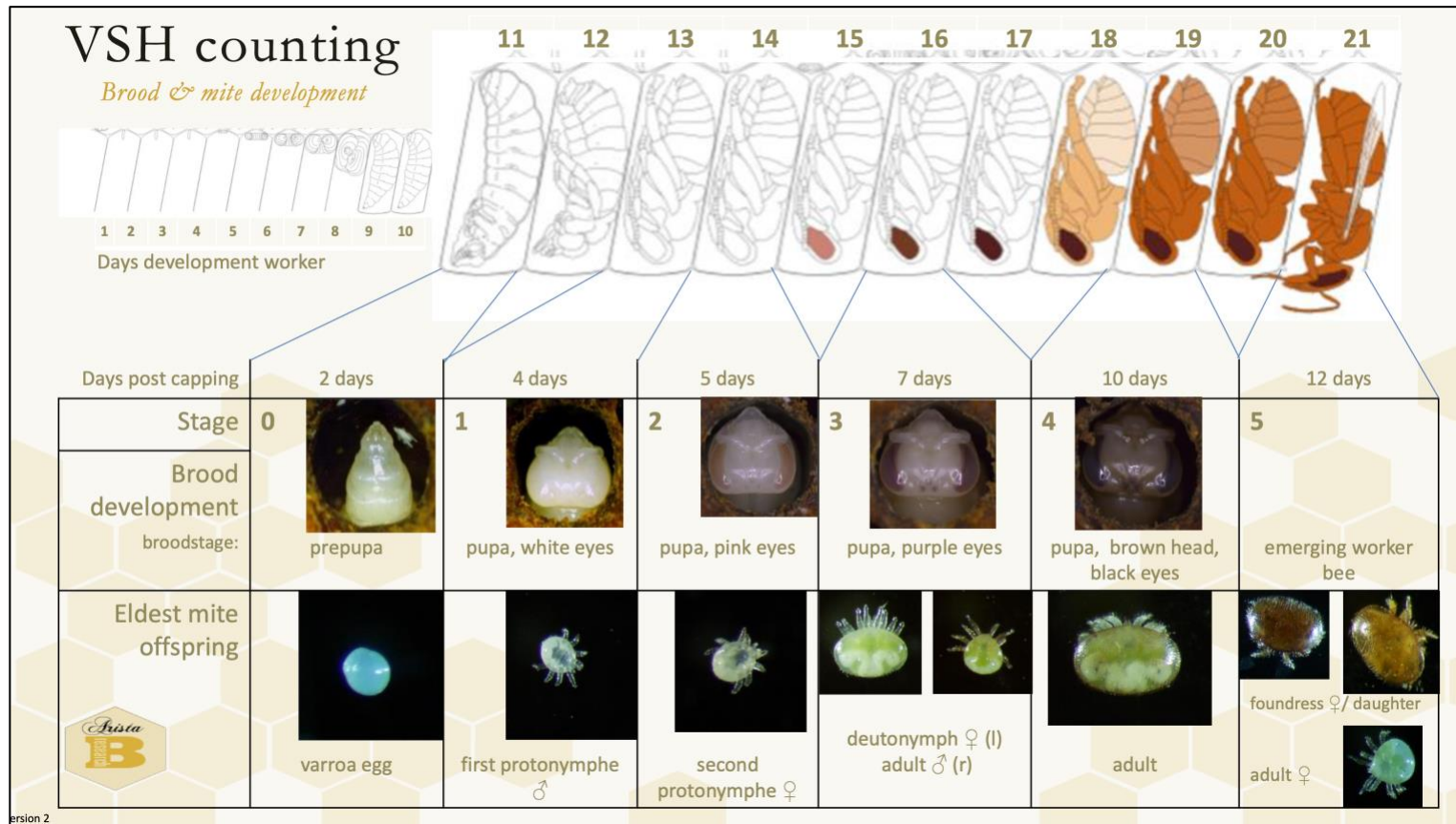


Determining Non-reproduction in *Varroa*



Images show the synchronous development of a honey bee pupa and the progeny of a *Varroa* mite that has infested the pupa. *Varroa* mites are considered non-reproductive if they have not produced an adult male and a female deutonymph on a bee pupa at the purple-eye stage, ≥ 7 days post capping.

Non-reproductive mites arise when the foundress mite:

- is dead
- produces no progeny at all
- produces progeny too late to mature when the adult bee emerges
- produces progeny of only one sex