

## 除草剤低濃度長期暴露における中枢変性障害機構

- Shimizu K, Ohtaki T, Matsubara K, Aoyama K, Uezono T, Saito O, Suno M, Hayase N, Kimura K, Shiono H. Carrier-mediated processes in blood-brain barrier penetration and neural uptake of **paraquat**. *Brain Res.* 906: 135-142, 2001.
- Shimizu K, Matsubara K, Ohtaki K, Shiono H. **Paraquat** leads to dopaminergic neural vulnerability in organotypic midbrain culture. *Neurosci. Res.* 46: 523-532, 2003.
- Shimizu K, Matsubara K, Ohtaki K, Fujimaru S, Saito O, Shiono H. **Paraquat** induces long-lasting dopamine overflow through the excitotoxic pathway in the striatum of freely moving rats. *Brain Res.* 976: 243-252, 2003.
- Omura T, Asari M, Yamamoto J, Oka K, Hoshina C, Maseda C, Awaya T, Tasaki Y, Shiono H, Yonezawa A, Masuda S, Matsubara K, Shimizu K. Sodium taurooursodeoxycholate prevents **paraquat-induced cell death** by suppressing endoplasmic reticulum stress responses in human lung epithelial A549 cells. *Biochem. Biophys. Res. Commun.* 432: 689-694, 2013.

## 除草剤暴露時の肺障害機構

- Omura T, Asari M, Yamamoto J, Oka K, Hoshina C, Maseda C, Awaya T, Tasaki Y, Shiono H, Yonezawa A, Masuda S, Matsubara K, Shimizu K. Sodium taurooursodeoxycholate prevents **paraquat-induced cell death** by suppressing endoplasmic reticulum stress responses in human lung epithelial A549 cells. *Biochem. Biophys. Res. Commun.* 432: 689-694, 2013.

## 事件関連物質の分析と体内分布

- K. Shimizu, H. Shiono, T. Fukushima, M. Sasaki, H. Akutsu, M. Sakata. Tissue distribution of DDVP after fatal ingestion. *Forensic Sci. Int.* 83: 61-66, 1996.
- Okuda K, Maseda C, Asari M, Isozaki S, Kiya H, Yajima D, Shiono H, Shimizu K. Postmortem diffusion of *n*-butane and *i*-butane used for anticontagious plugging spray. *Leg. Med.* 19: 83-87, 2016.
- Maseda H, Hayakawa A, Okuda K, Asari M, Tanaka H, Yamada H, Jin S, Horioka K, Matoba K, Shiono H, Matsubara K, Shimizu K. Liquid chromatography-tandem mass spectrometry method for the determination of thiosulfate in human blood and urine as an indicator of hydrogen sulfide poisoning. *Leg. Med.* 24: 67-74, 2017.