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PhD

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Summary

Human activities are estimated to have accounted for approximately 20% decline in species richness on the earth, and no other ecosystems have been as significantly affected by human disturbances as the freshwater ecosystem. A key question in the freshwater ecosystem is how human disturbances are changing food webs, especially the quality of food resources for consumers. This thesis aims to determine the dominant trophic processes occurring within food webs in rivers of south east Queensland and how human disturbance alters the structure and functioning of aquatic ecosystems in this heavily populated region. It will especially focus on changes of fish food quality and their influence on fish growth and energy allocation under human disturbance.

Research Expertise

- Freshwater ecology
- Environmental change
- Food web
- Stable isotope