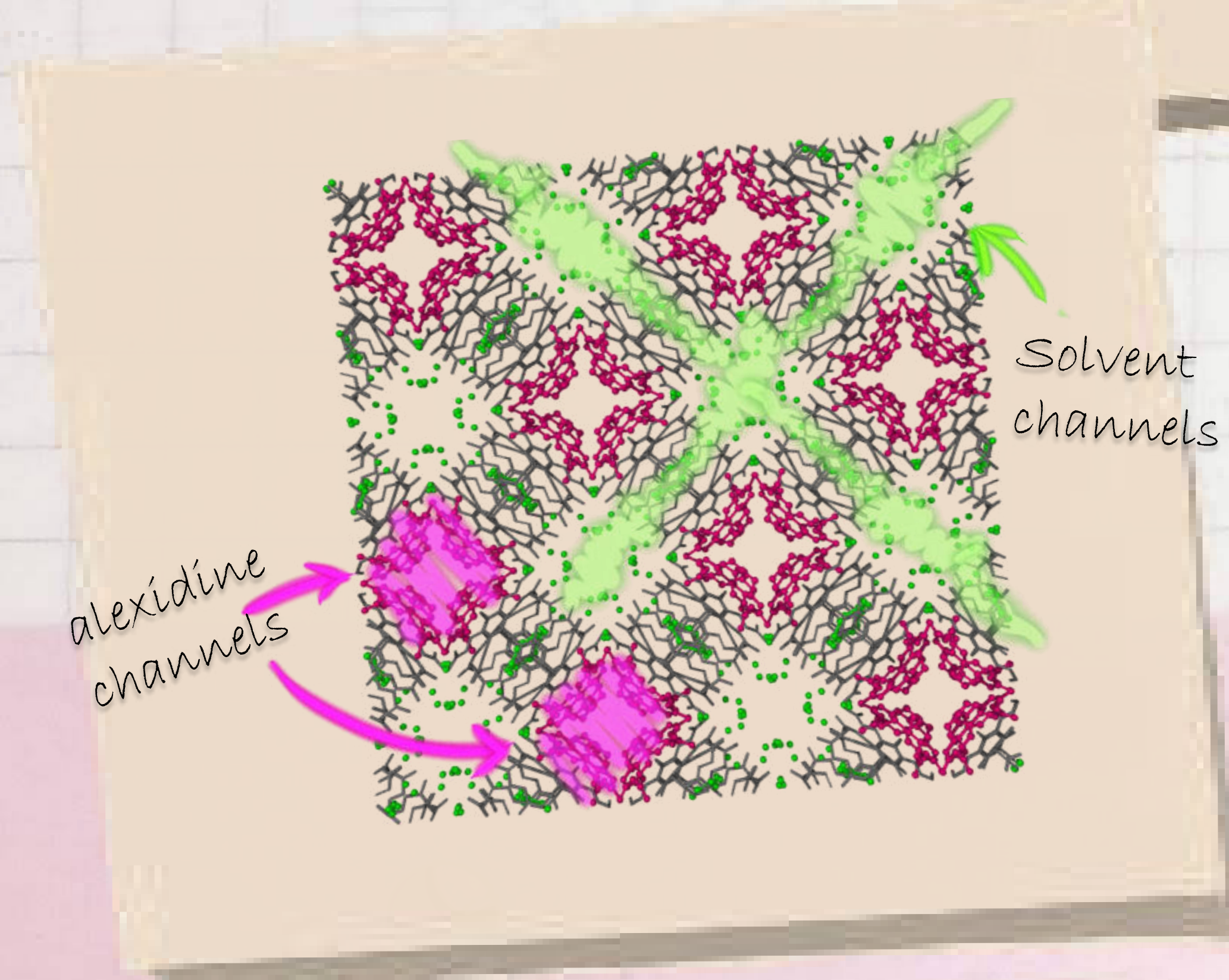
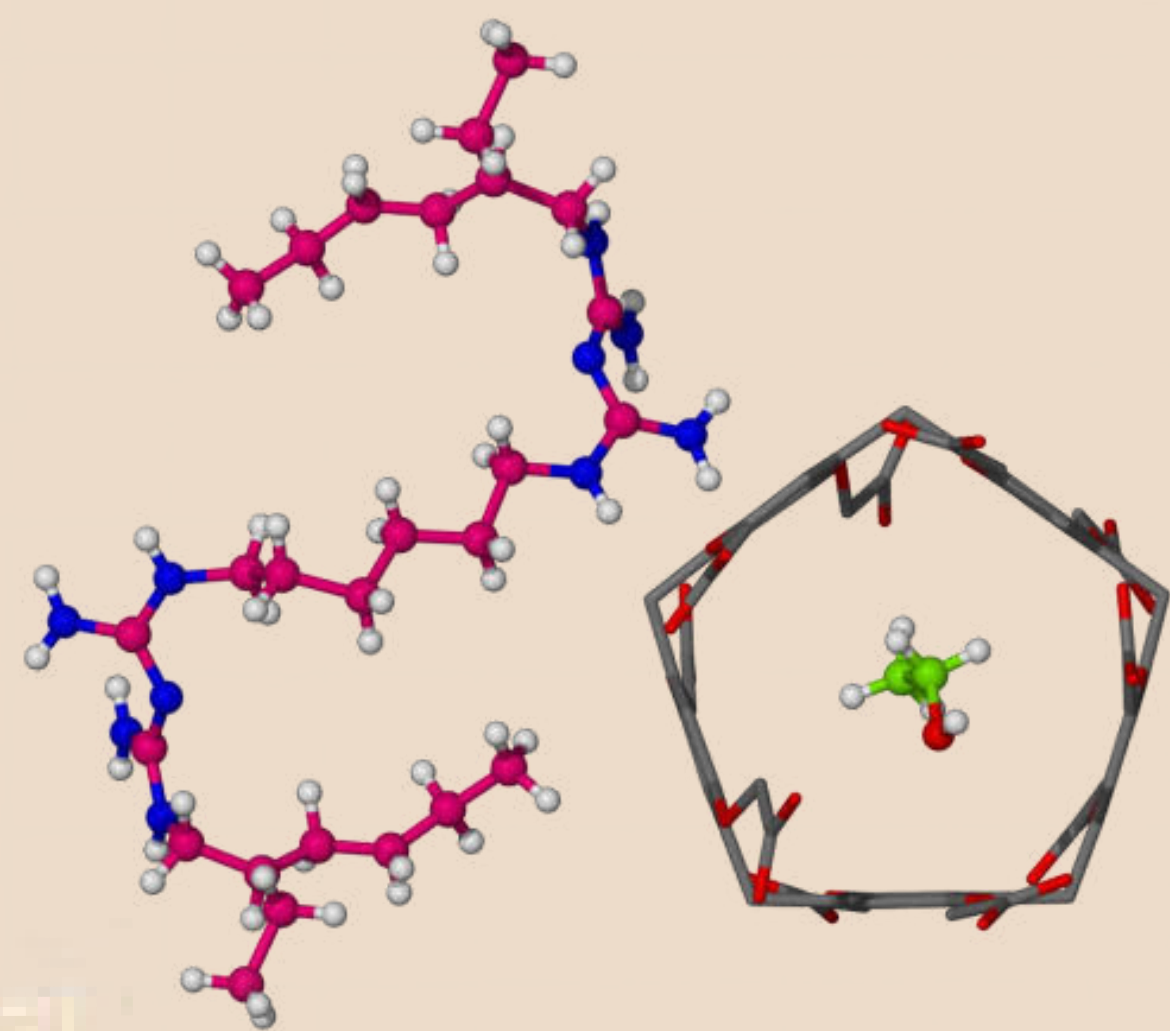
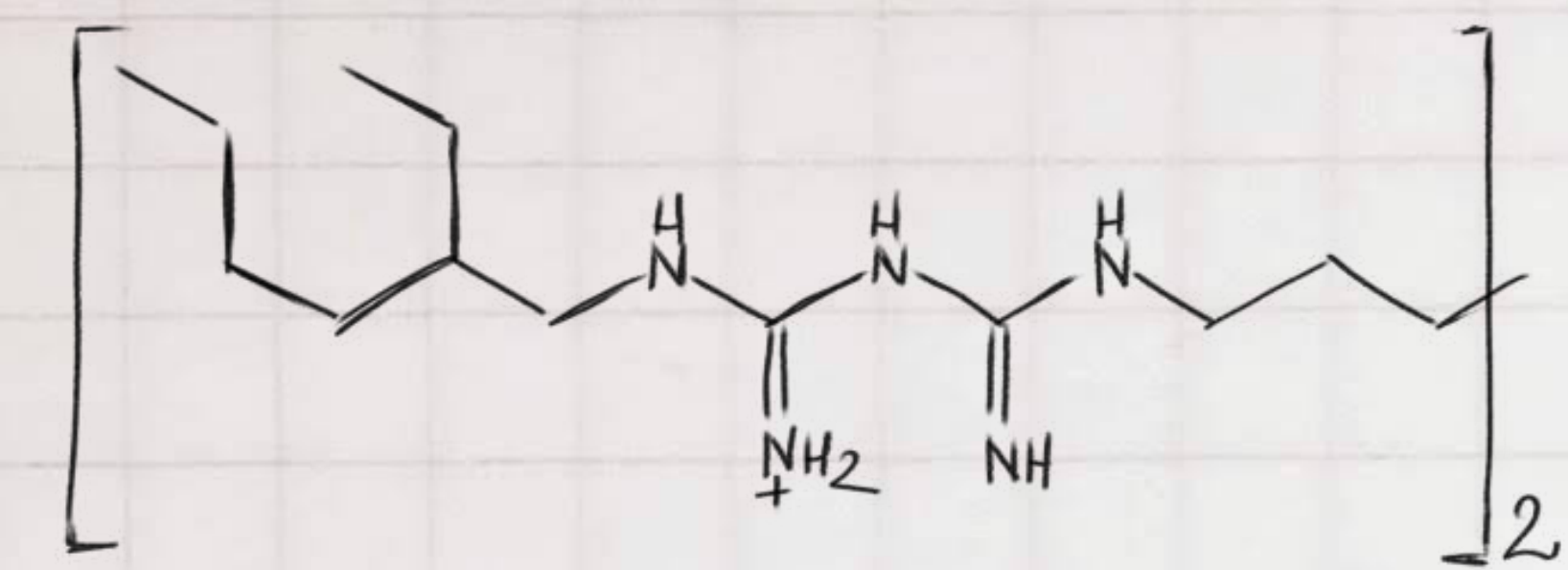
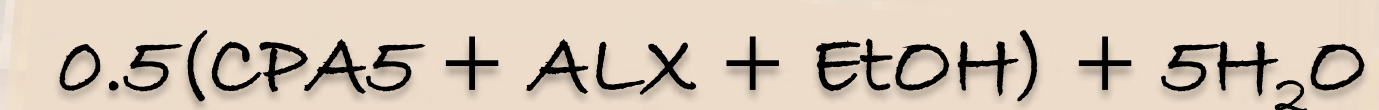


ACKNOWLEDGMENTS

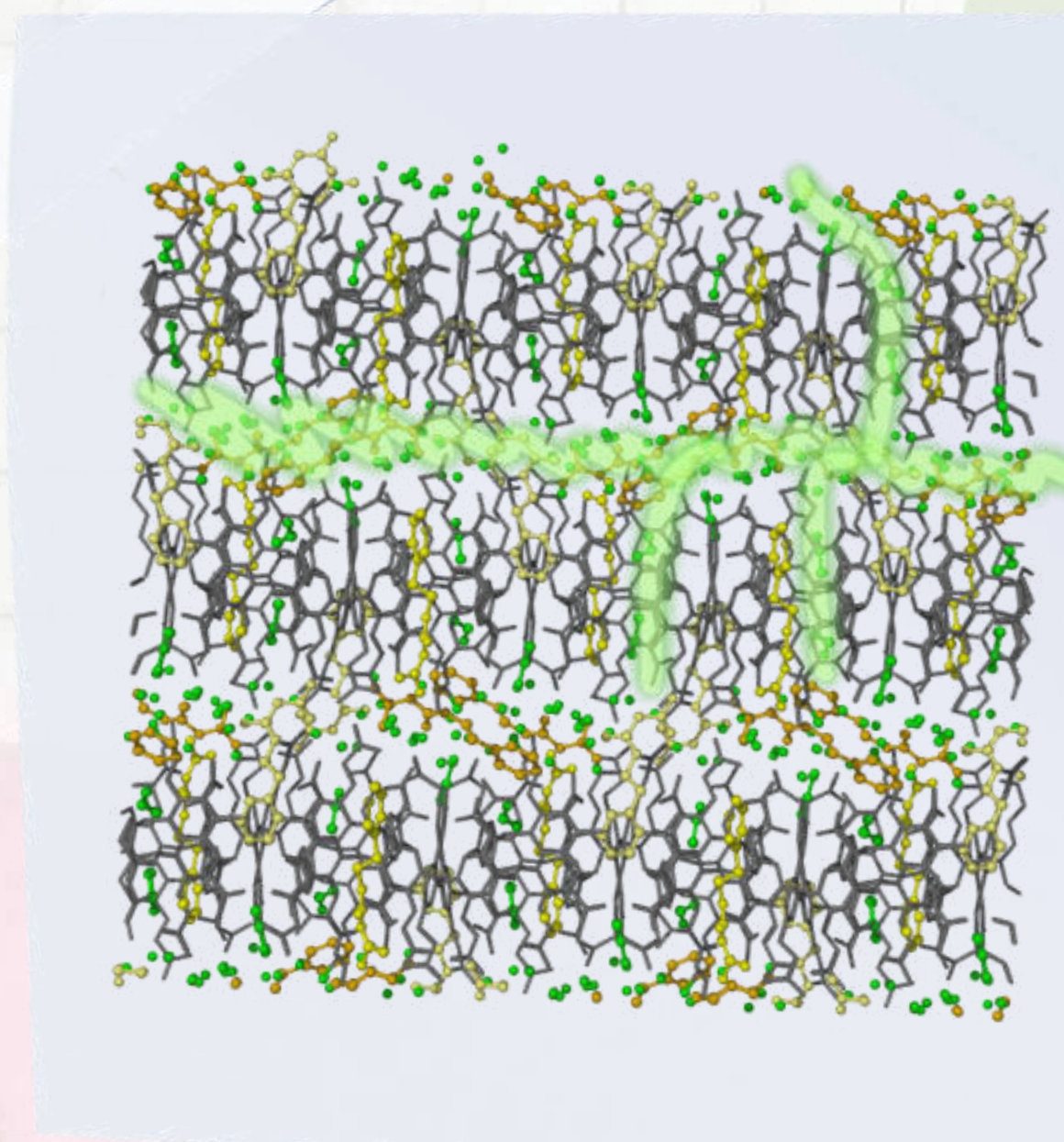
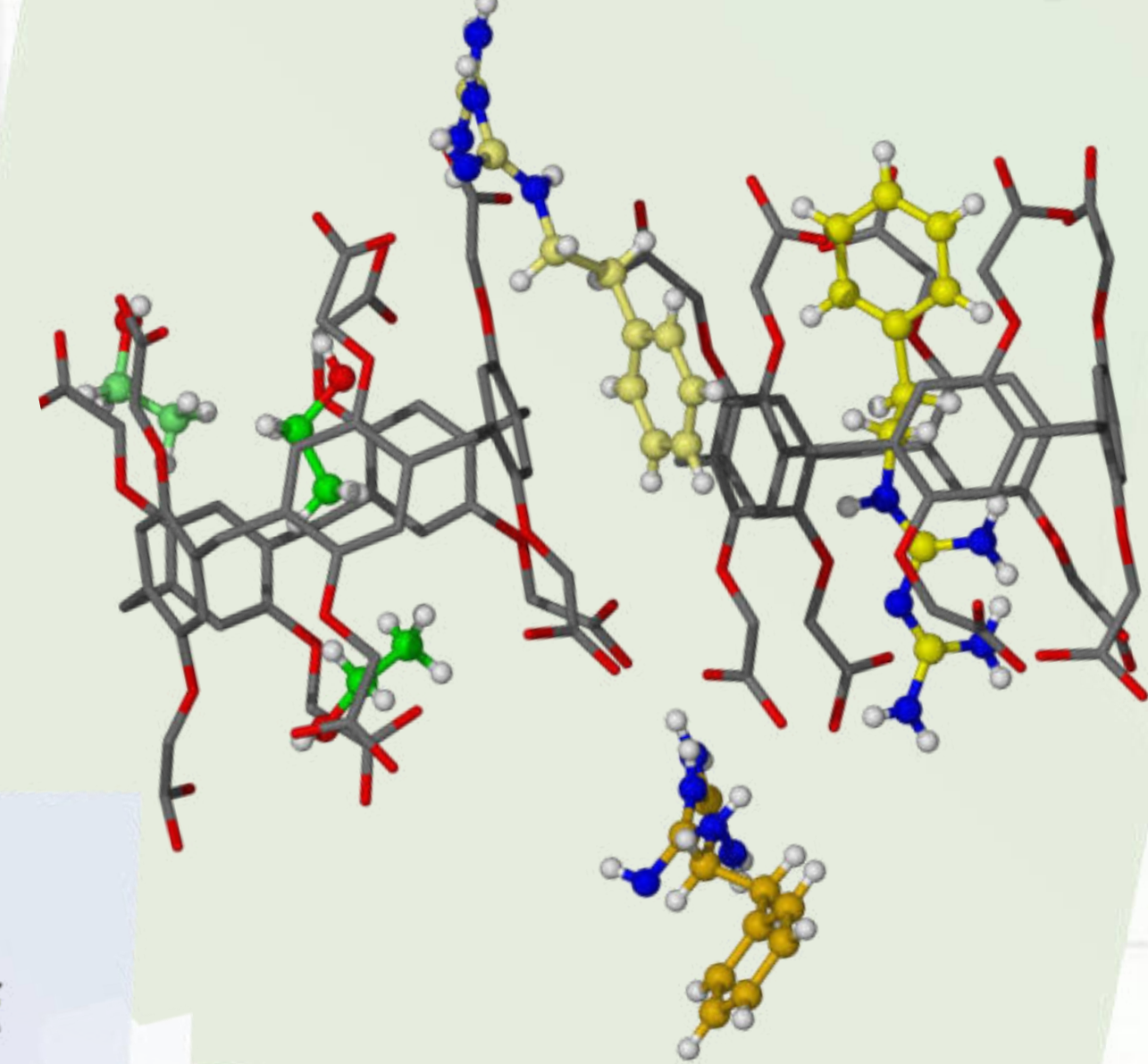
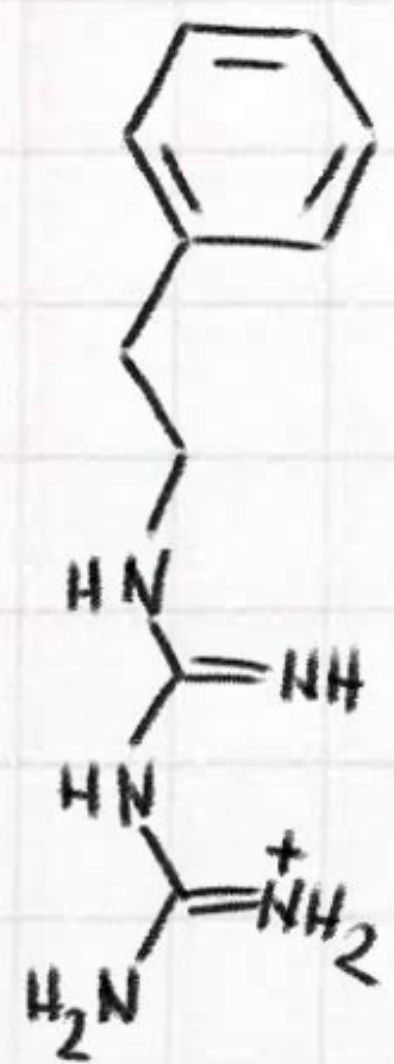
This work is supported by NSC under grant PRELUDIUM 2017/27/N/ST5/01931



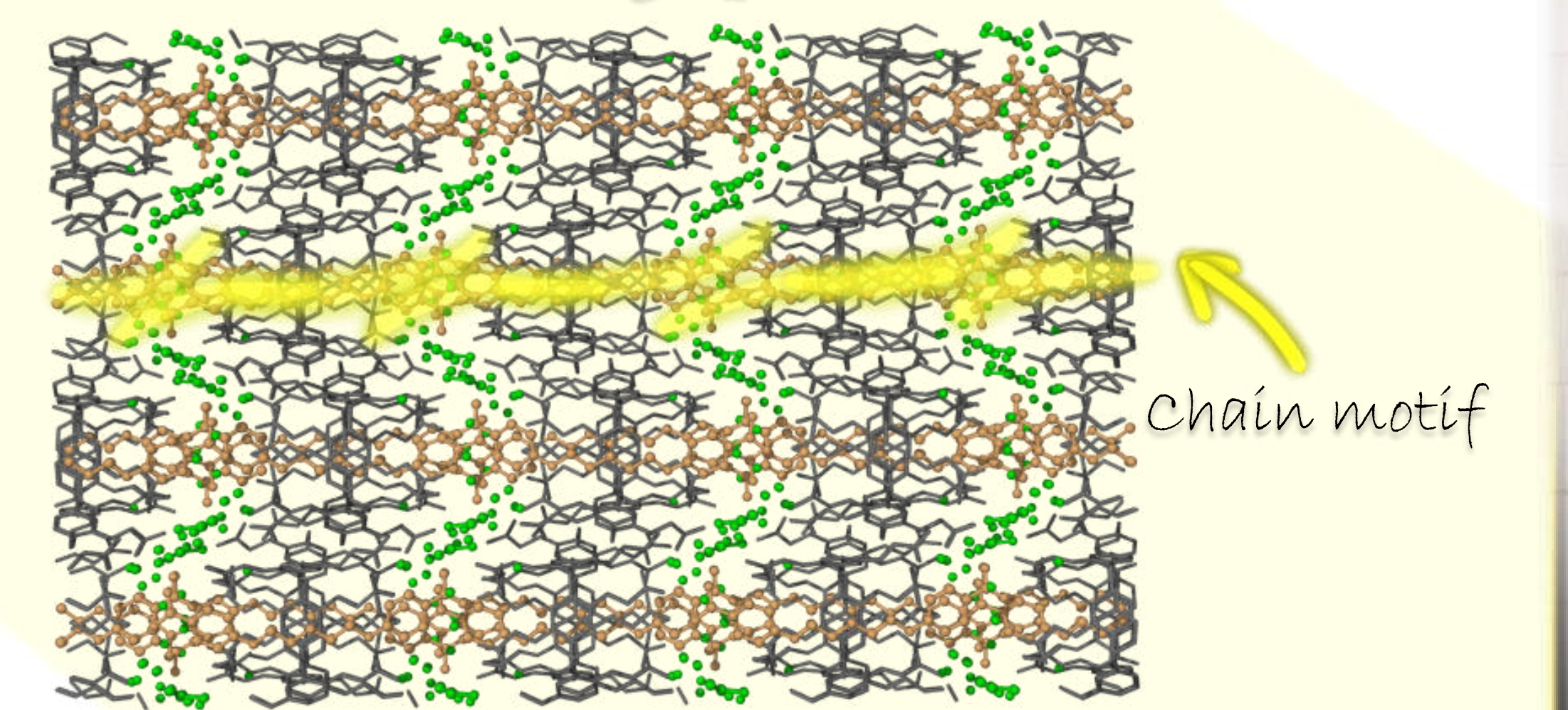
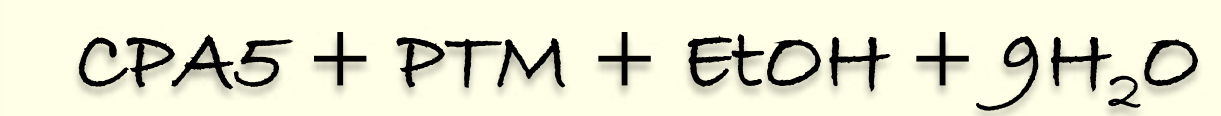
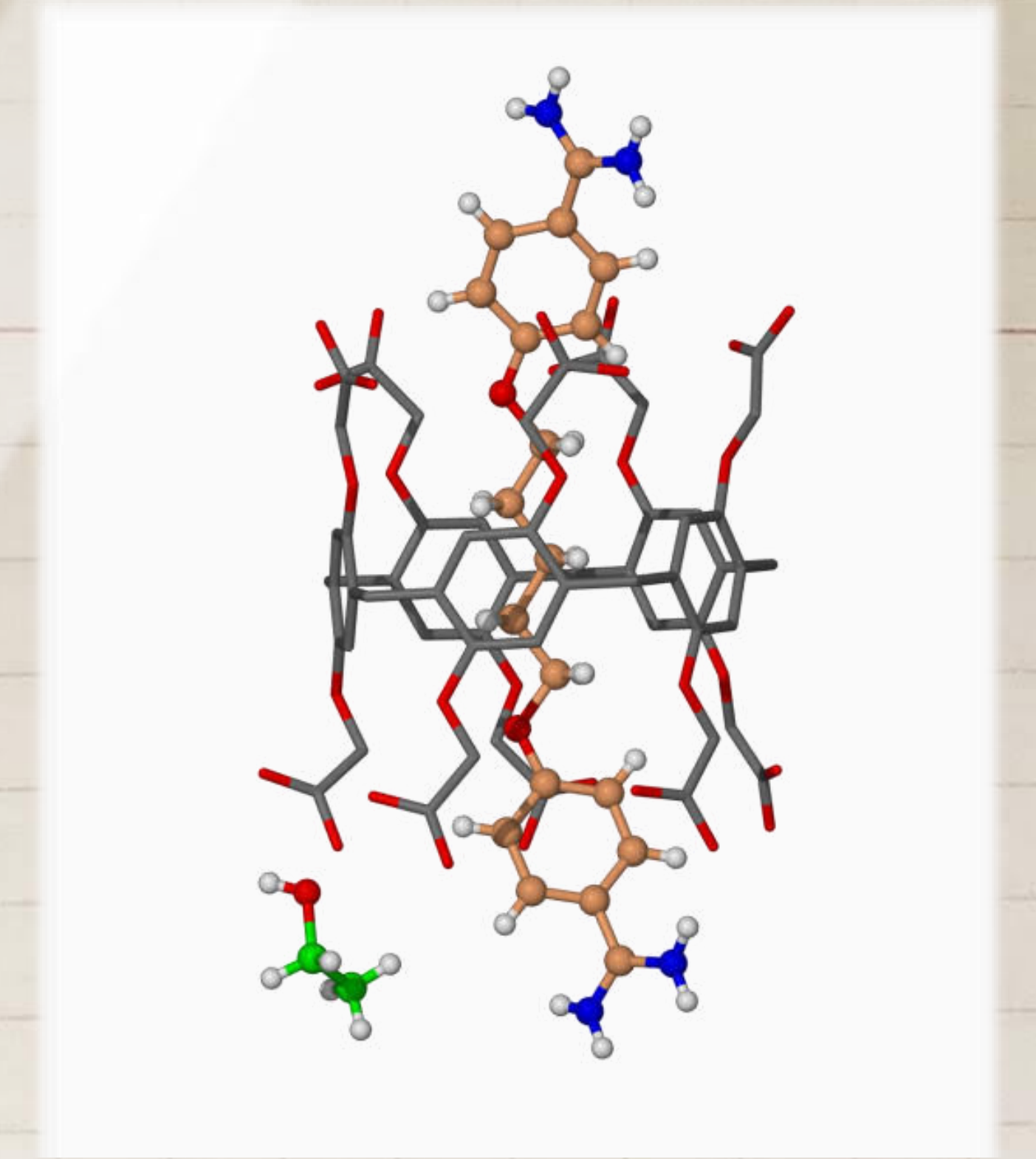
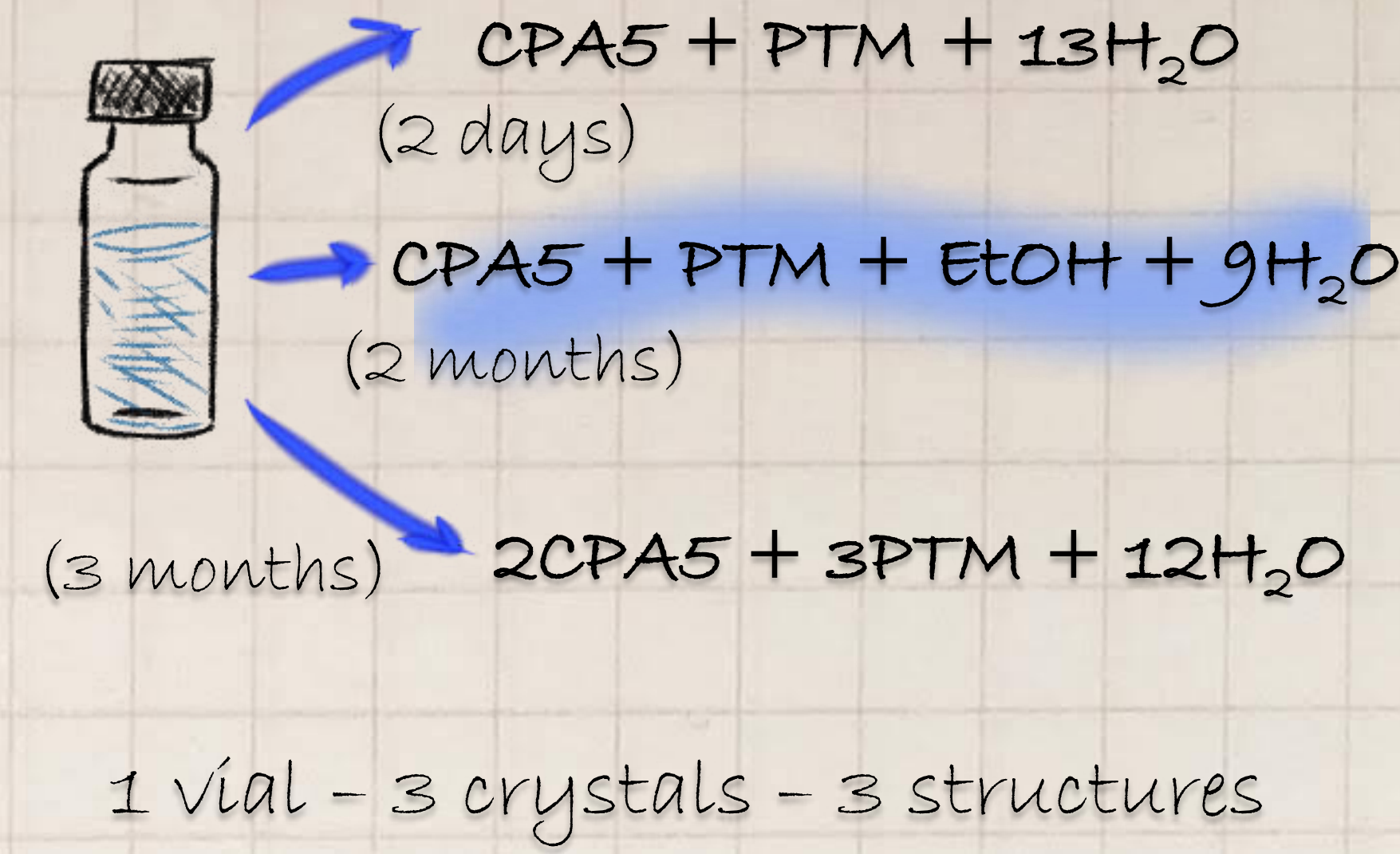
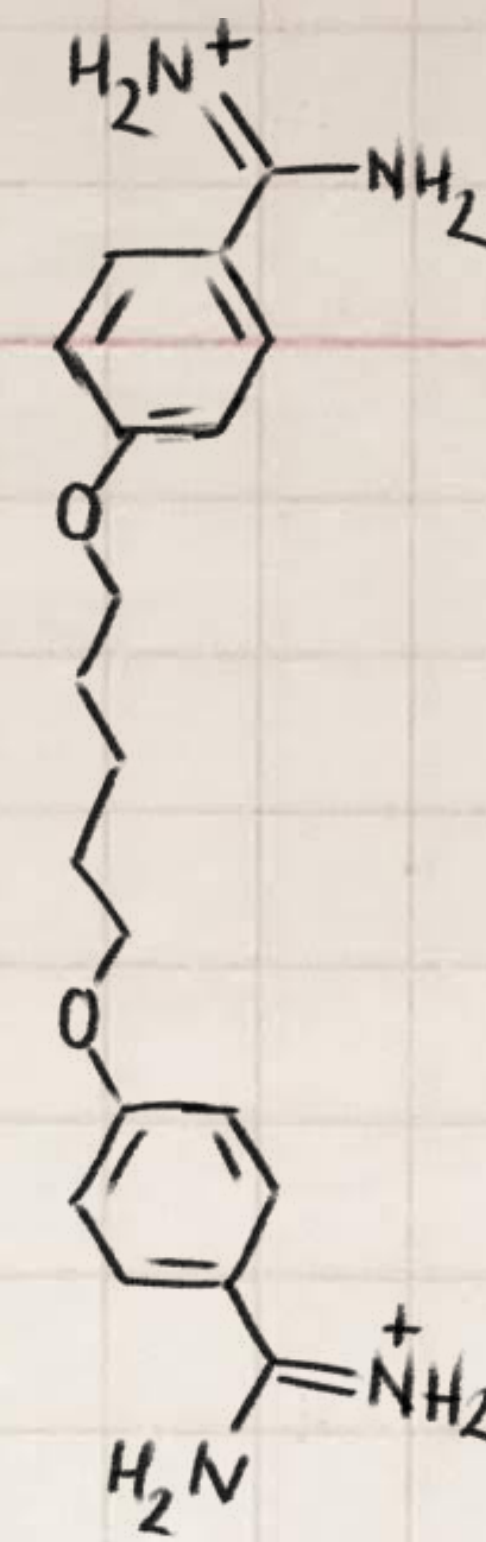
5. Alexidine (ALX)



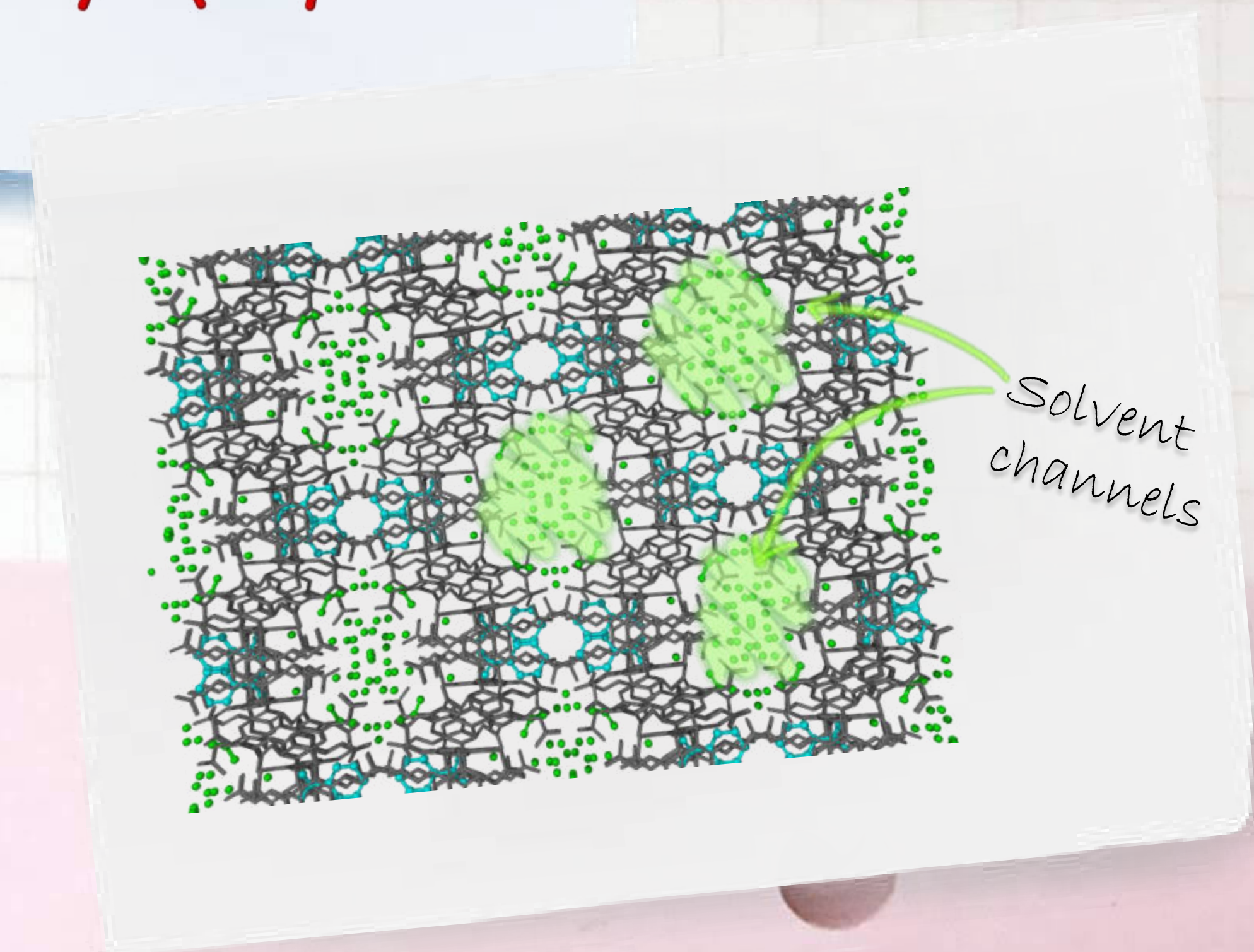
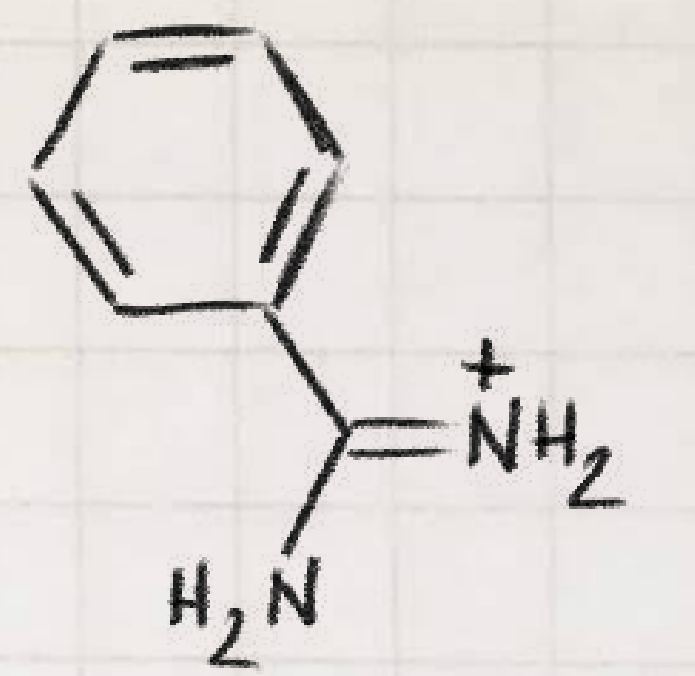
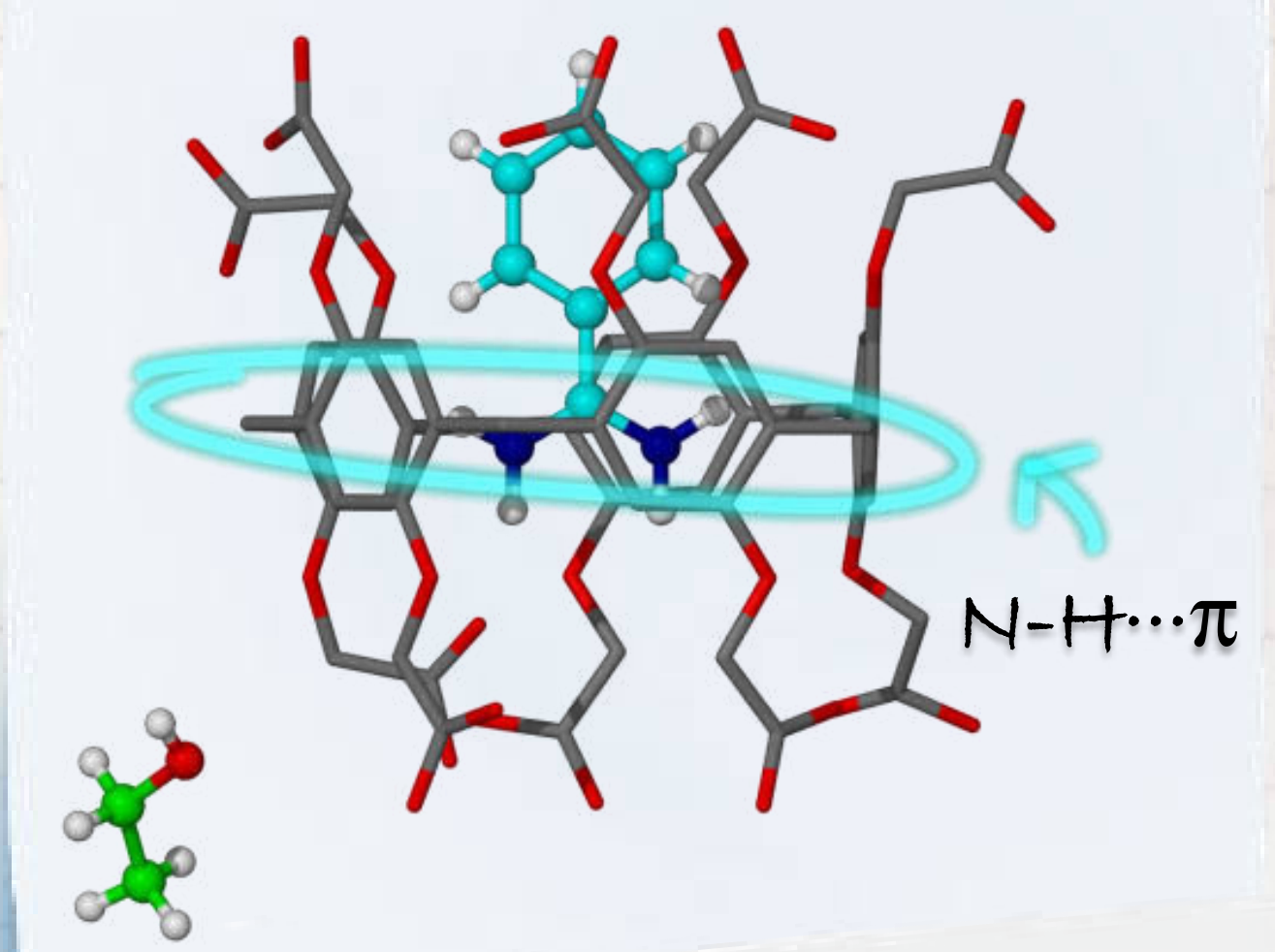
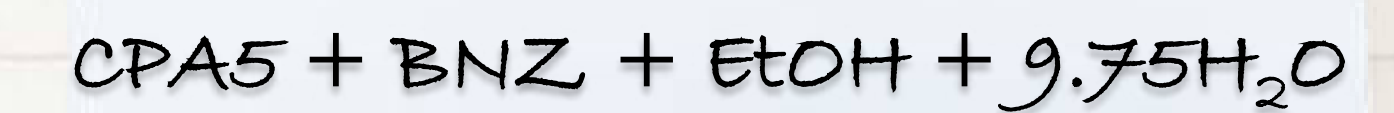
4. Phenformin (PHN)



2. Pentamidine (PTM)



3. Benzamidine (BNZ)



6. CONCLUSIONS

- Complexes of CPA5 with amidines and guanidines create various different motifs
- 3 crystalline forms of complexes of CPA5 with PTM were obtained as a result of time dependend sequential crystallization
- These complexes have potential use as drug delivery systems