

Psychedelics

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Cover Art

Cover Image: Psilocybin-containing mushrooms and the systematic evidence for treating obsessive-compulsive behaviors. This issue's cover features *Psilocybe cubensis* mushrooms, displaying the characteristic blue bruising from psilocin oxidation. The image accompanies the systematic review by Gattuso and colleagues, which synthesizes clinical and preclinical evidence demonstrating that psilocybin produces consistent reductions in obsessive-compulsive behaviors. In clinical studies, single doses led to rapid symptom reductions persisting for weeks. In SAPAP3 knockout mice, a validated genetic model of compulsive behavior, single psilocybin administration produced robust, enduring reductions in excessive grooming, independently replicated across laboratories. These convergent findings across species point toward common neural mechanisms in cortico-striatal circuits, with implications for novel treatments across the obsessive-compulsive and related disorders spectrum. The systematic review by Gattuso et al. (pages 15–31) is discussed in the accompanying editorial by Licinio and Wong (pages 1–3).

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