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IgM and IgD heavy chains of yellow catfish (*Pelteobagrus fulvidraco*): Molecular cloning, characterization and expression analysis in response to bacterial infection

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## Highlights

- Full-length cDNA sequences of IgM and IgD heavy chains were identified and analyzed from yellow catfish (*Pelteobagrus fulvidraco*).
- Bacterial infection model of yellow catfish with *F. columnare* G<sub>4</sub> via immersion was firstly constructed.
- Significantly higher expressions of *Pf*-IgM and *Pf*-IgD were detected in spleen and liver while only *Pf*-IgM was significantly up-regulated in mucosal tissues in response to infection with *F. columnare* G<sub>4</sub>.

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