

## Supplementary Information for

# Identification of miR-20a as A Potential Discerning Biomarker for Non-Invasive versus Invasive Retinoblastoma

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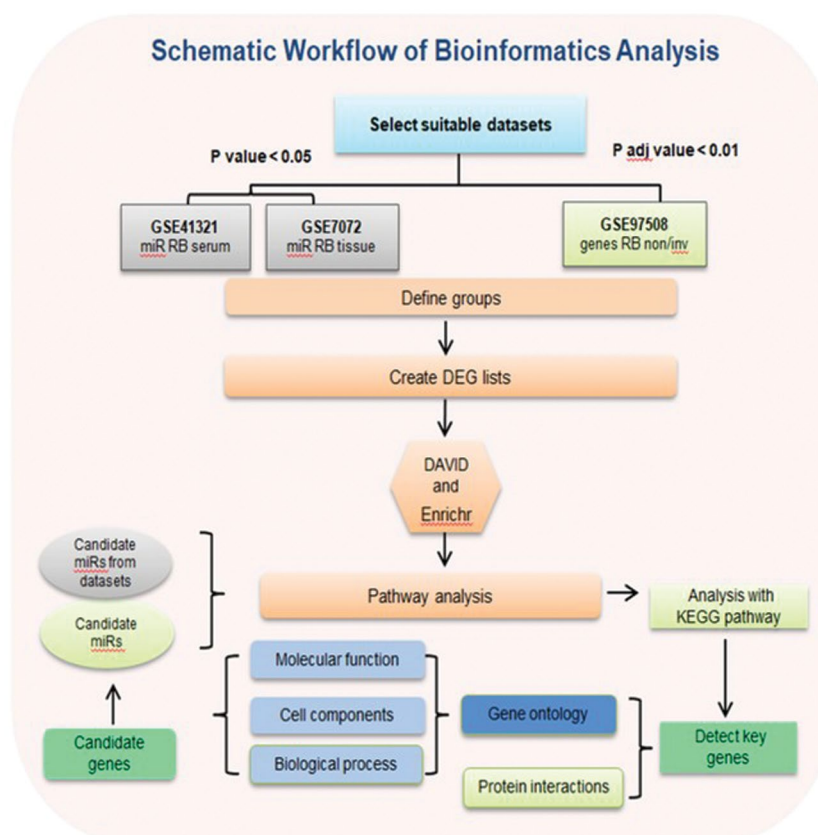
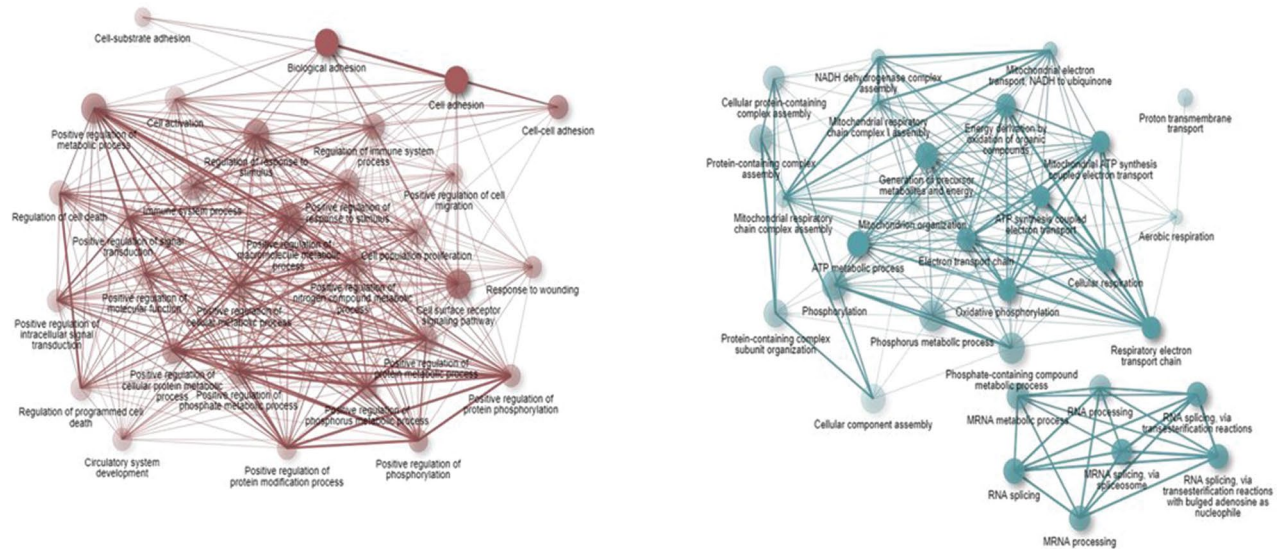


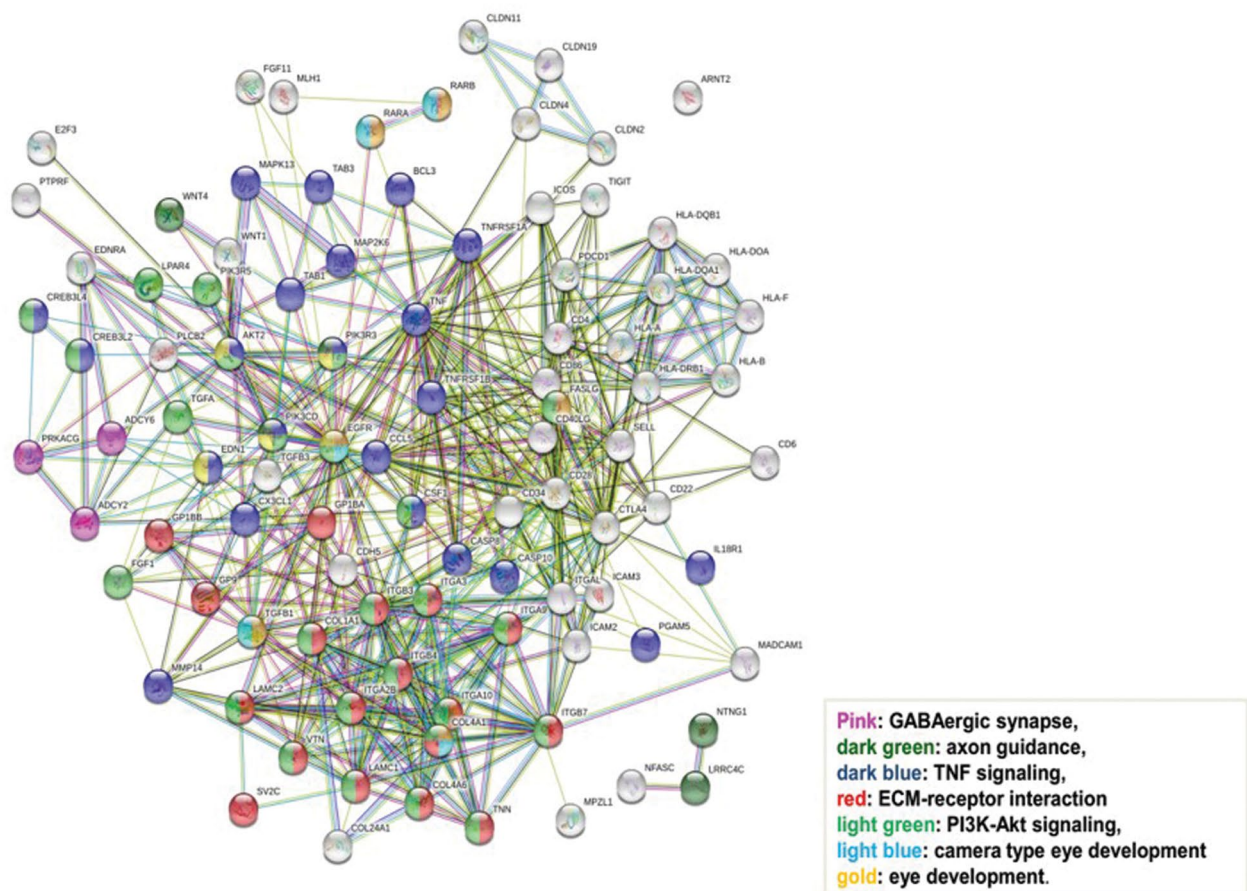
Fig.S1: Schematic pathway of bioinformatics analysis.

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**Fig.S2:** The GO of the genes involved in the up/down pathways was investigated and important and suspected genes in retinoblastoma were selected. GO; Gene ontology.



**Fig.S3:** The association between upregulated proteins has been demonstrated in this network. Pink; GABAergic synapse, Dark green; Axon guidance, Dark blue; TNF signaling, Red; ECM-receptor interaction, Light green; PI3K-Akt signaling, Light blue; Camera type eye development, and Gold; Eye development.

**Table S1:** Information and background variables related to blood samples of patients and healthy individuals.

Name	Sex	Age	Laterality	Invasive/non	Hereditary	Stages in Right/left eyes	Recurrence
Rb 1	Girl	3 Y	Bilateral	Invasive	-	A/E	-
Rb 2	Girl	3 Y	Unilateral	Invasive	-	E	-
Rb 3	Girl	1 Y 2 M	Unilateral	Invasive	-	D	-
Rb 4	Girl	7 M	Bilateral	Invasive	+	D/D	-
Rb 5	Girl	1 Y	Unilateral	invasive	-	E	-
Rb 6	Girl	1 Y 6 M	Bilateral	invasive	-	D/C	-
Rb 7	Girl	2 Y	Bilateral	invasive	-	D/D	-
Rb 8	Boy	6 M	Unilateral	invasive	-	D	-
Rb 9	Boy	1 Y	Bilateral	invasive	-	B/E	-
Rb 10	Girl	2 Y 6 M	Unilateral	invasive	-	D	-
Rb 11	Girl	11 M	Bilateral	Non-invasive	-	D/C	-
Rb 12	Boy	17 M	Unilateral	Non-invasive	-	C	-
Rb 13	Boy	2 Y	Unilateral	Non-invasive	-	C	-
Rb 14	Girl	2 Y 2 M	Bilateral	Non-invasive	-	D/E	-
Rb 15	Boy	2 Y	Unilateral	Non-invasive	-	B	-
Rb 16	Boy	1 Y 9 M	Unilateral	Non-invasive	-	C	-
Rb 17	Boy	1 Y 3 M	Bilateral	Non-invasive	-	C/C	-
Rb 18	Girl	2 Y 10 M	Bilateral	Non-invasive	-	A/C	-
Ctrl 1	Female	25 Y	-	-	-	-	-
Ctrl 2	Female	27 Y	-	-	-	-	-
Ctrl 3	Male	26 Y	-	-	-	-	-
Ctrl 4	Male	27 Y	-	-	-	-	-

RB tumors are classified into five groups (A, B, C, D, and E), ranging from less severe cases (seen in non-invasive conditions) such as group A, involving small tumors to more severe instances (observed in invasive conditions) like group E.