

Background Information for Project 2

Breast Cancer:

- What is breast cancer?
 - https://www.cdc.gov/cancer/breast/basic_info/what-is-breast-cancer.htm
- ML and Breast cancer
 - <https://www.nature.com/articles/s41598-019-48995-4>
 - <https://pubmed.ncbi.nlm.nih.gov/32250226/> Review article of traditional DL for Breast cancer detection and classification

H&E staining:

- What is H&E staining
 - <https://visikol.com/blog/2022/05/03/he-staining-cancer/>
- ML/DL using H&E staining
 - "Hematoxylin and eosin (H&E) staining is used for primary diagnosis, and specialized stains for molecular markers can be used for diagnostic confirmation and subtyping. For breast cancer, ERS is always assayed, as it is both a prognostic marker and predictive of endocrine therapy response.
[https://www.nature.com/articles/s41467-020-19334-3#:~:text=Hematoxylin%20and%20eosin%20\(H%26E\)%20staining%20is%20used%20for%20primary%20diagnosis,predictive%20of%20endocrine%20therapy%20response.](https://www.nature.com/articles/s41467-020-19334-3#:~:text=Hematoxylin%20and%20eosin%20(H%26E)%20staining%20is%20used%20for%20primary%20diagnosis,predictive%20of%20endocrine%20therapy%20response.)
 - <https://www.hindawi.com/journals/cin/2021/5580914/> Efficient nets for classification of H&E stained slides