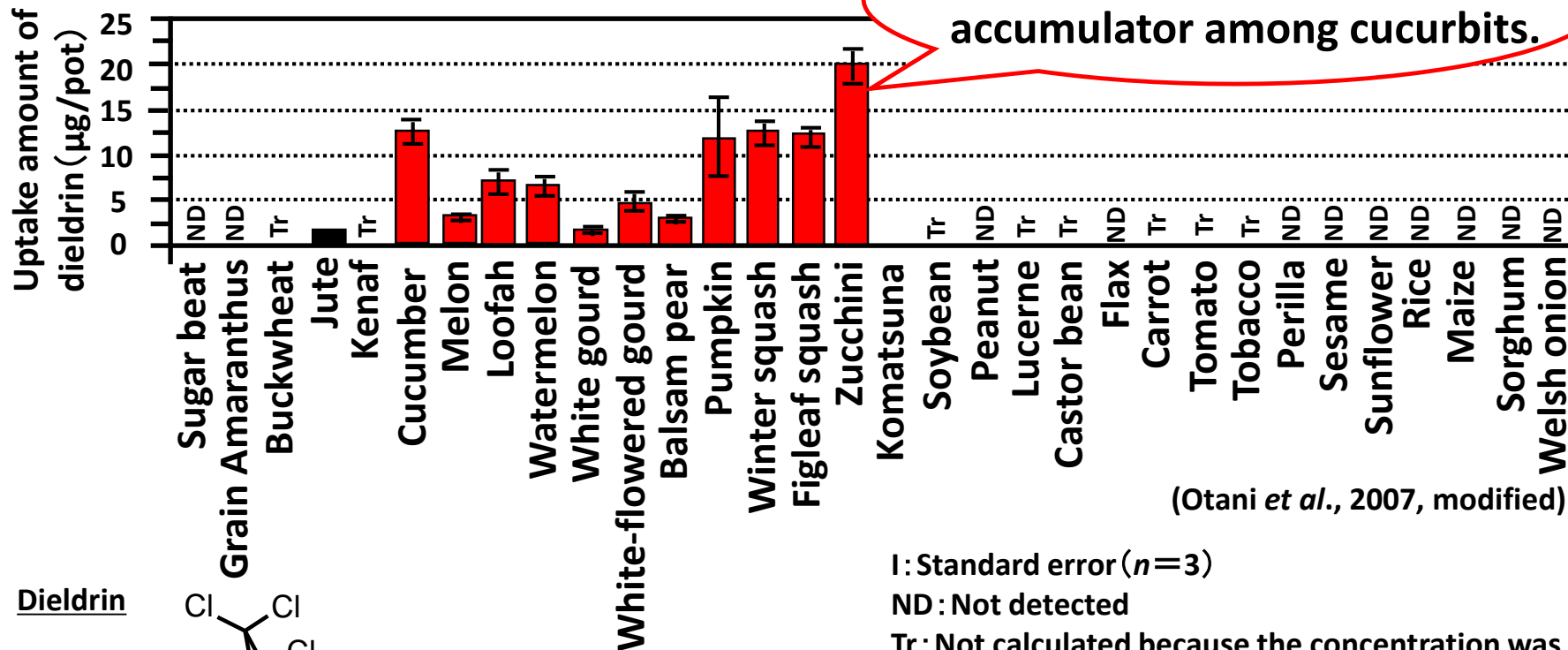


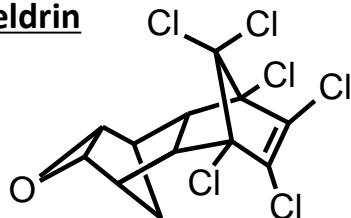
Accumulation of dieldrin in cucurbits



Zucchini is the highest accumulator among cucurbits.

(Otani *et al.*, 2007, modified)

Dieldrin



I: Standard error ($n=3$)

ND: Not detected

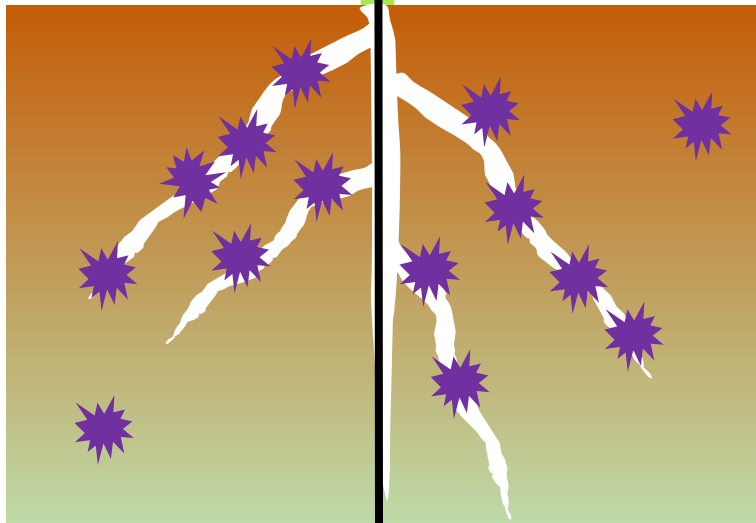
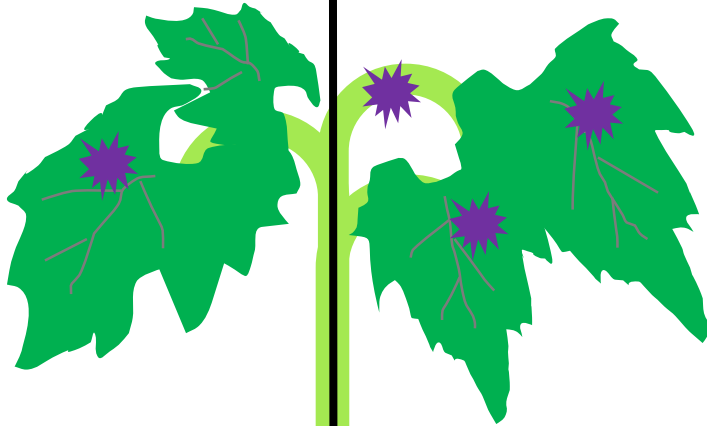
Tr: Not calculated because the concentration was < limits of quantitation

There are specific mechanisms for accumulation of dieldrin in cucurbits.

Accumulation of dioxins in cucurbits

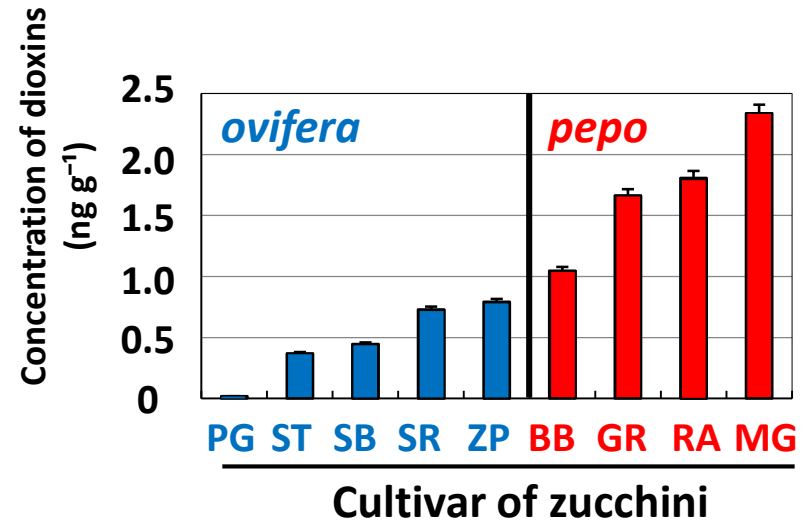
ovifera

pepo



 ...Dioxins

Soil contaminated with dioxins



(Matsuo *et al.*, 2011)

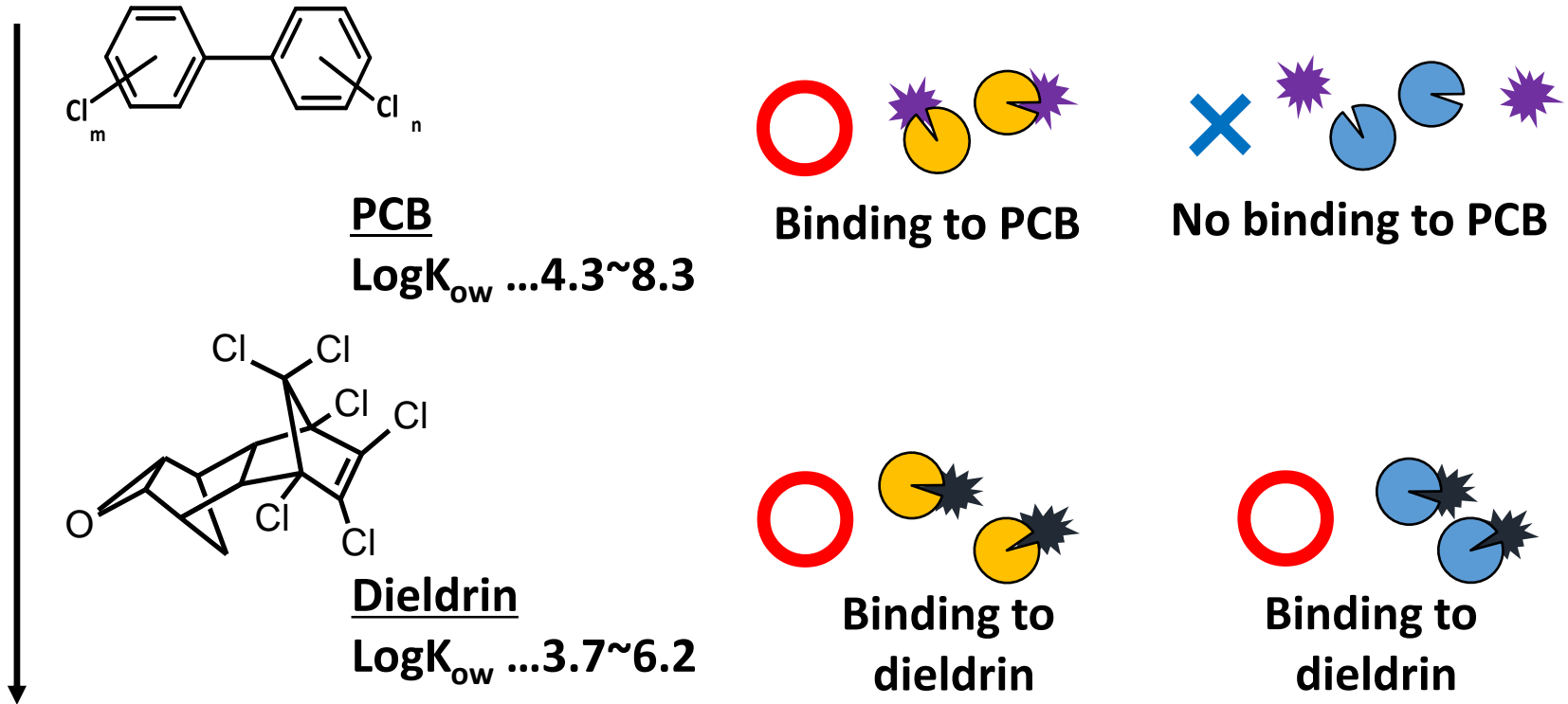
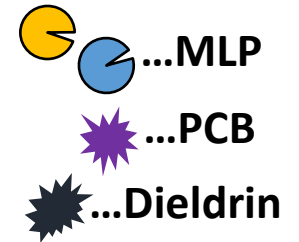
There are clear differences among cultivars of zucchini.

ovifera; Low accumulator

pepo; High accumulator

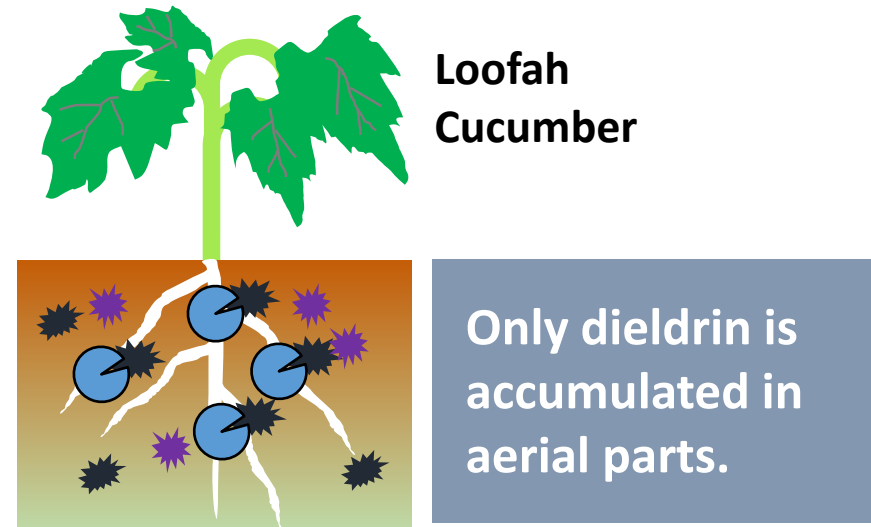
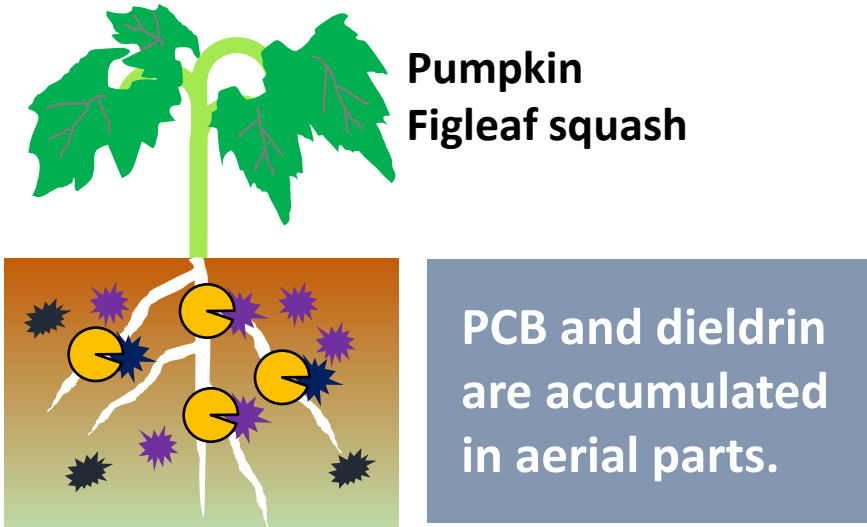
Conclusion

MLPs bind to PCB and dieldrin but their affinities are different.



Both MLPs (● ●) are transferred from roots to aerial parts with POPs.

Conclusion



Transportation to aerial parts of POPs in cucurbits and the kind of the pollution were controlled by MLPs.