# Critical evaluation of a paper/report

Please pay attention to the following questions when reading (or writing) a scientific paper/report:

## Introduction

- 1. Did the author(s) indicate why the study was undertaken?
- 2. Was the background information provided adequate to understand the aims of the study?

### Methods

- 1. Has the source of the data been clearly given?
- 2. Were the methods described in sufficient detail for others to repeat or extend the study?
- 3. If standard methods were used, were adequate references given?
- 4. Have the author(s) indicated the reasons why particular procedures were used?
- 5. Have the author(s) indicated clearly the potential problems with the methods used?
- 6. Have the author(s) indicated the limitations of the methods used?
- 7. (Have the sources of drugs been given?)
- 8. Have the author(s) specified the statistical procedures used?
- 9. Are the statistical methods appropriate?

#### Results

- 1. Were the experiments/calculations done appropriate with respect to objectives of the study?
- 2. Do the results obtained make sense?
- 3. Do the legends to the figures describe clearly the data obtained?
- 4. Are the data presented in tabular form clear?
- 5. Has the appropriate statistical analysis been performed on these data?

## **Discussion**

- 1. Were the objectives of the study met?
- 2. Do the author(s) discuss their results in relation to available information?
- 3. Do the author(s) indulge in needless specualtion?
- 4. If the objectives were not met, do the author(s) have any explanation?

# References

- 1. Do the author(s) cite appropriate papers for comments made?
- 2. (Do the author(s) cite their own publications needelessly?)

# Abstract

- 1. Is the abstract intelligible?
- 2. Does the abstract accurately describe the objectives and results obtained?
- 3. Does the abstract include data not presented in the paper?
- 4. Does the abstract include material that cannot be substantiated?