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Characterization of galectin-1 from Chinese giant salamanders *Andrias davidianus* and its involvements during immune response

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Highlights

- The galectin-1 gene was identified and characterized in *Andrias davidianus*.
- *AdGal1* was ubiquitously expressed in all tested tissues.
- *AdGal1* could be up-regulated in kidney after *Aeromonas hydrophila* and GSIV infection.
- Recombinant AdGal1 protein could bind to different bacteria.
- rAdGal1 strongly agglutinate different kinds of bacteria at different concentrations.