

001-2-0153 Writing a scientific paper (2 credits mandatory course)

Lectures (hrs/week)	Exercise (hrs/week)	Laboratory	Field Trip
2			

Aims:

Clearly and convincingly presenting the results of your research in peer-reviewed journals, grant applications, presentations, and progress reports, is an essential activity within the scientific endeavor. This is so, whether addressed to specialists or the “general public”. No-one is born with the ability to carry this off. This course will cover comprehensively the skills and strategies necessary in writing high impact scientific articles. It will start with the rationale for writing a paper and the planning process involved, followed by detailed instruction on all the elements in an article. The student’s skills will be developed in a workshop-type format where skills will be practiced and evaluated. Students at any level (MSc/Phd/Postdoc) are welcome.

Course contents:

BLOCK A: Overview (2 lectures)

- #1 Introduction to article writing I – rationale, structure
- #2 Introduction to article writing II – planning, outline, writing working title

BLOCK B: Mechanics (4 lectures)

- #3 Figures and Tables
- #4 English Grammar/English Diction
- #5 Writing a sentence/writing paragraph
- #6 Bibliography

BLOC C: Article - Written Content (5 lectures)

- #7 Introduction
- #8 Materials and methods
- #9 Results and discussion I
- #10 Results and discussion II-conclusions
- #11 The abstract

BLOCK D: Putting it all together

- #12 Reviewing scientific article
- #13 Preparing an effective powerpoint presentation/conference poster (if time allows)

Grade and Requirements:

This course is in the form of a series of workshops in which the students practice both inside and outside class. Due to the workshop nature of the course, participation in the classes is mandatory. The three mandatory assignments prepared outside the class itself will be: a) Preparing an abstract for an article; b) Writing an introduction including citations and bibliography; c) preparing a graph d) Reviewing an article assigned by your thesis advisor. It is recommended that the student base himself/herself on his/her own research project/s at least two out-of-class assignments.

Final work will be to critique a manuscript or published article based on the guidelines/principles learned in the course.

Literature: References will be made accessible on Moodle site.

Lecturers: Dr. Christopher Arnusch or Prof. Jack Gilron (course number 001-2-0153)
Dr. Shai Arnin (course number 001-2-7006)