

# Olfactory discrimination of aliphatic 2-ketones and 1-alcohols in South African fur seals (*Arctocephalus pusillus pusillus*)



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## Aim

To assess olfactory discrimination abilities of South African fur seals for 2-ketones and 1-alcohols and to assess a potential correlation between olfactory discrimination performance and differences in carbon chain length

## Conclusion

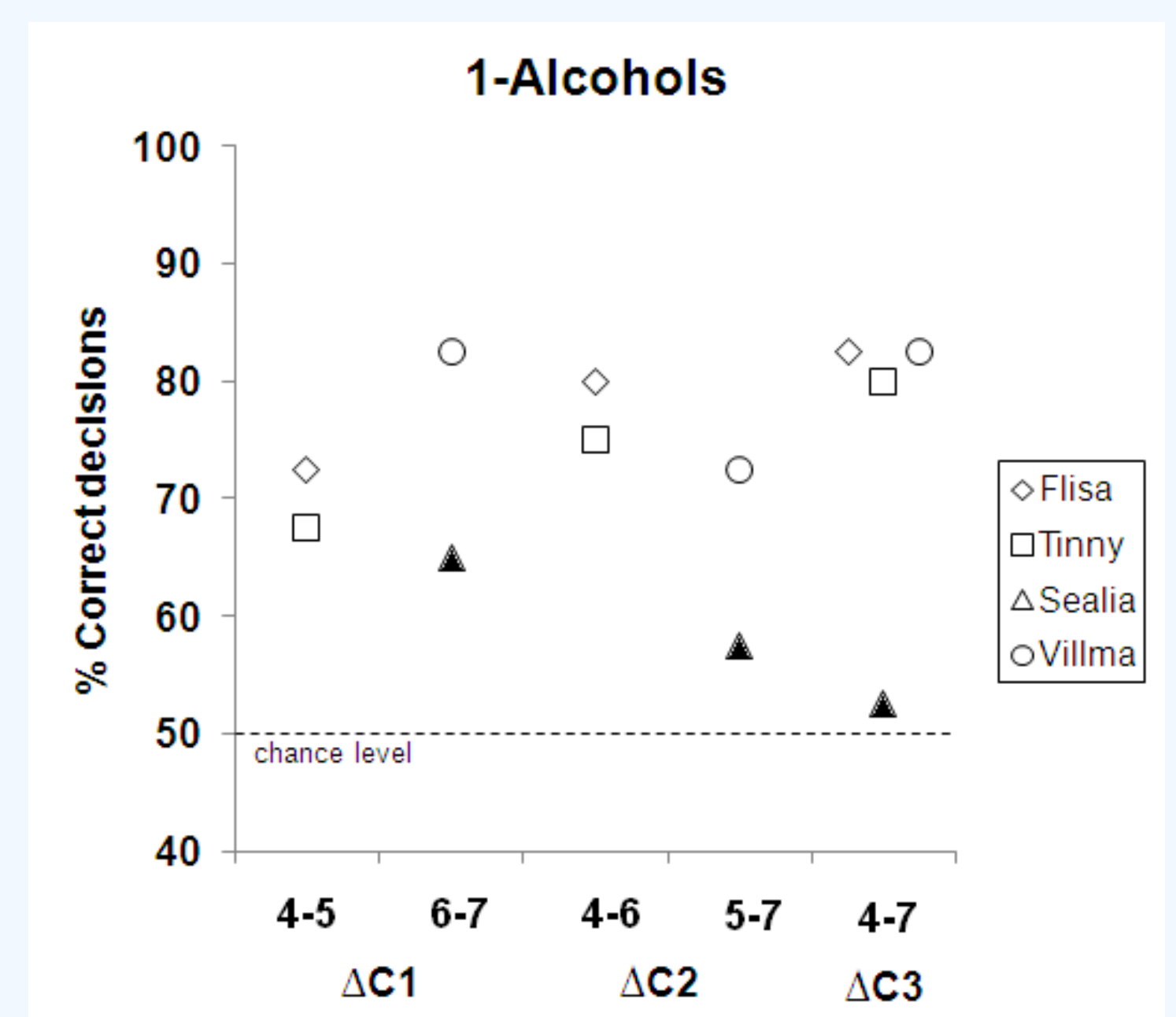
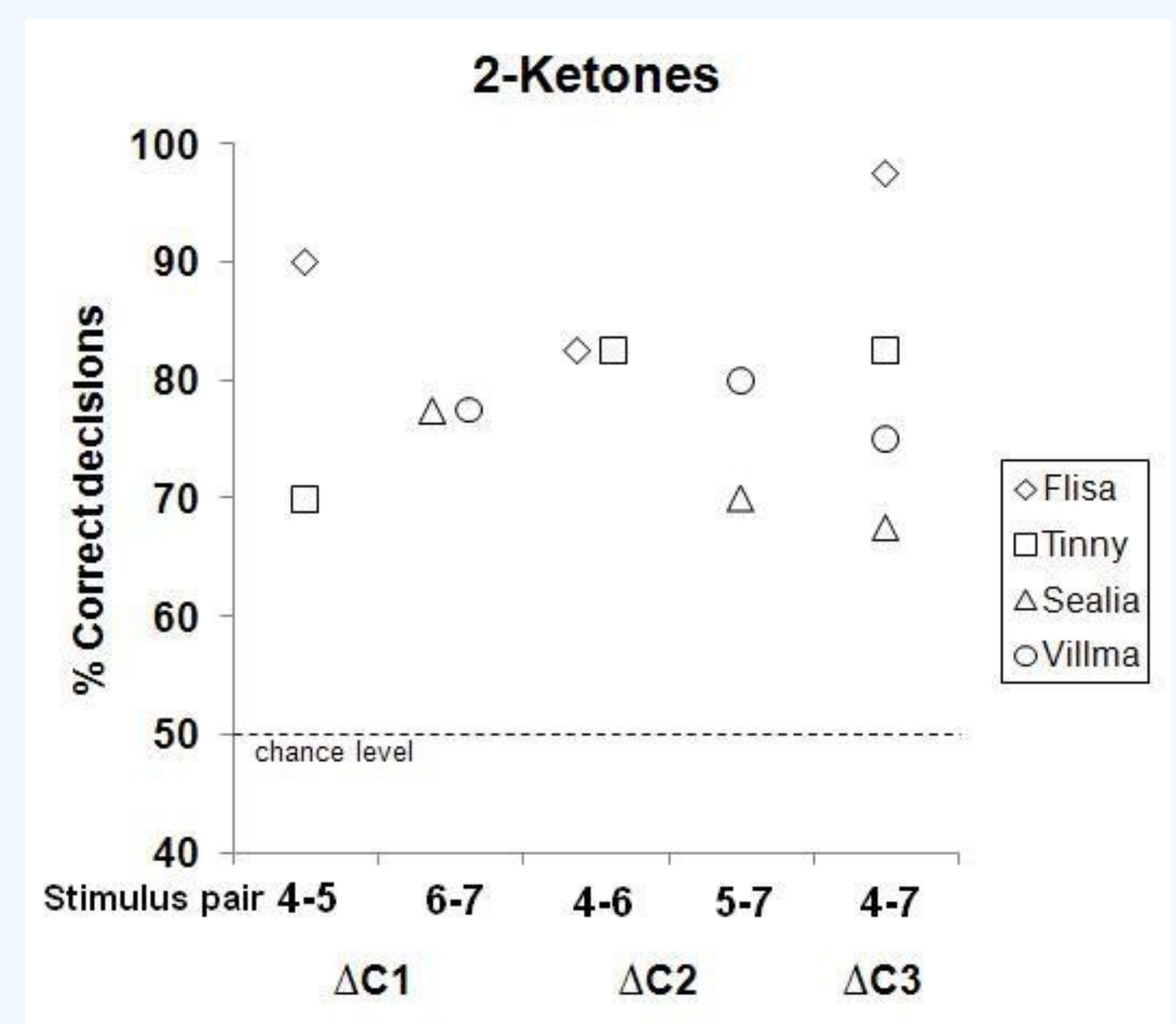
South African fur seals have a well-developed ability to discriminate between odorants belonging to the chemical classes 2-ketones and 1-alcohols



## Method

- Four animals
- Four 2-ketones and four 1-alcohols
- Two-alternative choice test

## Results



- All four seals were able to discriminate between all pairs of 2-ketones.
- Three of the four seals were able to discriminate between all pairs of 1-alcohols.
- No correlation was found between olfactory discrimination performance and carbon chain length.