S5 Table. Classification results of DDI classification for BioConceptVec (cbow) using different hyperparameters. SEN: the sentence encoder network. Default: BioConceptVec (cbow) trained using the default hyperparameters.

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| **Model** | **F1-score on each relation type** | **Overall performance** |

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|  | **Int** |  **Advice** |  **Effect** |  **Mechanism** | **P** | **R** | **F** |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| SEN + Default | **0.5206** | **0.8423** | **0.8191** |  **0.8692** | **0.8167** | **0.8161** | **0.8105** |
| SEN + Window size 5 | 0.4701 | 0.8048 | 0.7951 |  0.8758 | 0.7943 | 0.7941 | 0.7903 |
| SEN + Window size 10 | **0.5151** | 0.8178 | 0.8002 |  0.8767 | 0.8066 | 0.8043 | 0.7998 |
| SEN + Vector dimension 100 | 0.4548 | **0.8221** | 0.8025 |  0.8470 | 0.7983 | 0.7884 | 0.7865 |
| SEN + Vector dimension 300 | 0.5040 | 0.8070 | 0.8223 |  0.8696 | 0.8117 | 0.8063 | **0.8022** |
| SEN + Down sampling 1e4 | 0.4719 | 0.8144 | 0.8109 |  0.8520 | 0.8014 | 0.7941 | 0.7911 |
| SEN + Down sampling 1e5 | 0.4366 | 0.8159 | 0.7958 |  0.8608 | 0.7938 | 0.7894 | 0.7851 |
| SEN + Negative samples 2 | 0.4894 | 0.8220 | 0.8112 |  0.8594 | 0.8066 | 0.8020 | 0.7969 |
| SEN + Negative samples 3 | 0.4635 | 0.8102 | 0.8275 |  **0.8698** | **0.8184** | **0.8104** | 0.8009 |