A picture containing diagram, line, plan, screenshot

Description automatically generated

Figure 1. Nogo pathway in optic nerve regeneration literature

A picture containing diagram, drawing

Description automatically generated

Figure 2. ‘socs3’ pathway in optic nerve regeneration literature

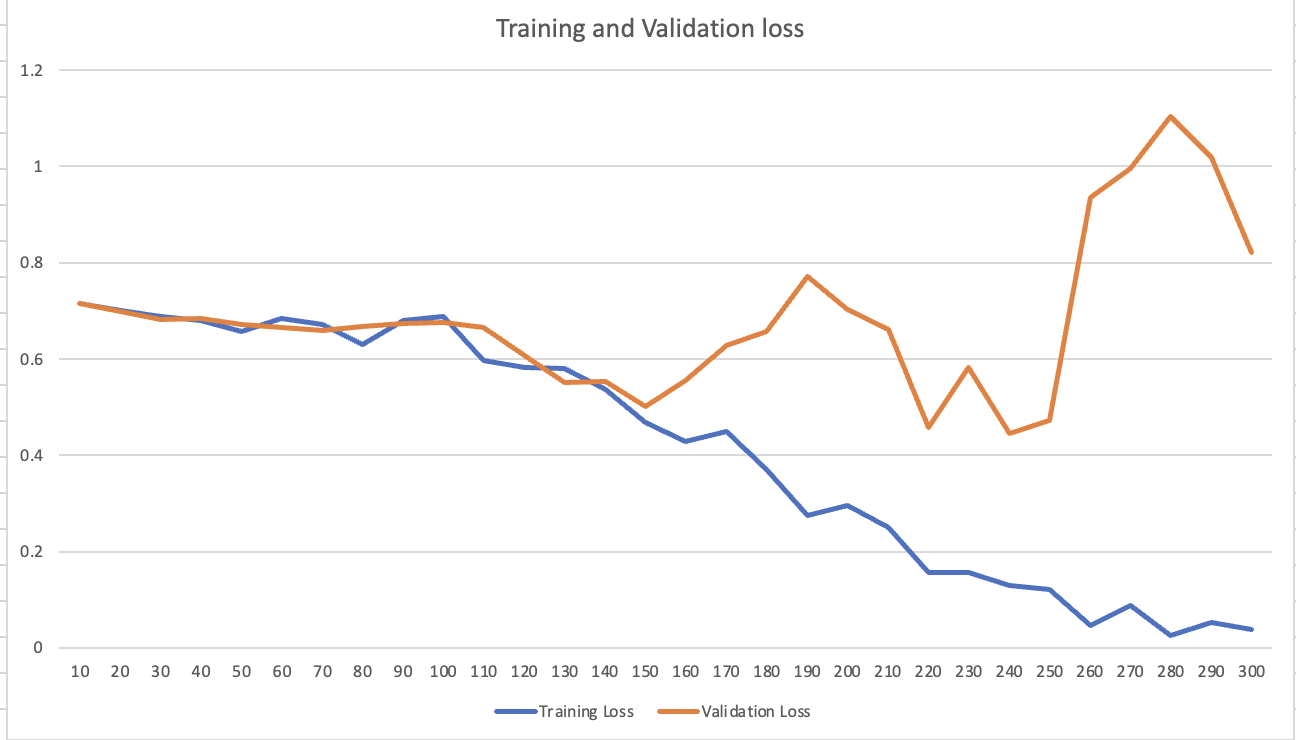
[](https://private-user-images.githubusercontent.com/19865419/244807043-2a851013-8ded-4262-bdf2-43436bba5820.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJrZXkiOiJrZXkxIiwiZXhwIjoxNjg3NTU5MDQ3LCJuYmYiOjE2ODc1NTg3NDcsInBhdGgiOiIvMTk4NjU0MTkvMjQ0ODA3MDQzLTJhODUxMDEzLThkZWQtNDI2Mi1iZGYyLTQzNDM2YmJhNTgyMC5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMwNjIzJTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMDYyM1QyMjE5MDdaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT01Y2I5ZmMzMjM1MWVhNTMzMzg0NDRkZjI4M2I4Y2RjMTllODhhNWVkNmE4NzI2ZDBhOGRlODMxOWQwYzgxMTI0JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.nGc5p8cRGAU1WQtYybElwNoVdtmGqWQdzE23iKVvJS8)

Figure \_: Training and Validation Loss for base BERT model with 10 epochs when not removing ‘l1’, ‘c3’, ‘mag’, ‘rock’, and ‘lif’. You can see the dramatic level of overfitting that occurs.

Figure \_: Training and Validation Loss for BioBERT model with 10 epochs when not removing ‘l1’, ‘c3’, ‘mag’, ‘rock’, and ‘lif’. You can again see the dramatic level of overfitting that occurs just like the base BERT model.

Figure \_: Training and Validation Loss for base BERT model early stopping when not removing ‘l1’, ‘c3’, ‘mag’, ‘rock’, and ‘lif’. You can see that the training and validation loss plateau when sentences with these molecules are left in the training dataset.