

Supporting information:

Supplementary Tables:

Supplementary Table S1: Nidhi and Panvel1 Urea DEGs

Supplementary Table S2: Gene Ontology analysis of Nidhi and Panvel1 DEGs

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Supplementary Table S4: Transporters of genotype Nidhi and Panvel1 encoded by DEGs, their genes, families, functions and references

Supplementary Table S5: Functional categorization of Transporters in Nidhi and Panvel1

Supplementary Table S6: Transcription Factors of genotype Nidhi and Panvel1 encoded by DEGs, their genes, families, functions and references

Supplementary Table S7: Functional categorization of Transcription factors in Nidhi and Panvel1

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Supplementary Table S12: Details of the DEGs-associated post-translational modifications in Nidhi and Panvel1

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Supplementary Table S14: NUE-QTLs (from literature) and Nidhi urea NUE-genes colocalized onto NUE-QTLs

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Supplementary Table S16: Urea- and nitrate-responsive common and exclusive genes and associated pathways in Nidhi and Panvel1.

Supplementary Figures:

Supplementary Figure S1: Scatter plots show the correlation between the microarray data of Nidhi and Panvell1 grown under low (1.5 mM) and normal (15 mM) urea.

Supplementary Figure S2: Heatmap represents the expression pattern of urea regulated differentially expressed top two transporters and transcription factors' families for Nidhi and Panvell1 rice contrasting genotypes.

Supplementary Figure S3: DEGs associated protein-protein interaction (PPI) networks developed in Nidhi under low urea condition.

Supplementary Figure S4: DEGs associated protein-protein interaction (PPI) networks developed in Panvell1 under low urea condition.

Supplementary Figure S5: DEGs associated molecular complexes/subclusters detected in the protein-protein interaction networks developed in Nidhi.

Supplementary Figure S6: DEGs associated molecular complexes/subclusters detected in the protein-protein interaction networks developed in Panvell1.

