

QUALIFICATIONS

PhD, University of Abertay Dundee, UK, 2006
MsC, University of Birmingham
Bsc (2:1 Hons) University of Wales, Bangor UK



PROFESSIONAL AFFILIATIONS

Society for Low Temperature Biology

ROLE AT CAWTHRON

Samantha is primarily working with Serean Adams to develop cryobiology methods for shellfish gametes and associated parameters for methodology improvement.

She also contributes to cryobiology programmes in algae, plant and avian systems.

SPECIAL INTERESTS

- Vitrification
- Oxidative stress and developmental consequences in cryobiology

SELECTED PUBLICATIONS

Johnston JW, Dussert S, **Gale SL**, Nadarajan J, Harding K, Benson EE. Optimisation of the azinobis-3-ethyl-benzothiazoline-6-sulphonic acid radical scavenging assay for physiological studies of total antioxidant activity in woody plant germplasm. *Plant Physiology and Biochemistry* 44. 2006. 193-201.

Gale SL, Benson EE, John A. 2007. The cryopreservation of embryogenic suspensor masses of *Picea sitchensis* (*Sitka spruce*) *Cryoletters* 28(4) : 225-240.

Gale SL, Benson EE, John A and Harding K. 2008. The cryopreservation of *Picea sitchensis* (*Sitka spruce*) somatic embryos. A comparison of encapsulation & vitrification-based protocols. *Cryoletters* 29(2) 135-144.

Adams SL, Tervit RH, McGowan LT, Smith JF, Roberts RD, Salinas-Flores L, **Gale SL**, Webb SC, Mullen SF, Critser JK. Towards cryopreservation of Greenshell™ mussel (*Perna canaliculus*) oocytes *Cryobiology* 58:69-74.