Computation Biology - Homework 6

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1 Encoding Method [1] [2]

2 Model Architecture

3 Model Evaluation

4 Discussion

References

[1] Vanessa Isabell Jurtz, Leon Eyrich Jessen, Amalie Kai Bentzen, Martin Closter Jespersen, Swapnil Mahajan, Randi Vita, Kamilla Kjærgaard Jensen, Paolo Marcatili, Sine Reker Hadrup, Bjoern Peters, and Morten Nielsen. NetTCR: Sequence-based prediction of TCR binding to peptide-MHC complexes using convolutional neural networks. Preprint, Bioinformatics, October 2018.

[2] Morten Nielsen, Claus Lundegaard, Peder Worning, Sanne Lise Lauemøller, Kasper Lamberth, Søren Buus, Søren Brunak, and Ole Lund. Reliable prediction of T-cell epitopes using neural networks with novel sequence representations. *Protein Science*, 12(5):1007–1017, 2003.