





Week report

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September 4th, 2020

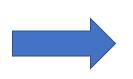






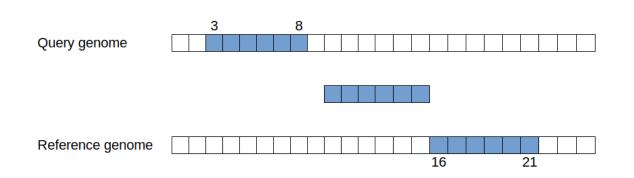
Genomes comparison

	Sr	Er	Sq	Eq	len_r	len_q	%IDY
0	8701	184119	1	175451	175419	175451	99.88
1	184133	193002	176105	184984	8870	8880	98.93
2	193099	218454	184979	210400	25356	25422	98.49
3	218635	246229	225148	252840	27595	27693	98.36
4	247275	249168	252834	254721	1894	1888	98.94

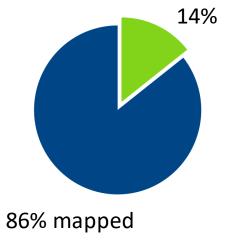


	qpos	qbase	rpos	rbase	inversion
0	1	a	8701.0	a	False
1	2	a	8702.0	a	False
2	3	a	8703.0	С	False
3	4	С	8704.0	С	False
4	5	С	8705.0	С	False

5.208 contigs



44.011.168 Mb

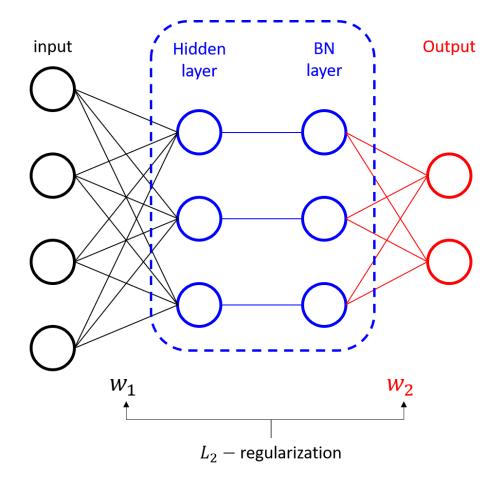








NOCD



Input:

Adjacency matrix $A \in \{0,1\}^{N \times N}$ Attribute matrix $X \in \mathbb{R}^{N \times D}$ Real affiliation matrix $Z \in \{0,1\}^{N \times C}$

Output:

Affiliation matrix $F \in \mathbb{R}^{N \times C}_{\geq 0}$ Threshold $\to F \in \{0, 1\}^{N \times C}$

$$F := GCN_{\theta}(A, X)$$

$$= ReLU(\hat{A} ReLU(\hat{A}XW^{(1)})W^{(2)})$$







Real affiliation matrix

	Cluster 1	Cluster 2	Cluster 3	Cluster 4	•••	Cluster C
Gen 1	1	0	0	1	•••	0
Gen 2	0	0	0	1	•••	1
Gen 3	0	0	0	0		0
•••		•••	•••	•••		•••
Gen N	0	1	1	1	•••	1

Reported stress-responsive genes to salt stress







Problem:

Gene nomenclature

Feat name 13105.t00687



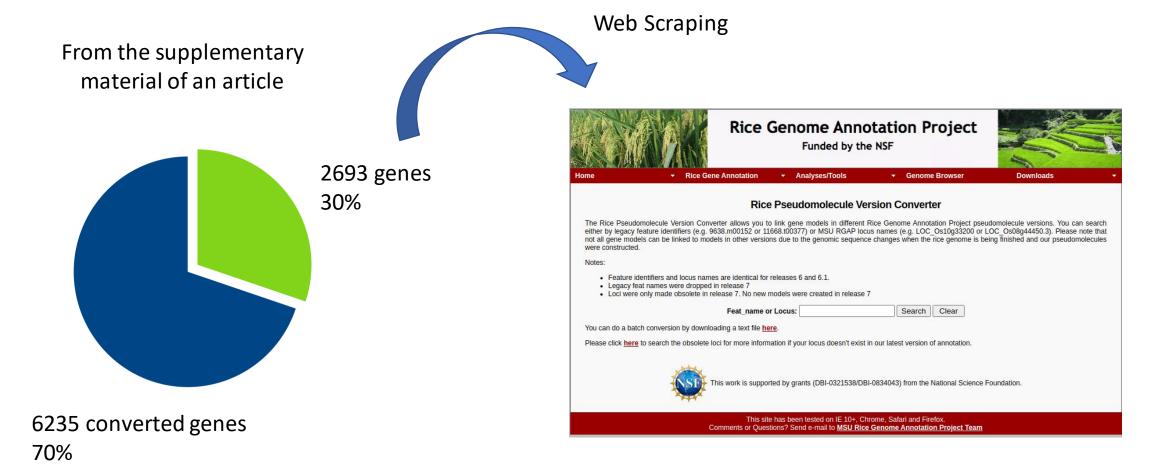
Locus identifier LOC_Os01g46380







Gene nomenclature conversion













Aliados























IES Ancla













Apoyan



