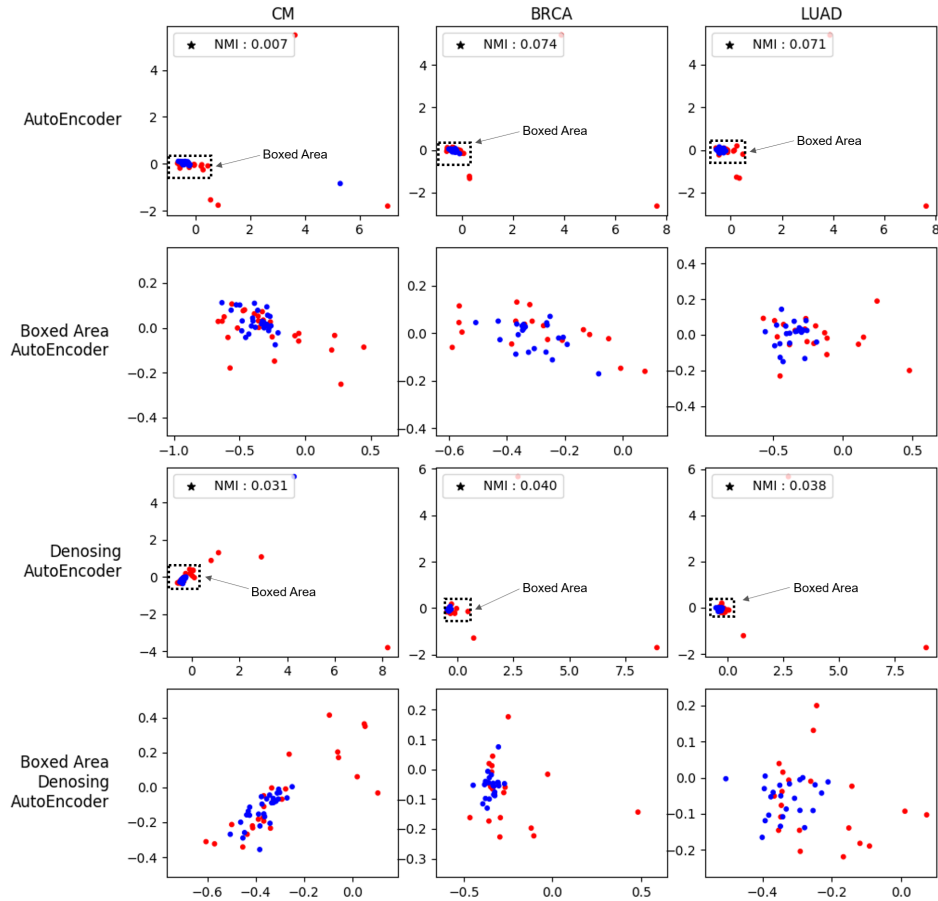


Mut2Vec: distributed representation of cancerous mutations

Additional File 1

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This file lists the visualization results with mutation vectors trained with an autoencoder[1] and a denoising autoencoder[2]. In both autoencoders, we used an Adagrad optimizer[3] for a learning rate of 0.1 and trained it by 500 epochs.



References

- [1] LeCun, Y., Bottou, L., Bengio, Y., Haffner, P.: Gradient-based learning applied to document recognition. *Proceedings of the IEEE* **86**(11), 2278–2324 (1998)
- [2] Vincent, P., Larochelle, H., Bengio, Y., Manzagol, P.-A.: Extracting and composing robust features with denoising autoencoders. In: *Proceedings of the 25th International Conference on Machine Learning*, pp. 1096–1103 (2008). ACM
- [3] Duchi, J., Hazan, E., Singer, Y.: Adaptive subgradient methods for online learning and stochastic optimization. *Journal of Machine Learning Research* **12**(Jul), 2121–2159 (2011)