## Model species: California King snake (Lampropeltis californiae)

Snakes are understudied But they exhibit a remarkable diversity of colour patterns!

Among them, *L.californiae* has one of the **simplest**: a repeat of black and white "bands" all over the body

It is a common snake in pet store, easy to breed and maintain Ease of observation

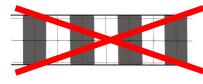
And, it shows an astonishing diversity of natural variants:



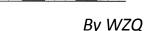






























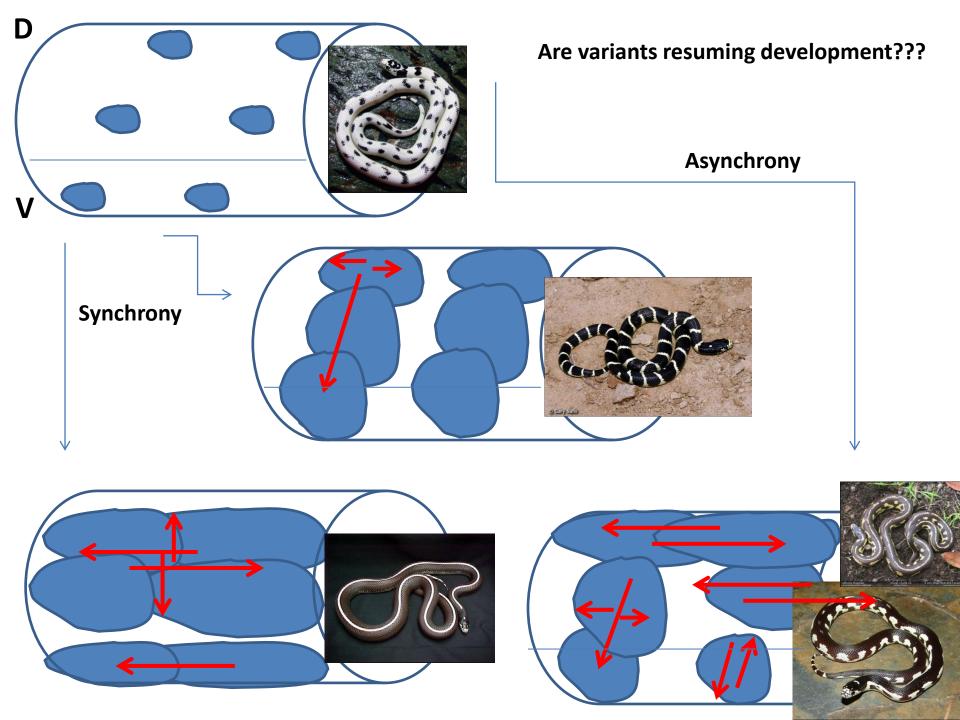












## **Hypothesis**

- 1/ At least 3 independent spots arise during development per side (seen in many many many species)
- 2/ They start to spread with one preferential direction or not (circle)
- 3/ independent spots can later develop in synchrony (reinforcement) or asynchrony with others

## **Problems**

From there, black spot with melanophores seem to be forming the prepattern. It is clearly different from what is described for zebrafish. In zebrafish, xantho et iridophore are the first one.

But in snakes, it was described the melano appears first...