

# Lab Study: Embryonic Development

## Activity Outline

### Year Level 10-11

In this laboratory activity students examine the process of fertilisation and embryonic development of the polychaete tubeworm, *Galeolaria caespitosa*. Students will review the processes of mitosis and meiosis and compare and contrast the difference stages of embryonic development through a theoretical and practical first hand investigation.

#### Key terms:

Reproduction, haploid, diploid, chromosome, meiosis, mitosis, fertilisation, offspring, gametes, zygote, sexual reproduction, asexual reproduction, genetic, fission, morula, blastula, gastrula, cleavage, metamorphosis

#### Outcomes: Science Curriculum (ACARA)

Year 10; ACSSU184, ACSIS199, ACSIS200, ACSIS204, ACSIS208

Year 11; ACSBL062, ACSBL067, ACSBL075, ACSBL075

#### Key competencies

Collecting, analysing and organising information

Communicating ideas and information

Working with others and in teams

Working scientifically

Using technology