

## **NOTICE TO CENTRES**

FAO: Head of Science

Date: September 2013

Subject: Additional Support Materials for GCE Biology H021/H421

### **F214 – COMMUNICATION, HOMEOSTASIS AND ENERGY**

Module 4: Respiration

Oxidative phosphorylation and chemiosmotic theory are learning outcomes of GCE Biology, Unit F214, Module 4.

Chemiosmotic theory, as presented in the examination paper for F214, January 2013, and the OCR endorsed A2 Heinemann textbook, has been the subject of debate by a group of Academics working in the area of bioenergetics. This group of scientists has stated that the outer mitochondrial membrane does not play a role in oxidative phosphorylation and, hence, in ATP synthesis.

An account of chemiosmotic theory has kindly been produced by this group, to assist with the teaching and learning of this important topic. These support documents are now available on the OCR website under the GCE Biology support materials:

[www.ocr.org.uk/qualifications/as-a-level-gce-biology-h021-h421/](http://www.ocr.org.uk/qualifications/as-a-level-gce-biology-h021-h421/)

Centres should be aware that the Principal Examiner for Unit F214 will take this new information into account in future series.

If you have any queries about this notice, please call our Customer Contact Centre on 01223 553998.