| **Literature** | **Summary** |
| --- | --- |
| [Factors affecting the development of adverse drug reactions (Review article)](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3950535/#:~:text=Pharmacological%2C%20immunological%2C%20and%20genetic%20factors,pharmacodynamic%20abnormalities%2C%20and%20drug%20interactions) (Alomar, 2013) | Gives an overview of what adverse drug reactions are, and what factors cause them. This first introduces drug interactions. |
| [XSMILES: interactive visualization for molecules, SMILES and XAI attribution scores](https://jcheminf.biomedcentral.com/articles/10.1186/s13321-022-00673-w) (Heberle *et al.*, 2023) | Proposes XSMILES, an interactive visualization technique, to explore substructure importance for property prediction. |
| [Application of artificial intelligence and machine learning in early detection of adverse drug reactions (ADRs) and drug-induced toxicity](https://www.sciencedirect.com/science/article/pii/S2949747723000118) (Yang and Kar, 2023) | Provides a recent review of the current state of ADR prediction as a field. Also provides a useful history of ADR’s. A lack of interpretability/explainability in deep learning methods is highlighted. |
| [DDI-GCN: Drug-drug interaction prediction via explainable graph convolutional networks](https://www.sciencedirect.com/science/article/abs/pii/S0933365723001549) (Zhong *et al.*, 2023) | Suggests a Graph Convolutional Neural Network approach to DDI, with visualisation for substructure importance, all presented in a GUI. |

**DDI Prediction Dissertation Poster – Related Work**

Alomar, M.J. (2013) ‘Factors affecting the development of adverse drug reactions (Review article)’, *Saudi Pharmaceutical Journal : SPJ*, 22(2), pp. 83–94. Available at: https://doi.org/10.1016/j.jsps.2013.02.003.

Heberle, H. *et al.* (2023) ‘XSMILES: interactive visualization for molecules, SMILES and XAI attribution scores’, *Journal of Cheminformatics*, 15(1), p. 2. Available at: https://doi.org/10.1186/s13321-022-00673-w.

Yang, S. and Kar, S. (2023) ‘Application of artificial intelligence and machine learning in early detection of adverse drug reactions (ADRs) and drug-induced toxicity’, *Artificial Intelligence Chemistry*, 1(2), p. 18. Available at: https://doi.org/10.1016/j.aichem.2023.100011.

Zhong, Y. *et al.* (2023) ‘DDI-GCN: Drug-drug interaction prediction via explainable graph convolutional networks’, *Artificial Intelligence in Medicine*, 144, p. 9. Available at: https://doi.org/10.1016/j.artmed.2023.102640.