

PG Research Day 2019 Impact Statement

Alice Denyer

*Genetics of Breed Susceptibility to Canine Diabetes Mellitus and Insulinoma: From One Extreme to the Other*

Diabetes mellitus (DM) affects approximately 1 in 300 dogs in the UK<sup>1,2</sup>, with prevalence reported to be even higher in other countries<sup>3</sup>. The mechanisms leading to hyperglycaemia are poorly understood, although a number of disease processes are thought to be involved<sup>4</sup>. Currently, the only

## References

- <sup>1</sup> Davison, L. J., Herrtage, M. E. & Catchpole, B. Study of 253 dogs in the United Kingdom with diabetes mellitus. *Vet. Rec.* 156, 467–471 (2005)
- <sup>2</sup> Mattin, M. *et al.* Paper An epidemiological study of diabetes mellitus in dogs attending first opinion practice in the UK. *Vet. Rec.* 5;174 (2014)
- <sup>3</sup> Fracassi, F. *et al.* Breed Distribution of Canine Diabetes Mellitus in Italy. *Vet. Res. Commun.* 28, 339–342 (2004)
- <sup>4</sup> Catchpole, B. *et al.* Canine diabetes mellitus: can old dogs teach us new tricks? *Diabetologia* 48, 1948–1956 (2005)
- <sup>5</sup> Cho, N. H. *et al.* IDF Diabetes Atlas: Global estimates of diabetes prevalence for 2017 and projections for 2045. *Diabetes Res. Clin. Pract.* 138, 271–281 (2018)