- This weeks (10) topics (Ring perception also next week): Graph isomorphism (traces), SMILES, Ring Perception, Hanser Algorithm.
- We are currently working on a C++ implementation for graph canonicalisation. The source code, developed by Jakob L Andersen, can be found in blackboard.
- Mandatory Reading:
 - Mandatory Reading: Articles by Weininger (SMILES1 and SMILES2, see blackboard). Please note again, that the graph canonicalisation described in these articles is not correct.
 - Franziska Berger, Christoph Flamm, Petra M. Gleiss, Josef Leydold, Peter F. Stadler: Counterexamples in Chemical Ring Perception. Journal of Chemical Information and Modeling 44(2): 323-331 (2004)
 - Section 2.5 of the book by Gasteiger et al. (for an easy introduction)
 - Hanser T, Jauffret P, Kaufmann G, (1996), A New Algorithm for Exhaustive Ring Perception in a Molecular Graph. J Chem Inf Comput Sci, 36(6):1146-1152. DOI:10.1021/ci960322f
- Recommended Reading:
 - Downs, G.M., Gillet, V.J., Holliday, J.D., Lynch, M.F.: Theoretical aspects of ring perception and development of the extended set of smallest rings concept. Journal of Chemical Information and Computer Sciences, 187-206 (1989)