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In Vitro Improved Production of Monoclonal Antibody against Zearalenone in Supplemented Cell Culture Media

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This is Electronic Supplementary Material (ESI) for PSM Biological Research.

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Electronic Supplementary Material

Mycotoxins are known as poisonous metabolites of fungi

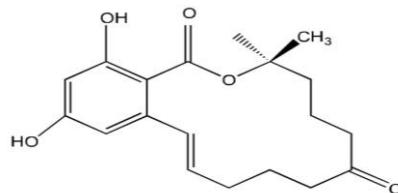


Fig. S1. Chemical structure of zearalenone.

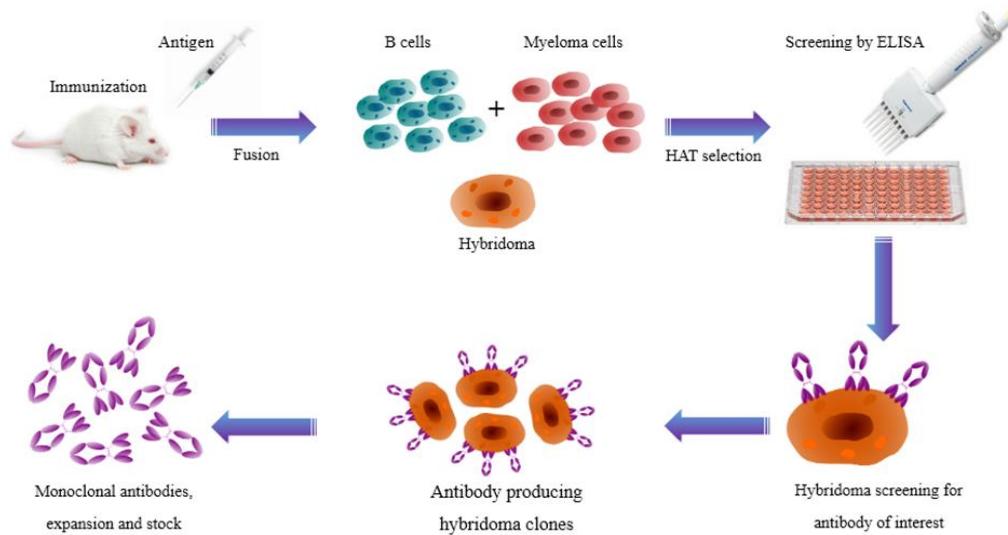


Fig. S2. Illustration showing the production route of hybridoma technology. Monoclonal antibodies are generated by immunizing laboratory animals with a target antigen. B cells and myeloma cells are fused and then selected in HAT medium. Finally, hybridoma cells producing the desired antibodies are screened.

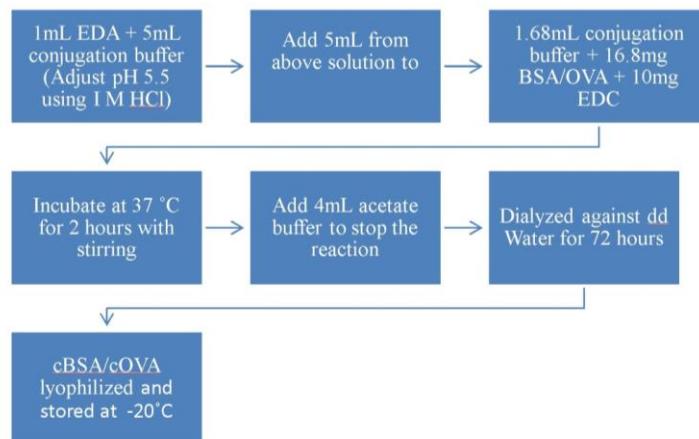


Fig. S3. Schematic illustration of preparation of cationic proteins (cBSA and cOVA)

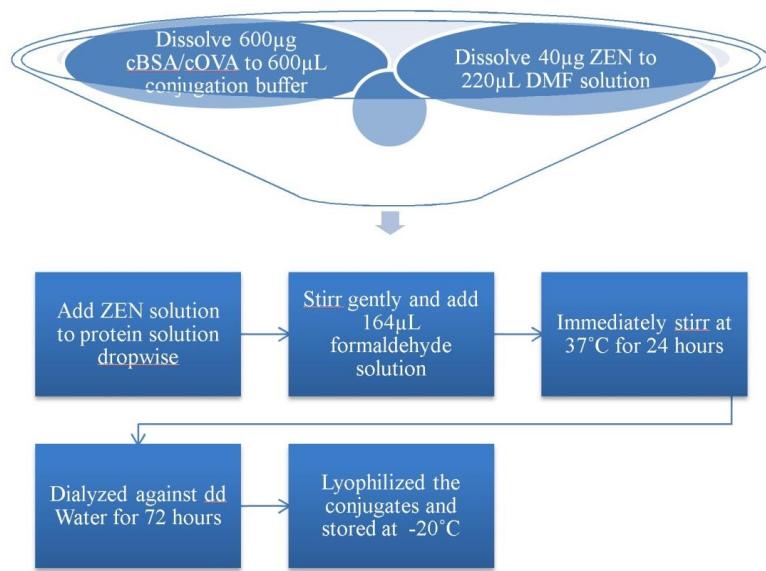


Fig. S4. Schematic illustration of preparation of ZEN-cationic protein conjugates by Mannich-type reaction with larger carrier proteins i.e., bovine serum albumin and albumin. The conjugation was confirmed with polyacrylamide gel electrophoresis and protein concentration was determined with bicinchoninic acid assay.

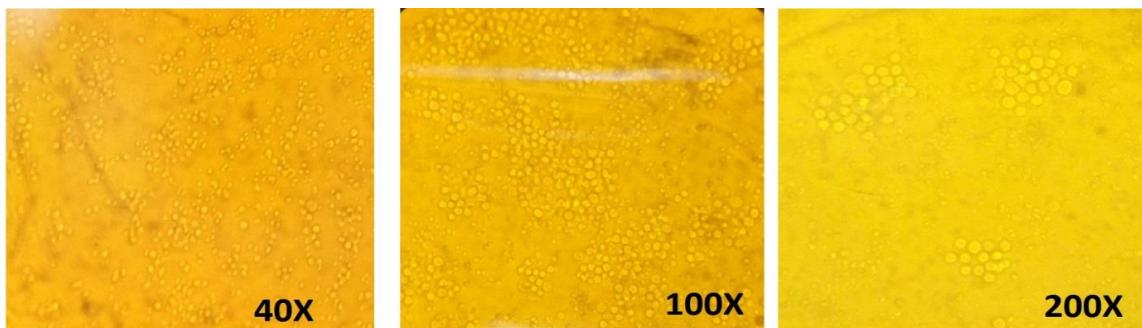


Fig. S5. Hybridoma cell colonies growing at day 7 were observed under inverted microscope at various magnifications.