



Agriculture and
Agri-Food Canada

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Research Background

- Ph.D. in Plant Science (University of Alberta)
 - Hormonal interactions during pea fruit development
- Postdoctoral fellow (Plant pathology lab, University of Alberta)
 - Hormonal regulation of clubroot disease development in canola

Current research activities

Blueberries

PGRs  bud break timing
deblossoming

Nitrogen  Long-term effects of N rates/application
methods on yield

Cranberries

PGR  Canopy management

Prohexadione calcium for canopy management

- Pro-Ca inhibits GA biosynthesis
- GA stimulates cell/stem elongation
- Pro-Ca has a shorter half-life (<2 weeks in plants, 1 day in soil)
- Commercially available as Apogee/Kudos

Advantages of canopy management

- Environmental conditions in BC favours vigorous vine growth
- Reduced shoot growth,
 1. Improves energy allocation for root and reproductive growth
 2. Reduced vine growth and increased root growth may prevent field decline
 3. Improves bee access to flowers
 4. Improved light penetration can improve fruit color

Future research interests

- Evaluating options for improved root growth
- Increasing fruit set in cranberries
- Comments/suggestions,

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