

Genome analysis of hybridisation between kakī and poaka

Natalie Forsdick



@NatForsdick
#TeamKakī
#ConSERTeam

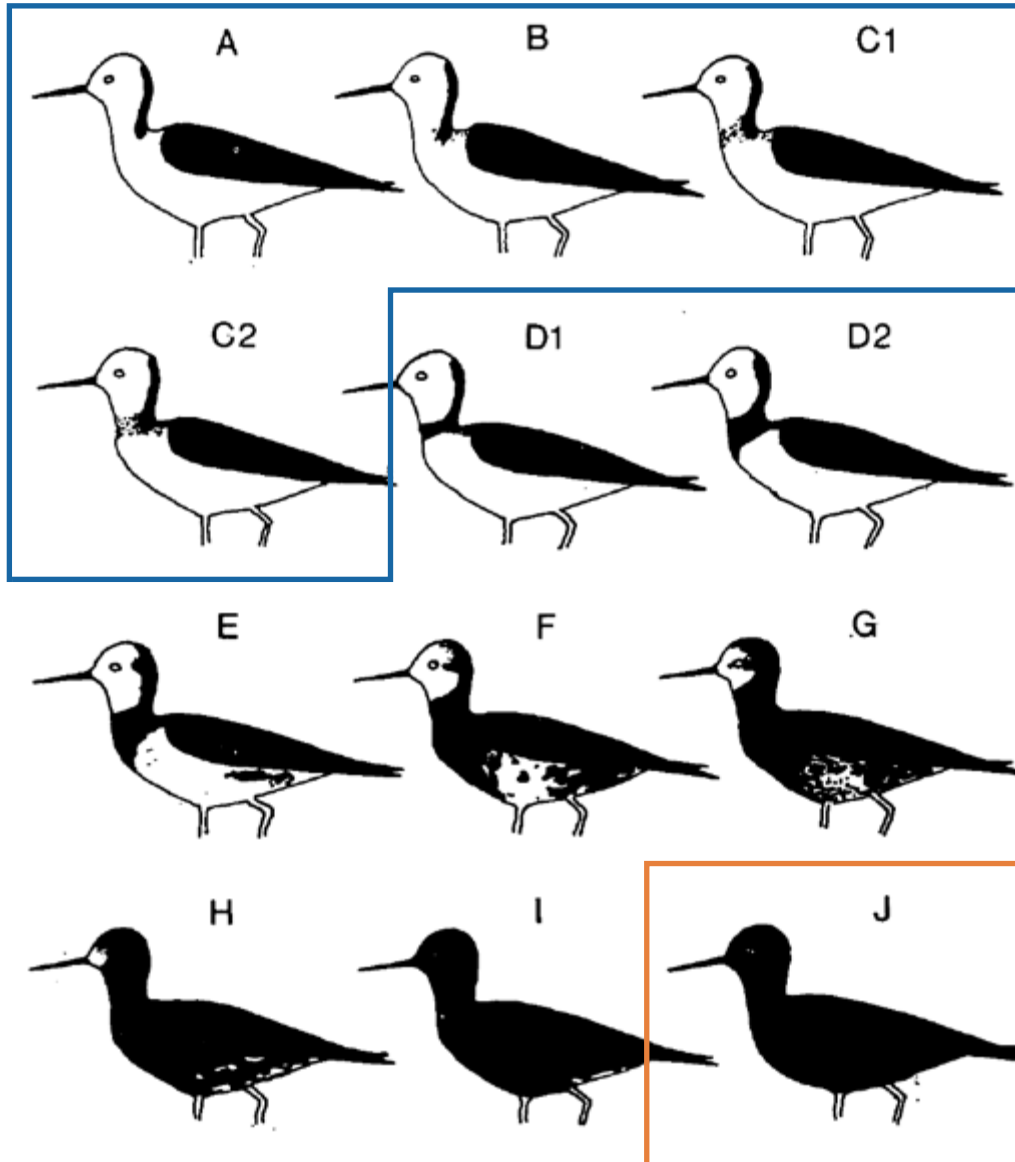


Hybridisation with poaka



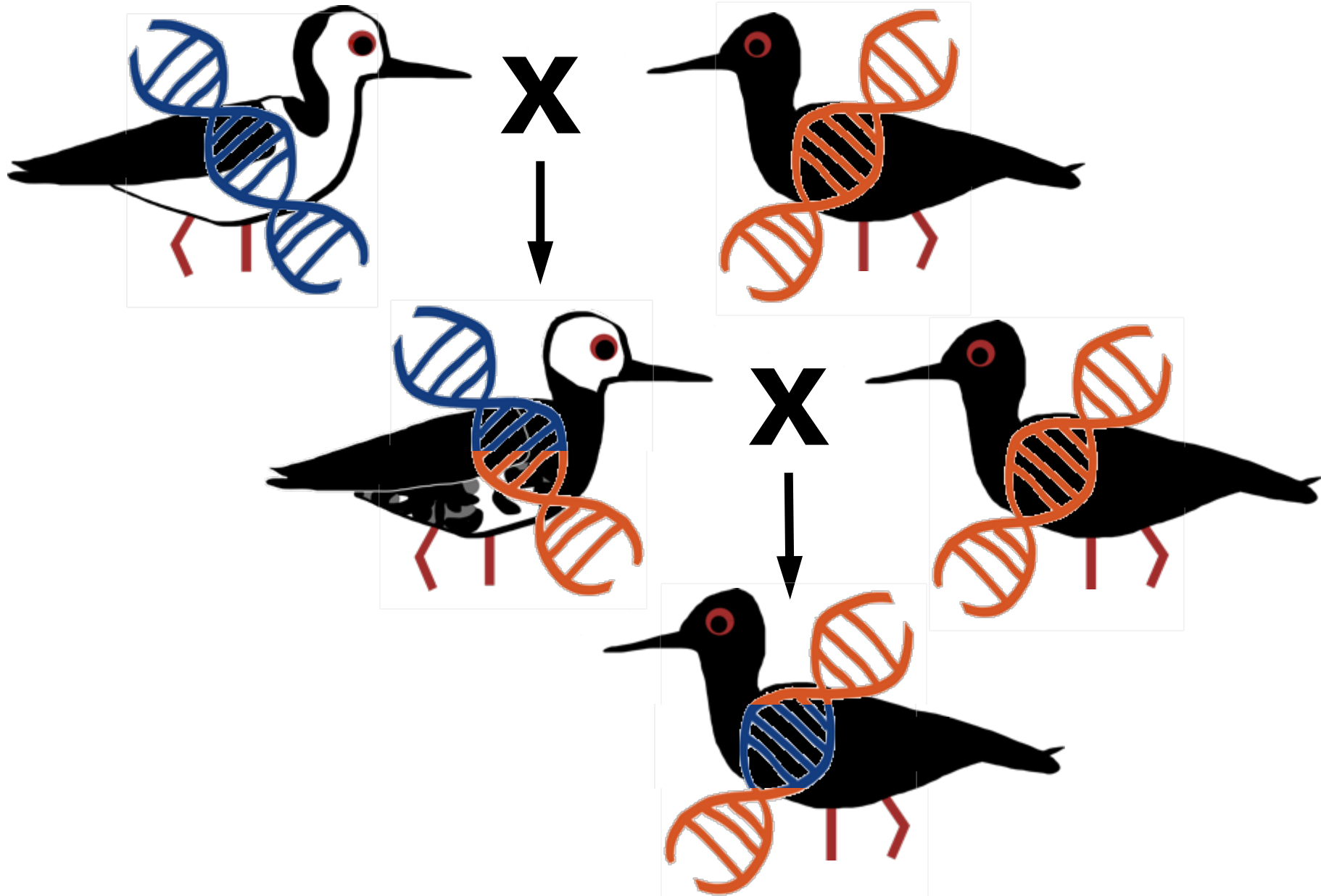
Kakī x Poaka

Poaka



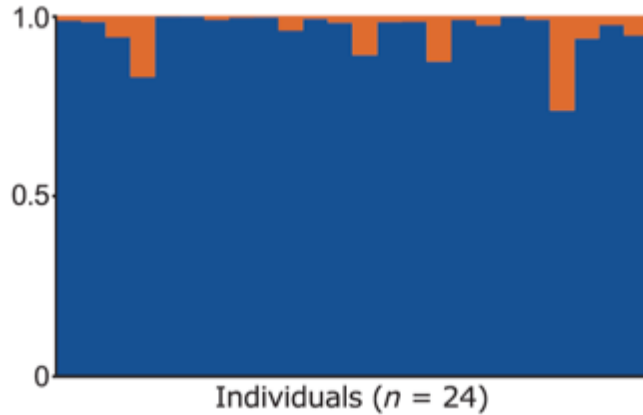
Kakī

Genetic admixture

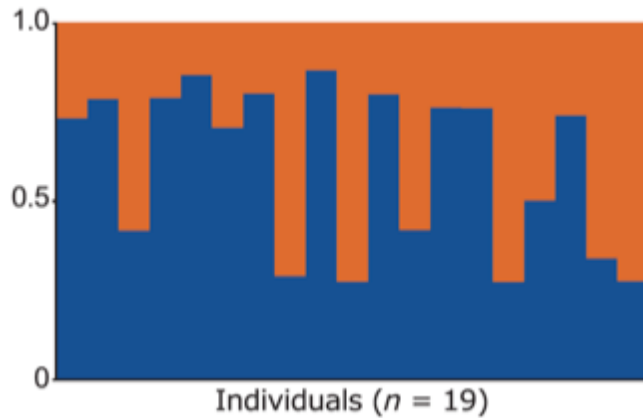
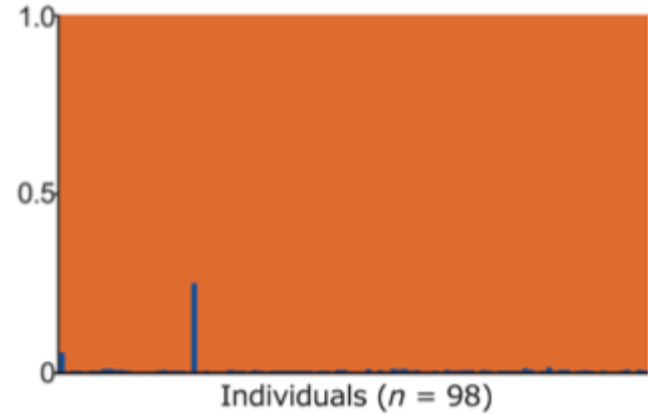


Genetic analysis

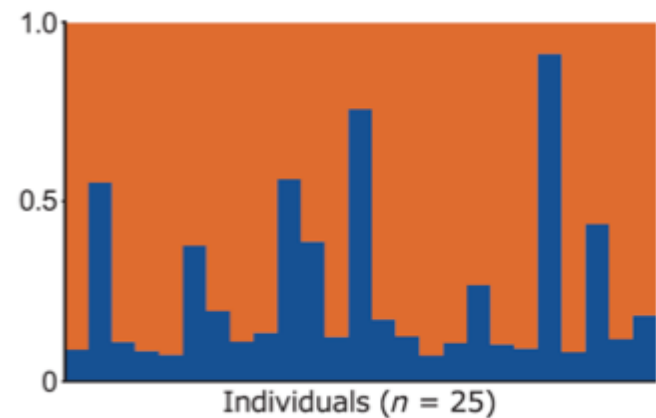
Poaka



Kakī



Light hybrids



Dark hybrids

Why use genomics?

Whole genome sequencing

Step up from using ~10 markers to 1000s

Greater power to detect differences/similarities

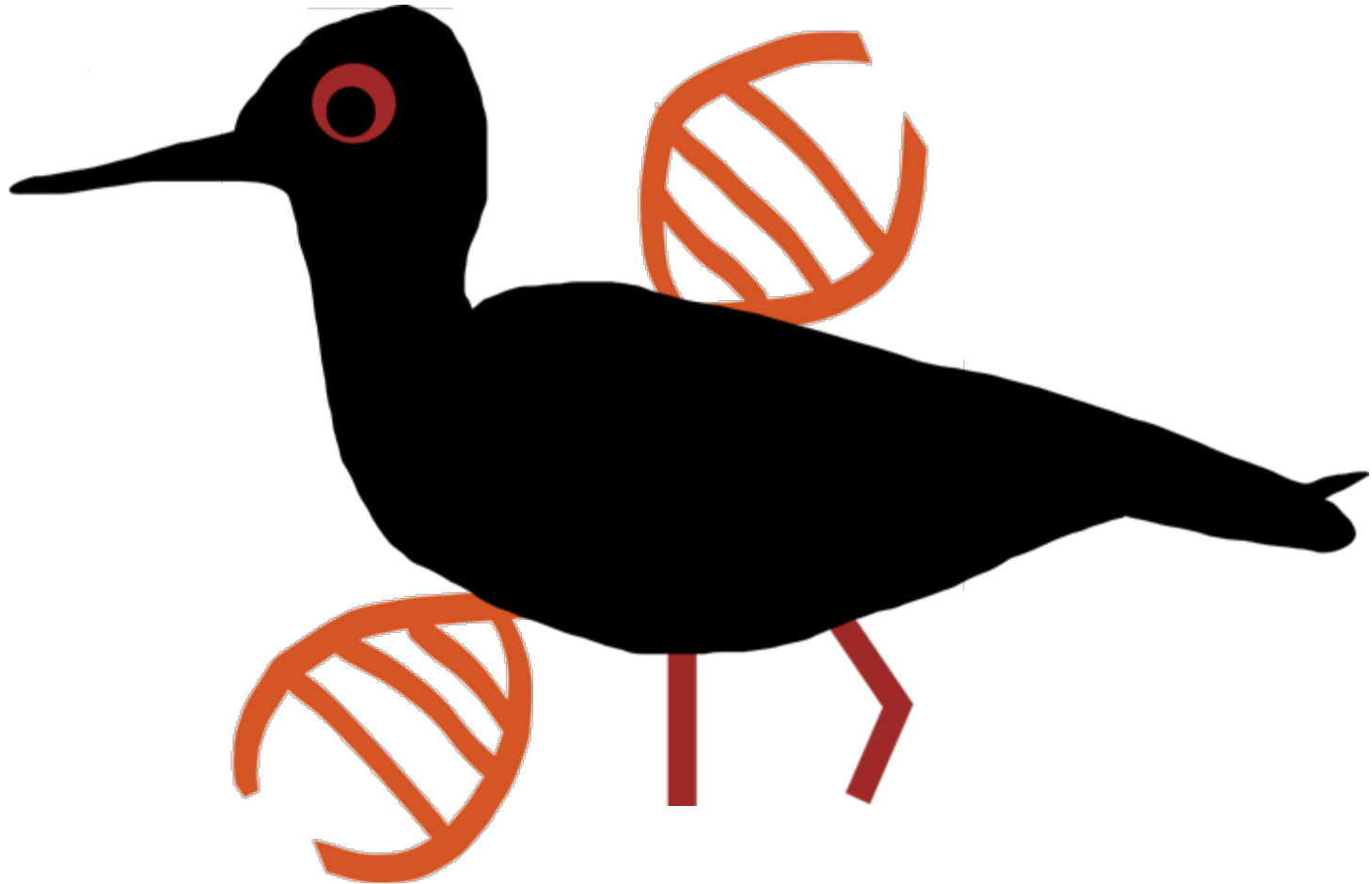
Ability to detect both neutral and adaptive variation

Comparative approach



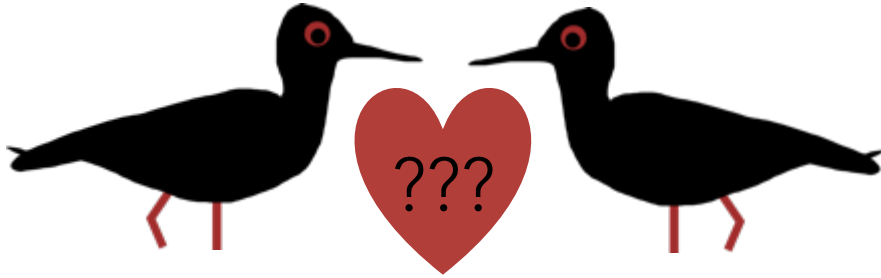
No admixture?

???

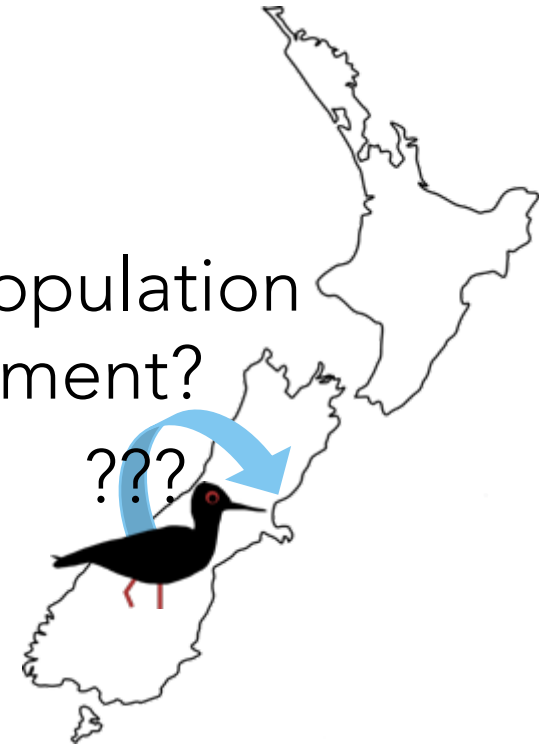


Limited admixture?

Captive breeding?



Future population establishment?




Benefits to recovery?




Acknowledgements

- Michael Knapp, Tammy Steeves, Lisa Matisoo-Smith, Graham Wallis.
- Liz Brown, Simone Cleland, Richard Maloney, Cody Thyne at the Kākī Recovery Centre, Twizel.
- Te Rūnanga o Ngāi Tahu, Te Rūnanga o Arowhenua, Te Rūnanga o Waihao, Te Rūnanga o Moeraki, Te Rūnanga o Ngāi Tūāhurīhi, Te Kōhaka o Tūhaitara Trust.
- Adelaide Zoo, Auckland Zoo, John Berry.
- Stephanie Galla, Olga Kardailsky, Denise Martini, Les McNoe.



 Stephanie Galla

 @NatForsdick
#TeamKākī #ConSERTeam

