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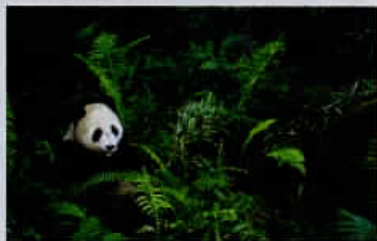
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A false-colour scanning electron microscopy image of the fungus *Aspergillus fumigatus*. In this issue, Gordon Brown and his colleagues investigate how mammals can detect melanin in the cell walls of the fungal spores. They identify a new cell receptor that senses DHN-melanin and triggers an immune response against *Aspergillus* infection. **PAGE 319 & 382**

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