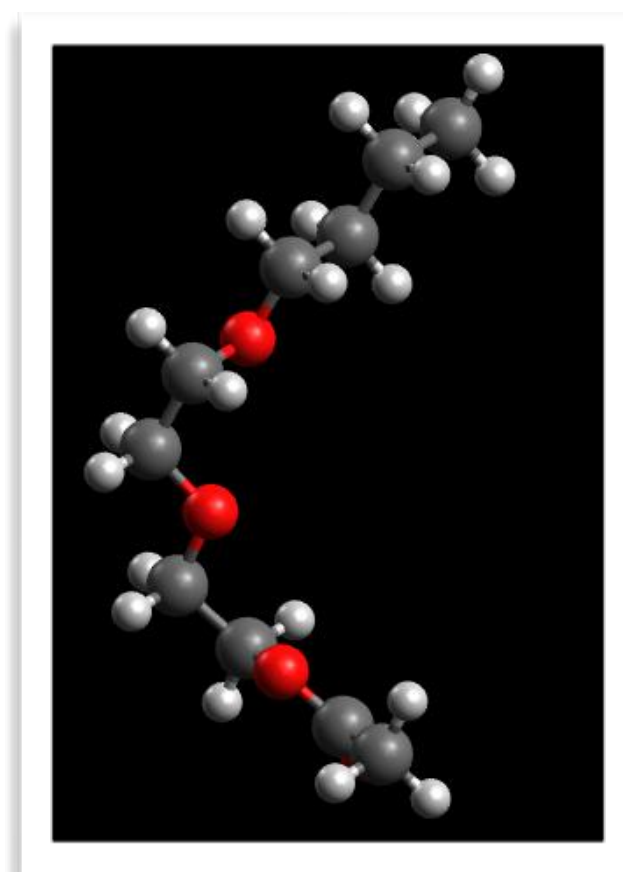
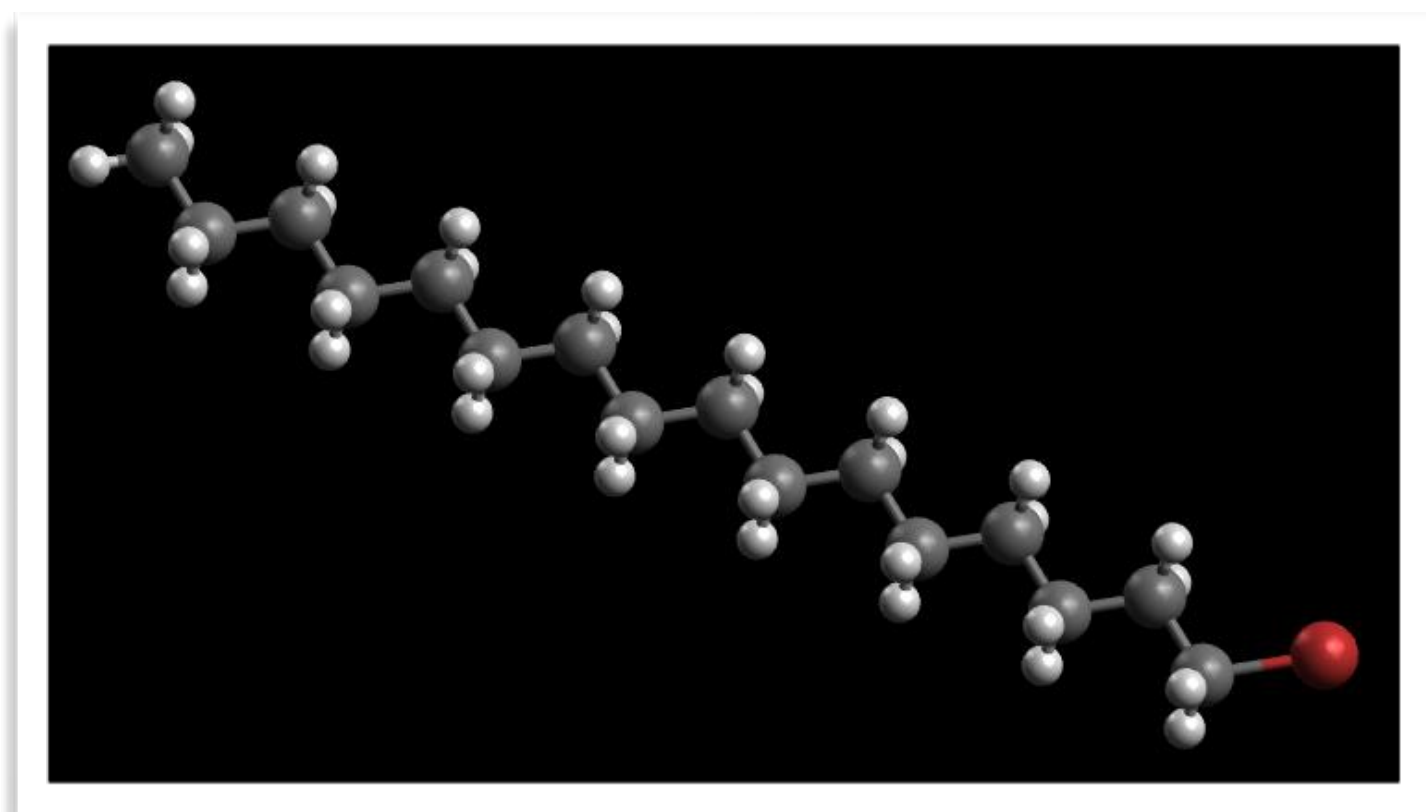


Is it biodegradable?

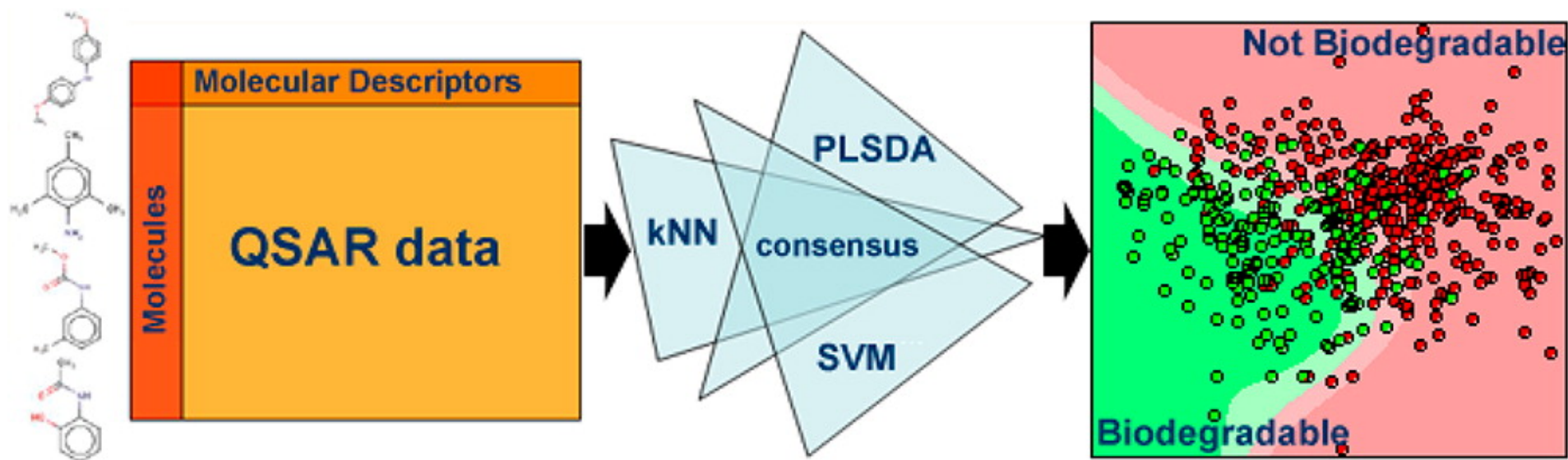
Research question

- Can we predict if a given chemical is bio-degradable given informations on the molecular structure, etc...

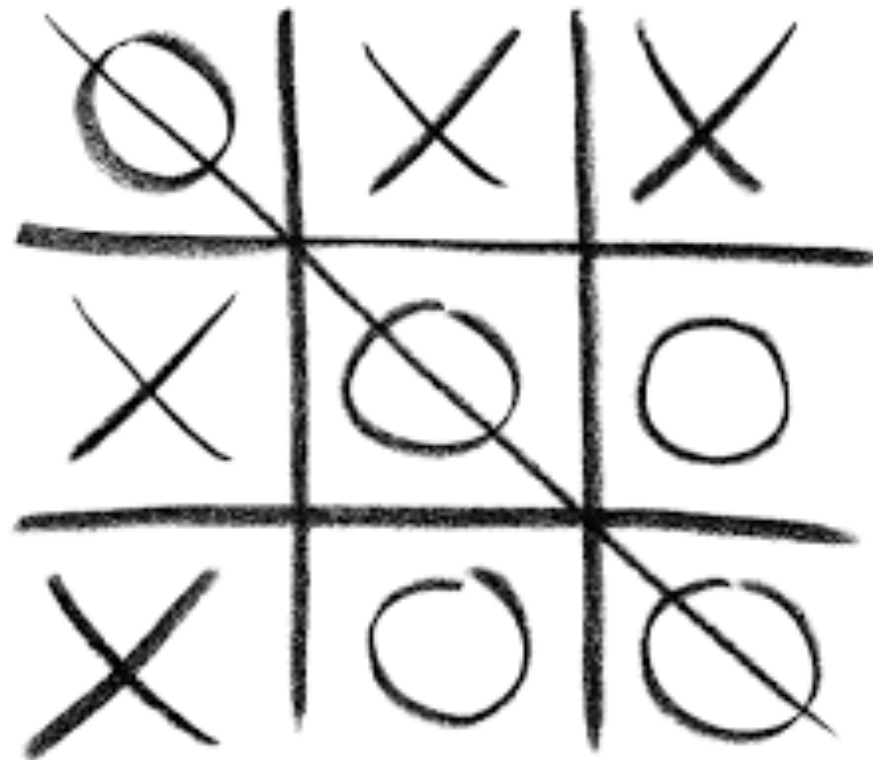


Dataset

- The QSAR biodegradation dataset built in the Milano Chemometrics and QSAR Research Group
- Multivariate data set with 1055 instances each with 41 attributes and 1 experimental outcome (source UCI database)
- Mansouri, K., Ringsted, T., Ballabio, D., Todeschini, R., Consonni, V. *Journal of Chemical Information and Modeling* **53** (2013) 867



Noughts and crosses



Research question

- Can x win with this game position?
- AI prediction of game outcome / possible artificial player

Dataset

- Tic-Tac-Toe Endgame Data Set from UCI database
- Multivariate data set with 958 instances each with 9 attributes and 1 outcome

```
1. top-left-square: {x,o,b}
2. top-middle-square: {x,o,b}
3. top-right-square: {x,o,b}
4. middle-left-square: {x,o,b}
5. middle-middle-square: {x,o,b}
6. middle-right-square: {x,o,b}
7. bottom-left-square: {x,o,b}
8. bottom-middle-square: {x,o,b}
9. bottom-right-square: {x,o,b}
10. Class: {positive,negative}
```