

1. Voortplanting by Vertebrate:

> Ovipaar vs. Vivipaar vs. Ovivivipaar:

OVIPAAR:

- Interne en ekstern bevrugting
- Eiers word gelê
- Ontwikkeling van embrio vind buite moeder liggaam plaas
- Nadele:
 - Eiers is maklike prooi vir predatore

VIVIPAAR:

- Interne bevrugting
- Embrio ontwikkeling binne uterus van die moeder
- Ontvang voedingstowwe van moeder plasenta
- Voordele:
 - Beter beskerming van embrio

OVOVIVIPAAR:

- Interne bevrugting
- Eiers word gehou binne die moeder se liggaam
- Verkry voedingstowwe van die eiersak
- Eier broei uit binne die moeder se liggaam
- Word dan lewendig gebore
- Voordele:
 - Groter kans van nageslag om produseer te word
 - Goed ontwikkelde nageslag word produseer
 - Beskerming teen predatore

> Prekosiale vs. Altrisiële ontwikkeling:

PREKOSIAAL:

- Oë is oop as hul uitbroei
- Liggaam is **bedek** met sagte vere (**dons**)
- Instaat om vinnig na uitbroei te **beweeg**
- Instaat om **hulself** te **voed**
- **ONAFHANKLIK** van ouers
- Eiers verskaf **HOË energie** aan ontwikkelende embryos

ALTRISIEEL:

- Oë is **toe** as hul uitbroei
- Liggame is **NIE** bedek met **dons**
- **NIE** instaat om te **beweeg** kort na uitbroei
- **NIE** instaat om **hulself** te **voed** nie
- **AFHANKLIK** van ouers
- Eiers verskaf **MINDER energie** aan ontwikkelende embryos

> Amniotiese eier met ekstra-embriëniese membrane & funksies:

1. CHORION:

- ✓ Laat O₂ in en
- ✓ CO₂ deur die dop na buite

2. AMNION:

- ✓ Membraan wat die amnionholte omring en wat amniotiese vloeistof/ vrugwater bevat
- ✓ wat die embrio teen meganiese beserings beskerm.

3. ALLANTOIS:

- ✓ Stoor afval wat deur die embrio geproduseer word
- ✓ Funksioneer ook in gaswisseling

4. DOOIERSAK:

- ✓ Voeding aan die embrio

5. DOP:

- ✓ Voorkom uitdroging
- ✓ beskerming

> Ekstern en interne bevrugting:

EKSTERN:

- Sperm **bevrug** eiersel **BUITE** die liggaam van wyfie.
- **Water** word altyd **VEREIS**
- **Fisiese kontak** word **NIE VEREIS**
- Bv. visse, padder
- Nadele:
 - Kanse van bevrugting neem af
 - Groot hoeveelhede sperm nodig
 - Sigoot **NIE** goed **beskerm** teen **predatore** nie

INTERN:

- Sperm word **binne** die liggaam van die wyfie deponer
- Bevrugting vind **BINNE** wyfie voortplantingstelsel plaas
- Bv. voëls, soogdiere
- Voordele:
 - Kanse van bevrugting groot
 - Klein hoeveelhede sperm nodig
 - Sigoot **GOED** **beskerm** in wyfie

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Hussin A.Rothana

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