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Integration of RNA-Seq and RPPA data for survival time prediction in cancer patients

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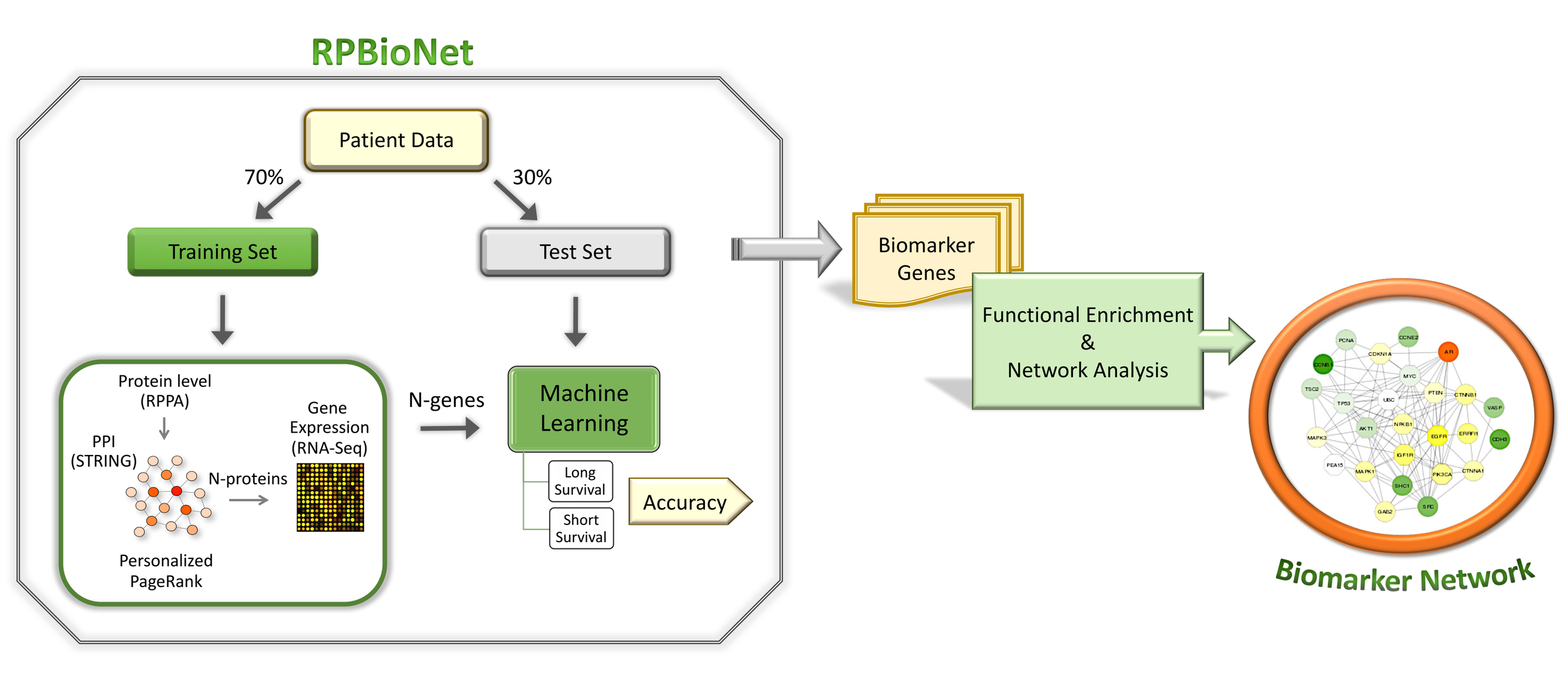
RPBioNet
Patient Data
70%
30%
Training Set
Test Set
Protein level
(RPPA)
PPI
(STRING)
N-proteins
Gene
Expression
(RNA-Seq)
Personalized
PageRank
N-genes
Machine
Learning
Long
Survival
Short
Survival
Accuracy
Biomarker
Genes
Functional Enrichment
&
Network Analysis
PCNA
CCNE2
CDKN1A
AR
CCNB1
MYC
TSC2
TP53
UBC
PTEN
CTNNB1
VASP
AKT1
NFKB1
MAPK3
EGFR
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CDH3
IGF1R
PEA15
MAPK1
PIK3CA
CTNNA1
SHC1
SFC
GAB2
Biomarker Network

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