

Predict Pairwise Protein-Protein Interaction

AttnSeq-PPI: Deep-Learning Powered Protein-Protein Interaction and Network

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Submit Protein Sequences

(1) **SELECT**

☒ Predict Pairwise Protein-Protein Interaction

Protein Sequence 1

Enter Protein 1 Sequence...

Protein Sequence 2

Enter Protein 2 Sequence...

(2) **SELECT
EXAMPLE
SEQUENCES**

Predict Interaction

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☐ Predict PPI Among Different Group

Protein Sequences Group 1

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Protein Sequences Group 2

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☐ Predict PPI Among Single Group

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**COPY
SEQUENCE1
AND
SEQUENCE 2**

Select --> copy --> paste "ONLY" the Example Protein Sequences

#Protein Sequence 1

MRRETVGEFSSDDDDILLELGTRPPRFQIIPPSSAALQTQIPTTLEVTITTTLNKQSKNDQLVNQLNKAQGEASMLRDKI
NFLNIEREKEKNIQAVKVNELQVKHLQELAKLKQELQKLEDEKKFLQMEARGKSKREVITMVKPPSTTLSTNTNITPSSS
VAIEAKPQSPQSKKRKISDNLLKKNMVPLNPNRIIPDETSLFLESILLHQIIGADLSTIEILNRLKLDVITEFKFKNFVIAK
GAPIGKSIVSLLRCKKTLTDRFIDTLLEDIAVLKEISVHPNESKLAVPFLVALMYQIVQFRPSATHNLALKDCFLFICD
LIRIYHHVLKVPIHESNMNLHVEPQIFQYELIDYLIISYSFDLLEGILRVLQSHPKQTYMEFFDENILKSFEFVYKLALTIS
YKPMNVVIFSAREVNIITSIIINWDNSSDLKSLISGSMWRDCITRLYALLEKEIKSGDVYNEMVDTTTLHMSKYHDFGLI
RNIGDNELGGLISKLIYTDRLQSVPRVISKEDIGMDSOKFTAPIIGYKMEKWLKLDKDEVLNIFENLMIYGGDOATIVNGEM
LIHSSKFLSREQALMIERYVGGQSPNLDLRCHLIEHTLTIYRLWKDHFQKLREEQIKQVESQLIMSLWRFLVCQTETVTAN
EREMRDHRHLVDSLHDLTIKQASYYEDAFEDLPEYIEELKMQLNKRTGRIMQVKYDEKQEMARTILESKSFDLTTLEEA
DSLYISNGL

#Protein Sequence 2

MLSAISKVSTLKSCTRYLTKCNYHASAKLLAVKTFSPAMPSTMEKGGIVSWKYKVGEPFSAGDVILEVETDKSQIDVEALD
DGKLAKILKDEGSKDQVDVGEPTAIYADVDDDLATIKLPQEANTANAKSIEIKKPSADSTEATQCHLKKATVTPIKTVGGSQA
NLEQTLTPSVSLLLAENNISKQKALKETAPSGSNGRLLKGDVLAYLGKIPQDSVNVKVFTEFIKKNERLDLSNIKPIQLKPKIA
EQAQTKAADKPKITPVEFEEQLVHAPASIPFDKLSLSNSFMKEAYQFSGHTPLMDTNSKYFDPFEDLVTLSPREPFRKF
SYDLMQIPKANMQDTYQEDIIDLLTGSDATASSVRPVEKNLPEKNEYILALNVSVNNKFNDAEAKAKRFLDYVRELESF

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Protein Sequence 1

MRRETVGEFSSDDDDILLELGTTRPPRFTQIPPSAALQTQIPTTLEVTITTLNNKQSKNDQVLNQLNK
AQGEASMLRDKI
NFLNIEREKEKNIQAVKVNELQVKHLQELAKLKQELQKLEDEKKFLQMEARGKSKREVITNVKPPSTLS
TNTNITPDSSS

Protein Sequence 2

EQAQTKAADKPKITPVEFEEQLVFHAPASIPFDKLSSELSFMKEAYQFSHGTPMDTNSKYFDPIFEDL
VTLSPREPRKF
SYDLMQIPKANMQDTYQEDIFDLLTGSDATASSVRPVEKNLPEKNEYILALNVSVNNKKFNDAEAKAK
RQDYVRELESF

(1) PASTE
SEQUENCE1
AND
SEQUENCE 2

Predict Interaction

Reset

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(2) SELECT
PREDICT
INTERACTION

☐ **Predict PPI Among Different Group**

Protein Sequences Group 1

No file chosen

Protein Sequences Group 2

No file chosen

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☐ **Predict PPI Among Single Group**

Select File Containing Protein Sequences

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PREDICTION RESULT

Prediction: Probability of interaction **8.897286%**

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Predict PPI Among Different Group

Submit Protein Sequences

☒ **Predict Pairwise Protein-Protein Interaction**

Protein Sequence 1

Enter Protein 1 Sequence...

Protein Sequence 2

Enter Protein 2 Sequence...

ACTIVATE

Predict Interaction

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☐ **Predict PPI Among Different Group**

Protein Sequences Group 1

[Choose file](#) No file chosen

Protein Sequences Group 2

[Choose file](#) No file chosen

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☐ **Predict PPI Among Single Group**

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Protein Sequence 1

Enter Protein 1 Sequence...

Protein Sequence 2

Enter Protein 2 Sequence...

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☒ Predict PPI Among Different Group

Protein Sequences Group 1

[Choose file](#) No file chosen

Protein Sequences Group 2

[Choose file](#) PPI_ex_group2.fasta

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☐ Predict PPI Among Single Group

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Protein Sequence 2

Enter Protein 2 Sequence...

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☒ Predict PPI Among Different Group

Protein Sequences Group 1

[Choose file](#) PPI_ex_group1.fasta

Protein Sequences Group 2

[Choose file](#) PPI_ex_group2.fasta

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☐ Predict PPI Among Single Group

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Protein Sequence 2

Enter Protein 2 Sequence...

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☒ Predict PPI Among Different Group

Protein Sequences Group 1

Choose file PPI_ex_group1.fasta

Protein Sequences Group 2

Choose file PPI_ex_group2.fasta

Predict Interaction

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**WAIT
FOR
EXECUTION**

☐ Predict PPI Among Single Group

Select File Containing Protein Sequences

Choose file No file chosen

Predict Interaction

Reset

Download Example group

Protein-Protein Interaction Table

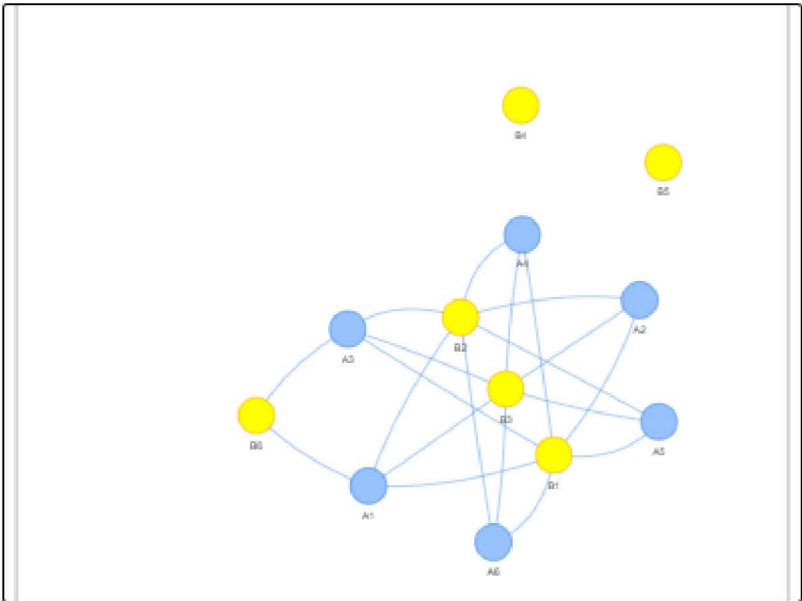
Protein1_name	id_1	Protein2_name	id_2	Interaction Probability(%)
Protein_1B	A1	Protein_1A	B1	99.151695%
Protein_1B	A1	Protein_2A	B2	99.868935%
Protein_1B	A1	Protein_3A	B3	99.445816%
Protein_1B	A1	Protein_4A	B4	23.484303%
Protein_1B	A1	Protein_5A	B5	18.309414%
Protein_1B	A1	Protein_6A	B6	62.091564%
Protein_2B	A2	Protein_1A	B1	99.649254%
Protein_2B	A2	Protein_2A	B2	99.93794%
Protein_2B	A2	Protein_3A	B3	99.7226%
Protein_2B	A2	Protein_4A	B4	4.803219%
Protein_2B	A2	Protein_5A	B5	5.5040655%
Protein_2B	A2	Protein_6A	B6	43.705635%
Protein_3B	A3	Protein_1A	B1	99.769684%

PPI
INTERACTION
TABLE

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Protein-Protein Interaction Network



INTERACTIVE
INTERACTION
NETWORK

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Predict PPI Among Single Group

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Protein Sequence 1

Enter Protein 1 Sequence...

Protein Sequence 2

Enter Protein 2 Sequence...

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☐ Predict PPI Among Different Group

Protein Sequences Group 1

[Choose file](#) No file chosen

Protein Sequences Group 2

[Choose file](#) No file chosen

Predict Interaction

Reset

[Download Example group 1](#)

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(1) SELECT

☒ Predict PPI Among Single Group

Select File Containing Protein Sequences

[Choose file](#) No file chosen

Predict Interaction

Reset

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(2)
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Submit Protein Sequences

☐ **Predict Pairwise Protein-Protein Interaction**

Protein Sequence 1

Protein Sequence 2

Predict Interaction

Reset

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☐ **Predict PPI Among Different Group**

Protein Sequences Group 1

Choose file

No file chosen

Protein Sequences Group 2

Choose file

No file chosen

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☒ **Predict PPI Among Single Group**

Select File Containing Protein Sequences

Choose file

PPI_ex_group_single.fasta



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Protein-Protein Interaction Table

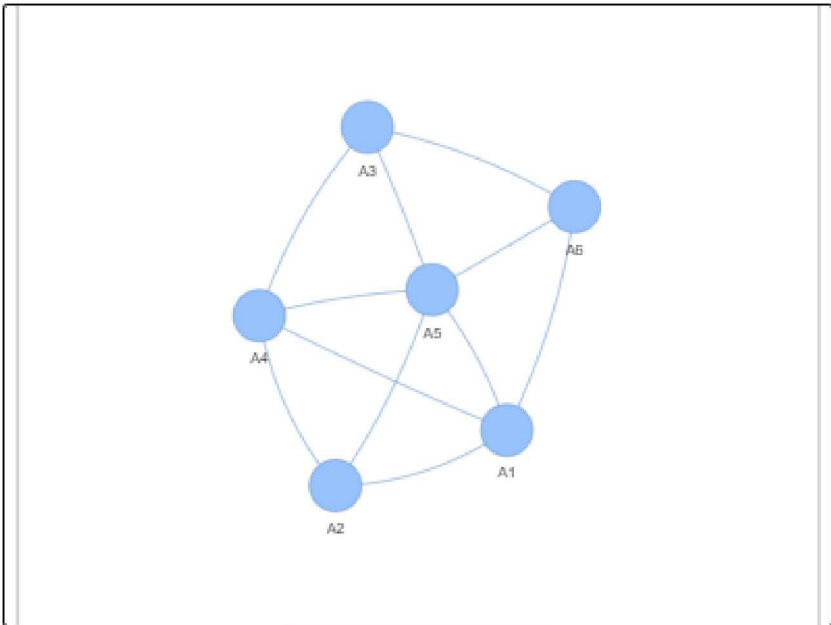
Protein1_name	id_1	Protein2_name	id_2	Interaction_Probability(%)
Protein_1B	A1	Protein_2B	A2	99.458275%
Protein_1B	A1	Protein_3B	A3	24.830832%
Protein_1B	A1	Protein_4B	A4	79.038574%
Protein_1B	A1	Protein_5B	A5	99.11259%
Protein_1B	A1	Protein_6B	A6	52.103622%
Protein_2B	A2	Protein_3B	A3	18.596075%
Protein_2B	A2	Protein_4B	A4	91.48302%
Protein_2B	A2	Protein_5B	A5	99.66197%
Protein_2B	A2	Protein_6B	A6	43.903683%
Protein_3B	A3	Protein_4B	A4	93.67606%
Protein_3B	A3	Protein_5B	A5	99.80939%
Protein_3B	A3	Protein_6B	A6	67.780975%
Protein_4B	A4	Protein_5B	A5	98.43002%
Protein_4B	A4	Protein_6B	A6	52.103622%
Protein_5B	A5	Protein_6B	A6	43.903683%

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INTERACTION
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Protein-Protein Interaction Network



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