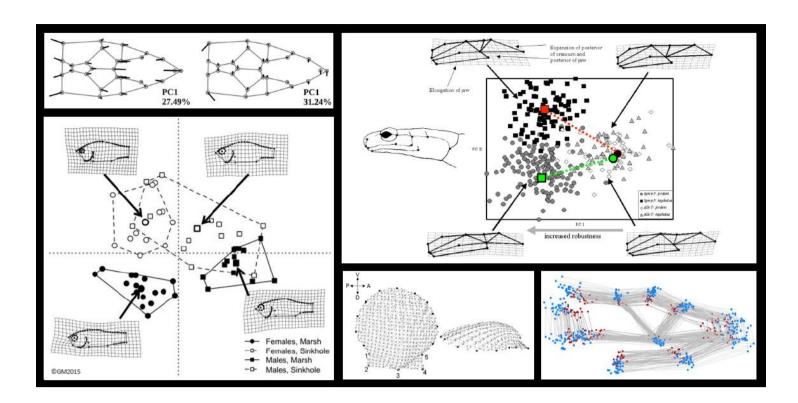
INTERNATIONAL WORKSHOP

AN INTRODUCTION TO GEOMETRIC MORPHOMETRICS USING R

October 5-9, 2015 | CIBIO-InBIO, Vairão, Portugal



DETAILED SCHEDULE

The course will include both theoretical and practical sessions. During the theoretical session we will provide a comprehensive introduction to the methods of landmark-based geometric morphometrics, which aims at providing the participants with a solid theoretical background for understanding the procedures used in shape data analysis. Practical sessions will include worked examples, giving the participants the opportunity to gain practical experience in the treatment of shape data using the R package *geomorph* and other statistical routines in R. We will provide example datasets, but we encourage the participants to bring their own data for treatment.

Day 1: October 5, 2015 | Primary data

9:00-9:30 Introductions

9:30-10:30 Morphometrics: An Introduction

10:30-11:15 Coffee Break 11:15-12:30 Data acquisition

12:30-14:00 Lunch

14:00-15:30 Review of matrix algebra and multivariate statistics

15:30-16:00 Coffee Break

16:00-18:00 LAB

Day 2: October 6, 2015 | Generating shape variables

9:00-10:30 Superimposition 10:30-11:00 Coffee Break

11:00-12:30 Shape spaces and shape variables

12:30-14:00 Lunch

14:00-15:30 GPA with semilandmarks

15:30-16:00 Coffee Break

16:00-18:00 LAB

Day 3: October 7, 2015 | Analysis of Shape Variation I

9:00-10:30 Shape covariation 10:30-11:00 Coffee Break 11:00-12:30 Allometry 12:30-14:00 Lunch

14:00-15:00 Integration and modularity

15:00-18:00 LAB

16:00-16:30 Coffee Break

Day 4: October 8, 2015 | Analysis of Shape Variation II

9:00-13:00 Group differences 10:30-11:00 Coffee Break

11:00-12:00 Phenotypic trajectory analysis

11:00-12:00 Phenotypic t 12:00-13:30 Lunch 13:30-14:30 Asymmetry 14:30-15:30 Missing data 15:30-16:00 Coffee Break

16:00-18:00 LAB

Day 5: October 9, 2015 | Analysis of Shape Variation III

9:00-10:30 Phylogenetic shape variation

10:30-11:00 Coffee Break 11:00-12:30 Disparity 12:30-14:00 Lunch

14:00-18:00 STUDENT PRESENTATIONS