



## Welcome Address

At conferences, the Chair takes over the words of welcome and generally introduces the topic of the conference day. The Chair is basically the chairperson of the conference.

### TASK

As Chair, prepare a short introduction to epigenetics:

- Delineate the term genetics.
- Describe how epigenetic changes in the genome are manifested.
- Use one of the following examples to illustrate how epigenetic differences can make an impact:
  - o Bees: worker and queen
  - o Identical twins

### BONUS

Lead a discussion on how the judge should decide on Bob's application.



## Introduction

Important speakers at conferences are introduced. Their person and research are briefly discussed.

### TASK

Prepare two introductions for:

- Conrad Hal Waddington
- Emmanuelle Charpentier

**OBJECTIVE** The best-known research results of the scientists should be summarized in your introduction.

### TIP

Use the search terms on the Internet search material sheets to find out more about Waddington and Charpentier's research.





## PowerPoint Slide

At conferences, scientists often present their results using PowerPoint slides. These present the most important facts and figures, for example using diagrams.

**TASK** Prepare an informative PowerPoint slide using bullet points. To do this, you will be given a newspaper article or a diagram.

### PowerPoint topics:

PowerPoint slide A: Current status of cloning

PowerPoint slide B: The CRISPR/Cas9 method

**TIP** Read more on the topics:

Therapeutic cloning:

<https://www.eurostemcell.org/what-cloning-and-what-does-it-have-do-stem-cell-research>

Targeted genetic modification of iPS cells:

<https://www.eurostemcell.org/crispr-changing-gene-editing-landscape>

<https://zellux.net> (in German)

