



---

**Review**

## Preclinical studies on comorbidity between depression and psychostimulant addiction

Małgorzata Filip<sup>1,2</sup>, Małgorzata Frankowska<sup>1</sup>, Joanna Jastrzębska<sup>1</sup>,  
Karolina Wydra<sup>1</sup>, Edmund Przegaliński<sup>1</sup>

<sup>1</sup>Laboratory of Drug Addiction Pharmacology, Department of Pharmacology, Institute of Pharmacology, Polish Academy of Sciences, Smętna 12, PL 31-343 Kraków, Poland

<sup>2</sup>Department of Toxicology, Faculty of Pharmacy, Jagiellonian University College of Medicine, Medyczna 9, PL 30-688 Kraków, Poland

**Correspondence:** Edmund Przegaliński, e-mail: przegal@if-pan.krakow.pl

---

**Abstract:**

Several clinical data indicate that depression is frequently comorbid with psychostimulant (cocaine, amphetamines) addiction. This short review summarizes preclinical results and observations showing how reward processes are modified in animal models of depression, and which depression-like effects are induced in experimental animals withdrawn from chronic treatment with psychostimulants.

**Key words:**

depression, drug addiction, comorbidity, psychostimulants, preclinical studies

---