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- Roles of mushroom polysaccharides in chronic disease management** 1839  
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- Influence of high-molecular-weight glutenin subunit deletions at the *Glu-A1* and *Glu-D1* loci on protein body development, protein components and dough properties of wheat (*Triticum aestivum* L.)** 1867  
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- Variations in the quality parameters and gluten proteins in synthetic hexaploid wheats solely expressing the *Glu-D1* locus** 1877  
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- Identification and characterization of long-InDels through whole genome resequencing to facilitate fine-mapping of a QTL for plant height in soybean (*Glycine max* L. Merr.)** 1903  
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- Overexpression of *MdMIPS1* enhances drought tolerance and water-use efficiency in apple** 1968  
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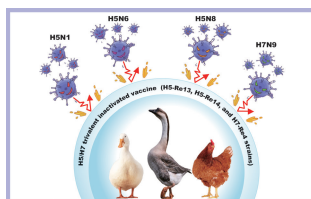
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**COVER**



H5N1 and H5N8 viruses bearing the clade 2.3.4.4b HA gene have been widely circulating in wild birds and are responsible for the loss of over 100 million domestic poultry in Europe, Asia, and North America since January 2020. To prevent domestic poultry from being infected with these exotic viruses, a novel trivalent vaccine with the seed viruses H5-Re13, H5-Re14, and H7-Re4 that carry the HA and NA genes of the newly detected H5N6 virus, H5N8 virus, and H7N9 virus, respectively, was developed in China. Animal studies proved that this novel H5/H7 trivalent vaccine is immunogenic and could provide solid protection against the H5N1, H5N6, H5N8, and H7N9 viruses that are currently circulating in nature. Given the sound protective efficacy of this vaccine and the wide circulation of different H5 and H7 viruses, it's recommended that this new H5/H7 trivalent inactivated vaccine be used not only in China, but also in other countries where poultry are threatened by H5 and H7 viruses. The cover photo shows the solid protection of the vaccine against different viruses, which was provided by Prof. Chen Hualan from Harbin Veterinary Research Institute, Chinese Academy of Agricultural Sciences, China. See pages 2086–2094 for more details.