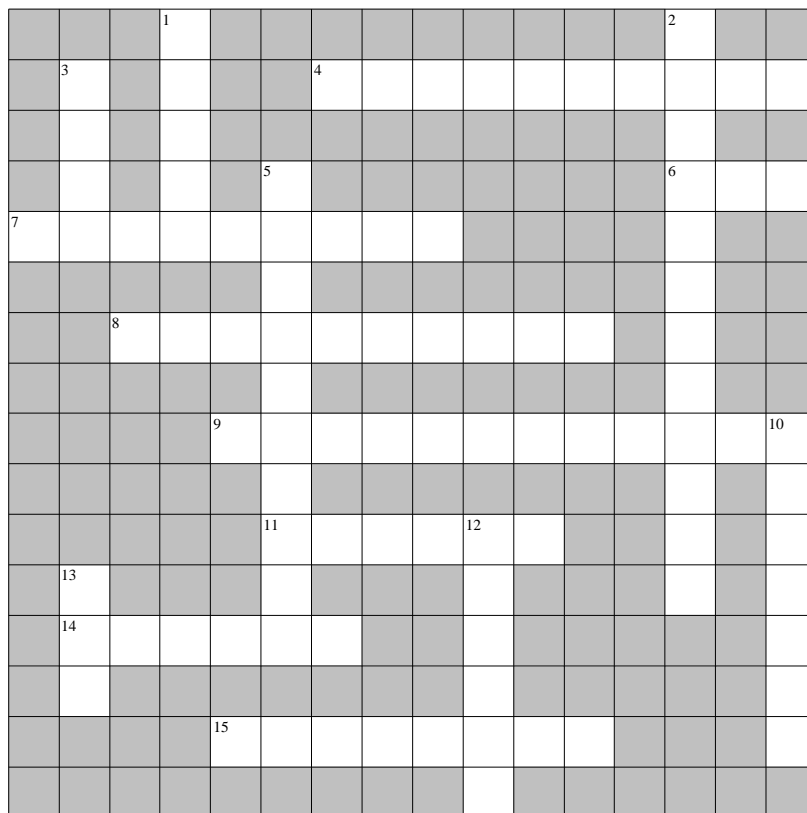


## CROSSWORD

### Electron Transport Chain and Oxidative Phosphorylation



#### Across

4. Electron carrier that is mobile in membrane (10)
6. Chemical formula for one of the electron carriers found early in the electron transport chain (3)
7. Approximate number of molecules of ATP synthesized by oxidative phosphorylation from one molecule of glucose (9)
8. Yellow coloured vitamin from which forms part of FAD and FMN molecules (10)
9. The name of the gradient formed by accumulation of hydrogen ions in intermembrane space of mitochondrion (12)
11. Final electron acceptor in the electron transport chain (6)
14. Metal ion found associated with cytochrome a/a<sub>3</sub> (6)
15. Energy released by electrons is used to pump these ions into intermembrane space (8)

#### Down

1. Product of the final reaction in the electron transport chain (5)
2. Hydrogen ions moving through ATP synthase change the ---- of the protein (12)
3. Abbreviation for molecule that donates electrons to electron transport chain (4)
5. Iron containing electron carrier molecules in electron transport chain (9)
10. Poison that inhibits complex IV (7)
12. This is released as electrons move down along electron transport chain (6)
13. Order in which the different cytochromes (a,b and c) appear in the electron transport chain (1,1,1)

**You can purchase the full 50 chapters of**

**GET TO GRIPS WITH **BIOCHEMISTRY****

**BOOK ONE**

**ENERGY METABOLISM, CARBOHYDRATES  
AND LIPIDS**

**AT**

**<http://get2grips.50webs.com>**

email: pmhbyrne@gmail.com

**Copyright ©2008 Paul M. Byrne.**

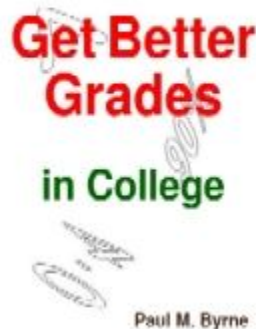
All rights reserved. No part of this book may be reprinted or reproduced or utilized in any form or by any electronic, mechanical, or other means, now known or hereafter invented, including photocopying or recording, or in any information storage or retrieval system, without permission in writing from the author. All inquiries should be addressed to the author at pmhbyrne@gmail.com.

---

by the same author

# GET BETTER GRADES

## IN COLLEGE



Does it feel like you don't get the grades you should get for the work you have done and the amount you know ?

Would it be possible for you to get more marks, not just by trying to learn more but by making some simple changes to the way you present what you do know in your coursework and exam scripts?

<http://betterbgrades.50webs.com>

There are things other than a student's knowledge that examiners value when assigning grades.

This ebook has 33 chapters of suggestions on **how to improve your grades** with thirty three short chapters, each covering specific and practical techniques that will help you **GET BETTER GRADES**.

---

### Personalised Essay Correction

You will also find details on the website of how to have an essay you have written reviewed by the author and get further advice on incorporating some of the techniques in this book into your own work.