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What are the patterns of risk in water polo?

What effect do these impacts have on brain function?

↑ Functional connectivity
↓ Betweenness centrality
↓ Neural Complexity
↓ Inhibitory Control

↑ FC w/ Right Hypothalamus
↓ ‘Proactive’ Cognitive control

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Ongoing Collaborations & Future Directions

**Associations Between CR Fitness and Brain-Heart Interactions**

**Biomarkers of Brain Injury due to Repetitive Head Impacts**

**Re-construction and Modeling Head Impacts in Rugby**

- **UCI Human Connectome Project**
- **UCI Institute for Interdisciplinary Salivary Bioscience Research**
- **UCI Beckman Laser Institute & Medical Clinic**

Dunn, Monroe, et al., 2019

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