

- Whole & Meta genome sequence assembly and error correction software tools

- LAZER (@SC16, Bigdata16) , LaSAGNA (@IPDPS2018), ParLECH (@BIBM18)



- High throughput virtual screening AlphaFold, Docking.

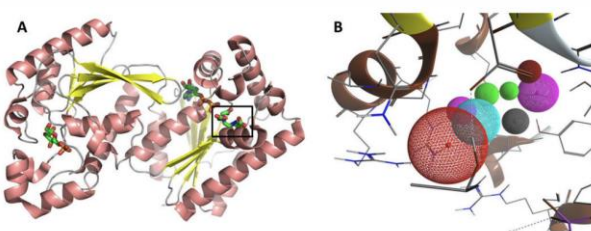


Fig. 4. Pharmacophore map used in PFKFB3 virtual screening

PoC

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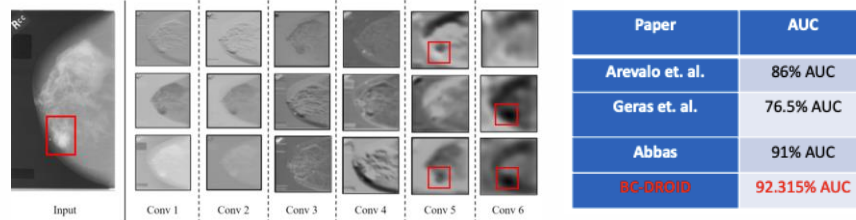
Funding

- Funding agencies:
- NSF, NIH, DoD, NASA

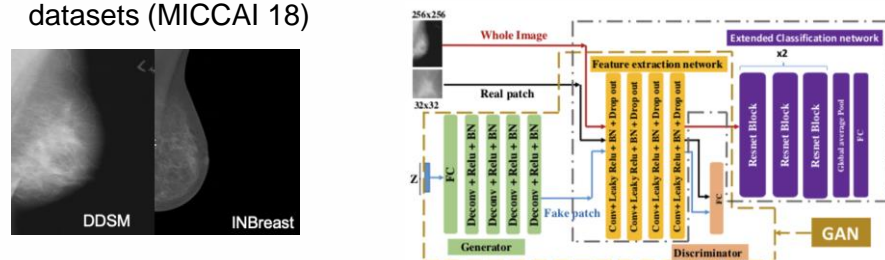


- Biomedical data analysis

➤ Breast Cancer Diagnosis Using Deep Learning and Region of Interest Detection: BC-DROID (ACM BCB17)



➤ Deep Generative Breast Cancer Diagnosis with DDSM & INbreast datasets (MICCAI 18)



Keywords:

Large-scale data analysis (for whole genome and meta genome sequence data), extreme-scale computation using supercomputers, AI-based biomedical data analysis (e.g., mammogram, ECG, fMRI, etc.).

Publications and Recognitions:

- [Link to my publications](#)
- IBM faculty research award
- Kummer Endowed Professor