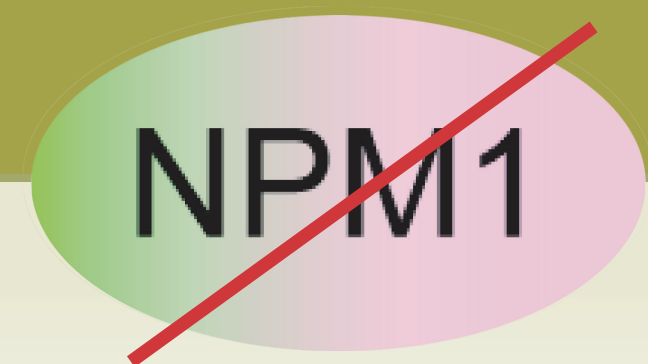
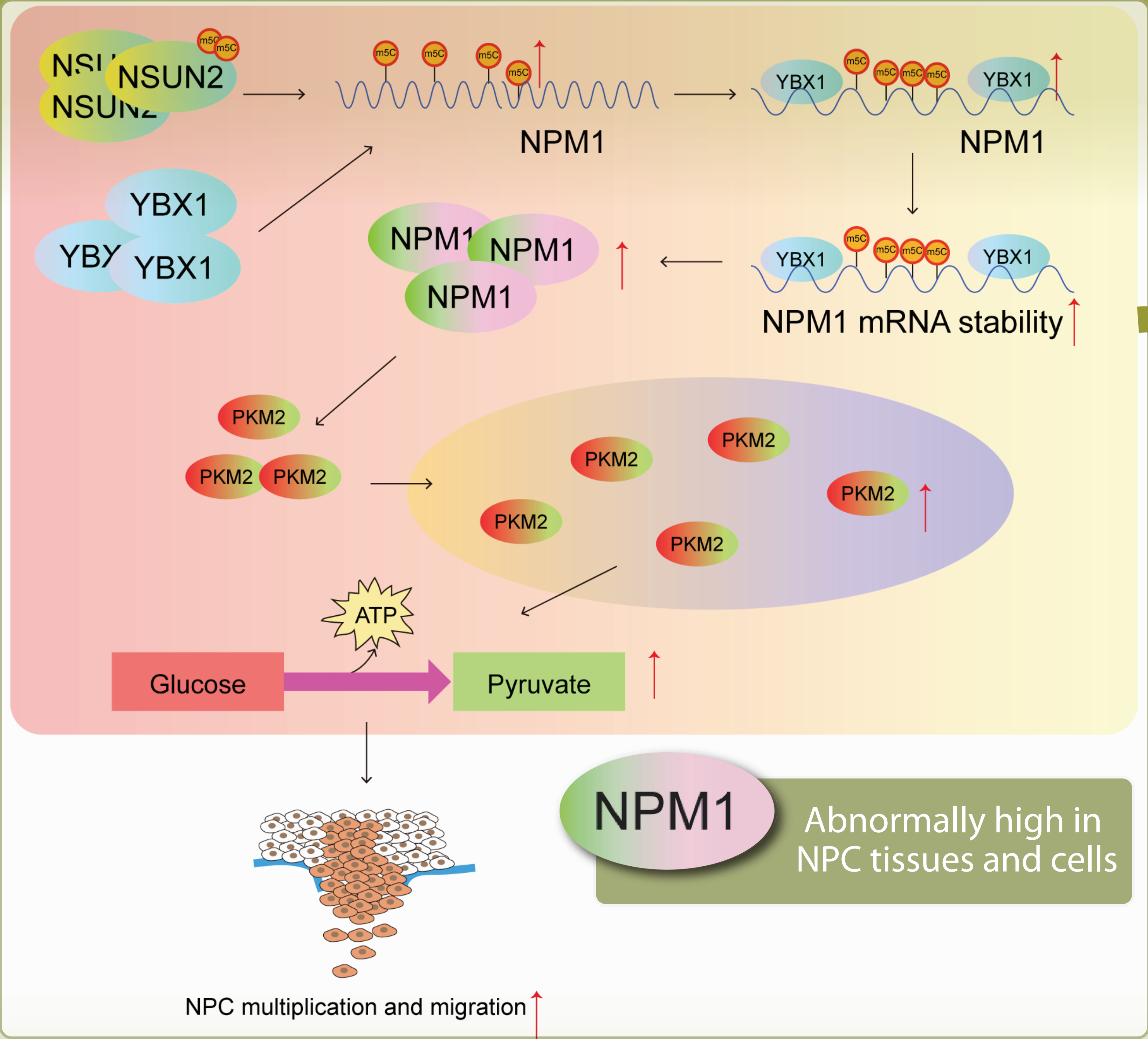


The NSUN2-YBX1 axis enhances m⁵C modification to facilitate NPM-1 mediated nuclear translocation of PKM2, augmenting the Warburg effect and promoting nasopharyngeal carcinoma (NPC) progression in a mouse model



NPM1 silencing

- Inhibited aerobic glycolysis
- Suppressed NPC progression and metastasis
- Reduced PKM2 nuclear translocation

NSUN2-YBX1 axis induces m⁵C modification of NPM1

NPM1 mRNA stability and expression increases

Nuclear translocation of PKM2 is facilitated

Promotion of aerobic glycolysis,
NPC proliferation and metastasis

➔ **Potential in targeting NPM1 as a novel
therapeutic approach for NPC**