

## Example: Rat data

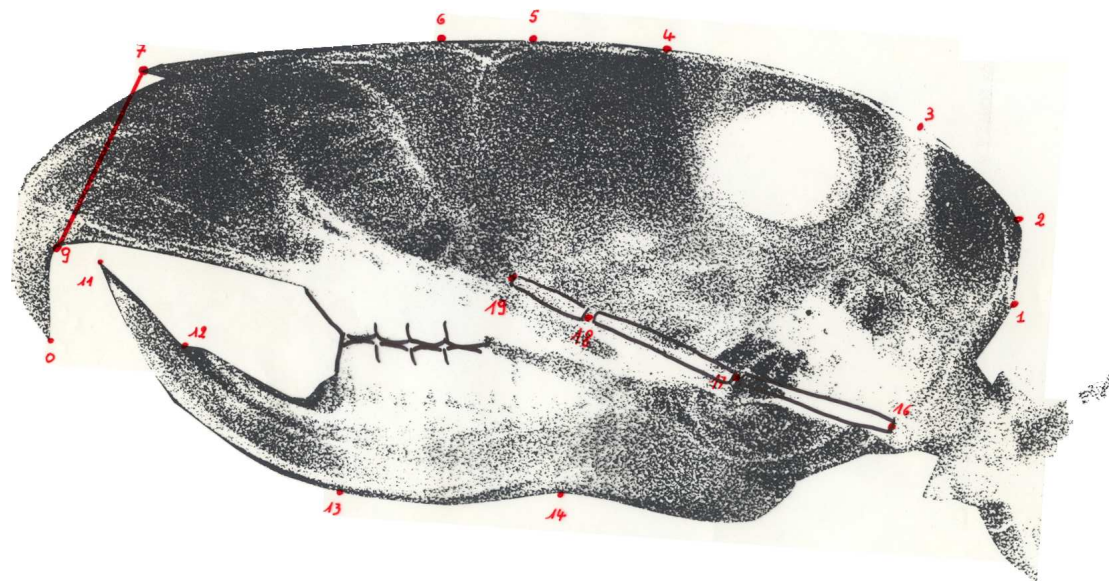
- Research question (Dentistry, K.U.Leuven):

How does craniofacial growth  
depend on testosterone production ?

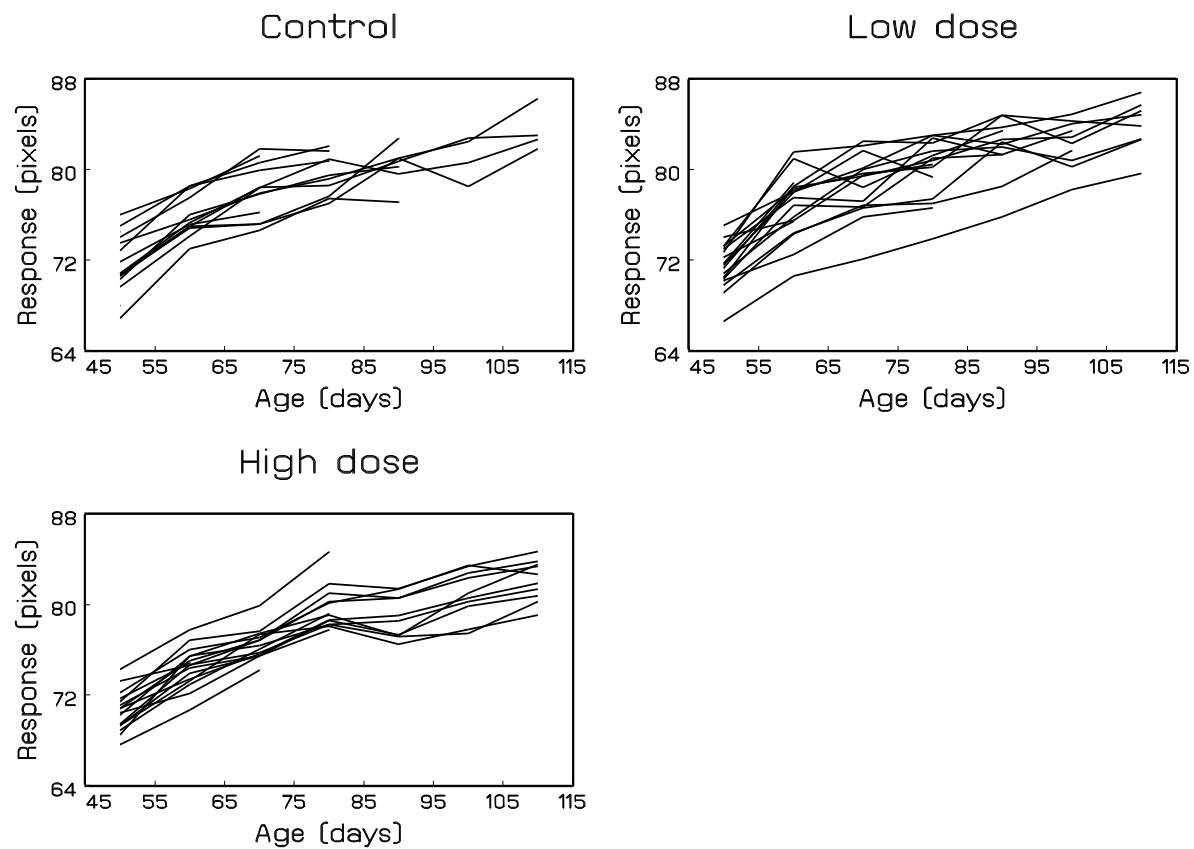
- Randomized experiment in which 50 male Wistar rats are randomized to:
  - Control (15 rats)
  - Low dose of Decapeptyl (18 rats)
  - High dose of Decapeptyl (17 rats)

## Measured outcome(s)

- Treatment starts at the age of 45 days; measurements taken every 10 days, from day 50 on.
- The responses are distances (pixels) between well defined points on x-ray pictures of the skull of each rat:



# Individual profiles



**Complication:** Dropout due to anaesthesia (56%)