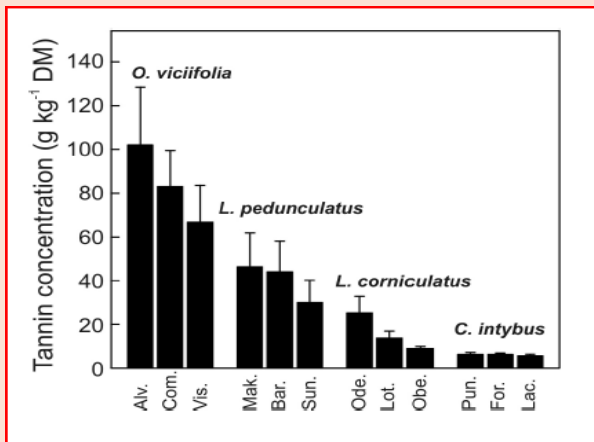


LegumePlus ESR 6: Previous studies

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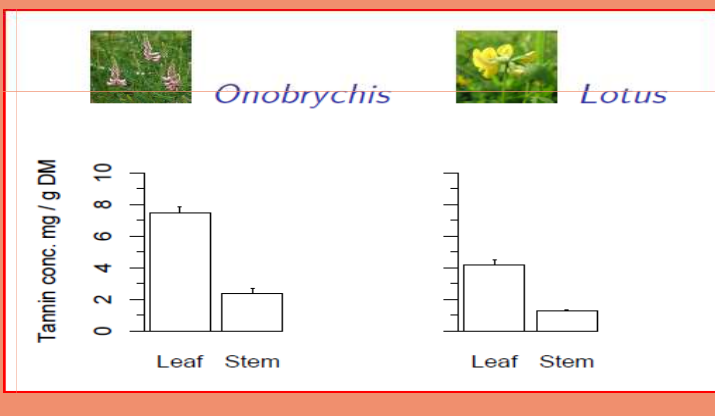


Onobrychis viciifolia (OV) has highest condensed tannin (CT) concentrations from all evaluated species

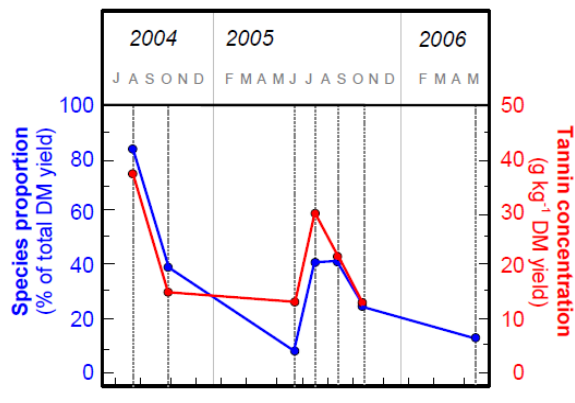
High variability among OV cultivars shows that further research on genetic variability is required

Generally, leaves exhibit higher CT contents than stems

Research on leaf-stem ratio is required for optimisation through breeding trials



Mixture O. viciifolia + F. pratensis

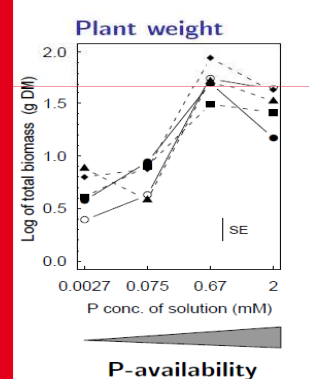
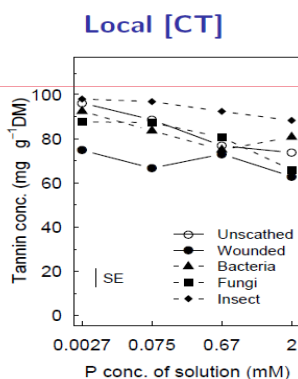


CT concentration is directly linked to OV proportion in mixture
 OV proportion decreases over time in mixture

Research on amelioration of mixtures is required to maintain high shares of OV

CT concentration decreases with increasing P concentration

Simultaneously, yield decreases substantially with decreasing P, leading to lower absolute CT concentration



Published Papers:

- Häring, D.A., Suter, D., Amrhein, N., Lüscher, A. (2007). Biomass allocation is an important determinant of the tannin concentration in growing plants. *Annals of Botany*, 99 (1): pp. 111-120.
- Häring, D.A., Scharenberg, A., Heckendorn, F., Dohme, F., Lüscher, A., Maurer, V., Suter, D., Hertzberg, H. (2007). Tanniferous forage plants: agronomic performance, palatability and efficacy against parasitic nematodes in sheep. *Renewable Agriculture and Food Systems*, 23 (1), pp. 19-29.
- Häring, D.A., Huber, M., Suter, D., Edwards, P.J., Lüscher, A. (2008). Plant Enemy-derived Elicitors Increase the Foliar Tannin Concentration of Onobrychis viciifolia Without a Trade-off to Growth. *Annals of Botany* 102(6): pp. 979–987.