



**Intra-disciplinary – working with a single discipline**

Intra-disciplinary refers to research of a single discipline, without cooperation and input from other disciplines. For example in Green et al. (2019), the researchers use Genetics to study the population structure of silvertip sharks



**Cross-disciplinary – viewing one discipline from the perspective of another**

Cross-disciplinary research is about working with other disciplines and includes the following approaches: multi-, and interdisciplinary



**Multi-disciplinary – people from different disciplines working together, each drawing on their disciplinary knowledge**

Multi-disciplinary research describes a collaboration of people from different disciplines, but which does not draw integrated analysis and conclusions. Everyone contributes to their specific area of expertise. For example, DePiper et al. (2017), described a multidisciplinary approach where physical oceanographers, biologists, economists, and anthropologists worked together on an Integrated Ecosystem Assessment. In this approach, each of the scientists presented their research and data that could be used to support the development of an Integrated Ecosystem Assessment (DePiper et al. 2017).



**Inter-disciplinary – integrating knowledge and methods from different disciplines, using a genuine synthesis of approaches**

Inter-disciplinary research refers to research where the aspects of different disciplines are integrated into one holistic approach. For successful interdisciplinary research, institutional structures and practices that support interdisciplinarity need to be in place. For example, Cummings et al. (2019) integrated social research with historical and natural scientific information to study the relationship between fur seals and fisheries in Tasmania.



**Trans-disciplinary - creating a unity of intellectual frameworks beyond the disciplinary perspectives, often including stakeholders, (i.e. a person or group that has an investment, share an interest in the outcome of the research)**

For example Bennich et al. (2020) put into practice a transdisciplinary research methodology in Messinia, Greece to study the sustainability concerns of tourism, agriculture and environmental management in the area using a team of early career researchers from different disciplines and key stakeholders of the community.

**References:**

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