ISOS Course

Systematic Reviews with Meta-Analysis

Dr. Tamar Guy-Haim and Francisco Barboza, GEOMAR

21-23 February 2018 | 09:00 – 17:00 h

Synthesis is a driving force in science. Among data syntheses, systematic reviews in combination with meta-analysis produce a very high quality of evidence. Systematic reviews provide an overview of the literature landscape for a topic, and meta-analyses examine the strength of evidence integrated across different studies.

By the end of this three-day hands-on course, you will be able to design and conduct a systematic review and a meta-analysis as high-impact research tools.

You will learn how to

- Define inclusion/exclusion criteria
- Search and extract data from literature databases using specific tools
- Assess study quality, types of data and effect sizes
- Create forest plots
- Do statistical tests like Kappa-Test and Fixed effect vs Random effect models
- Conduct Bayesian Meta-Analysis
- Assess publication bias via funnel plots
- Avoid common pitfalls: Pros and cons of meta-analysis

Software used: R

Please note: Knowledge of R is an advantage, but NOT a prerequisite.

Venue: Leibnizstraße 1, room 105a
ISOS candidates have priority in our courses.
Child care can be provided if we have two weeks advance notice.

Please register online at www.futureocean.org/isos