Galectin-14 promotes hepatocellular carcinoma tumor growth via enhancing heparan sulfate proteoglycan modification

Running title: Galectin-14 promotes hepatocellular carcinoma tumor growth

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Supplementary Fig. 1 Expression of galectin-14 in HCC cell lines. qPCR to detect the expression of galectin-14 in HCC cell lines. Values represent the mean ± SD (n=3). (HEK-293T: Human embryonic kidney cell line. LO2: Human normal liver cell line. LM3, JHH-7, MHCC-97H, SNM-398, Huh-7, Hep3B and HepG2: HCC cell lines)

Supplementary Fig. 2 Galectin-14 promoted proliferation of OVCAR3 cells in vitro and affected the expression of HSPGs in OVCAR3. A: Western blot to detect the galectin-14 expression in OVCAR3 cells. B: WST assay to detect cell proliferation after galectin-14 knockdown in Huh-7 cells. Values represent the mean ± SD (n=3). Statistical analyses are performed by two-way ANOVA. C: Flow cytometry to detect the expression of HSPGs in OVCAR3 cells before and after galectin-14 knockdown. The bar chart is the Geometric Mean of the flow peak chart. Values represent the mean ± SD (n=3). Statistical analyses are performed by Student's t-test. *P<0.05, **P<0.01, ****P<0.0001.
**Supplementary Fig. 3** Expression of galectin-14 after knockdown of EXT1 in wild-type cells and galectin-14 knockdown Huh-7 cells. qPCR to detect EXT1 and galectin-14 mRNA expression after knockdown of EXT1 in wild-type and galectin-14 knockdown Huh-7 cells. Values represent the mean ± SD (n=3). Statistical analyses are performed by two-way ANOVA. \( P*<0.05, \ P**<0.01. \)