**Module 1: Gene-environmental interactions: genetic, metabolic and nutritional disorders of gut and liver**

**WEEK 1 – Hammersmith Campus**

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|  | **Monday 8 October** | **Tuesday 9 October** | **Wednesday 10 October** | **Thursday 11 October** | **Friday 12 October** |
| **09.00-10.00** |  |  |  |  | How to make a critical appraisal of a paper  **Julian Walters**  **Sub basement Seminar Room 3 - CWB** |
| **10.00-11.00** | Introduction to module  Review of nutrition in health & disease  **Julian Walters**  **WEC - Seminar Room 3** | Basics of coeliac disease  **Julian Walters**  **Sub-basement Seminar Room 8 - CWB** | Tutorial for BMS students **(GI offices, 3rd floor, Hamm House)**  or  Course work | Gene-environmental interactions in alcoholic liver disease  **Shahid Khan**  **WEC - Seminar Room 5** | Genetics of Gallstone disease  **Abigail Zabron**  **Sub basement Seminar Room 3 - CWB** |
| **11.00-11.30** | COFFEE | COFFEE |  | COFFEE | COFFEE |
| **11.30-12.30** | Haemochromatosis  **Mark Thursz**  **WEC - Seminar Room 3** | Genetics of Coeliac Disease  **Julian Walters**  **Sub-basement Seminar Room 8 - CWB** | Genetics of inflammatory bowel disease  **Horace Williams**  **WEC - Seminar Room 5** | Metabolism of xenobiotics  **Alan Boobis**  **Sub basement Seminar Room 3 - CWB** |
| **12.30-13.30** | LUNCH | LUNCH | Hammersmith Staff Round | LUNCH | LUNCH |
| **13.30-16.00** | Workshop on Genetic Mechanisms  **and**  Visit to Genome Centre  **Mick Jones**  **WEC - Seminar Room 5** | **13.30-14.30**  Genetics of Colorectal cancers  **Huw Thomas**  **WEC - Lecture Theatre 3** | Sports | Course work | **14.00-15.00**  Science Ethics  **Andrew George**  **CWB - Sub-basement seminar room 1&2** |
| **16.00-17.00** | Private Study | Private Study | Private Study |

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|  | **Monday 15 October**  **Hammersmith Campus** | **Tuesday 16 October**  **Hammersmith Campus** | **Wednesday 17 October**  **Hammersmith Campus** | **Thursday 18 October**  **Hammersmith Campus** | **Friday 19 October**  **Hammersmith Campus** |
| **09.00-10.00** | Private study | \* Practical  Sugar absorption & breath tests  **Julian Walters**  **CWB – SBSR7** | Feedback sessions for Introductory coursework  **Julian Walters**  **(GI offices, 3rd floor, Hamm House)** | Private study | Critical review presentations  **(Julian Walters)**  **(Horace Williams)**  **WEC - Seminar Room 3** |
| **10.00-11.00** |  | Principles of nutritional support  **James LeCouteur**  **WEC - Lecture Theatre 3** |
| **11.00-11.30** | COFFEE | COFFEE | COFFEE |
| **11.30-12.30** |  | Irritable bowel syndrome  **Julian Walters**  **CWB – SBSR7** | Course work |
| **12.30-13.30** | LUNCH | LUNCH | Hammersmith Staff Round | LUNCH | LUNCH |
| **13.30-17.00** | 13.30-14.30  Gene / environnent interactions in IBD  **Matt Shale**  **WEC - Seminar Room 3** | 13.30-14.30  Coeliac disease: a patient's experience  (Julian Walters)  **CWB – SBSR7** | Sports | Course work |  |
| 14.30-15.30  Intestinal absorption: normal & abnormal  **Julian Walters**  **WEC - Seminar Room 3** |

**WEEK 2 – Hammersmith Campus**

**\* Practical**

**WEEK 3**

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|  | **Monday 22 October**  **St Mary’s Campus** | **Tuesday 23 October**  **Hammersmith Hospital**  **Dietetic Department** | **Wednesday 24 October** | **Thursday 25 October**  **St Mary’s Campus** | **Friday 26 October**  **Hammersmith Campus** |
| **09.00-10.00** | Private study | Private study | **Commemoration Day** |  | Genetics of cystic fibrosis  **David Westaby**  **Sub basement Seminar Room 1 & 2** |
| **10.00-11.00** | Genetics of Steatohepatitis  **Nowlan Selvapatt**  **SMMS – Clinical Lecture Theatre** | \* Assessment of nutritional status Part 1  James LeCouteur  **+ Dietetic Dept** | Wilson's disease  **Ashley Brown**  **SMMS-Clinical Lecture Theatre** | Pharmacogenetics  **Martin Wilkins**  **WEC - Lecture Theatre 1** |
| **11.00-11.30** | COFFEE |  | COFFEE | COFFEE |
| **11.30-12.30** | GI endocrine responses to feeding  **Alexander Miras**  **SMMS – Clinical Lecture Theatre** | \* Assessment of nutritional status Part 2  **+ Dietetic Dept** | Effects of the gastrointestinal microbiome on metabolism  **Lucy Hicks**  **SMMS-Clinical Lecture Theatre** |  |
| **12.30-13.30** | LUNCH | LUNCH | Hammersmith Staff Round | LUNCH | LUNCH |
| **13.30-16.00** |  | \* Assessment of nutritional status Part 3  **+ Dietetic Dept** | Sports | **13.30-15.30**  Bioinformatics practical\*  **Marco Purbhoo**  **Hynds Lab** | **Submit In Course Assessment - Critical Appraisal** |
| **16.00-17.00** | Private Study | Private Study |

**\* Practical**

**WEEK 4**

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|  | **Monday 29 October**  **Hammersmith Campus** | **Tuesday 30 October**  **Hammersmith Campus** | **Wednesday 31 October**  **Hammersmith Campus** | **Thursday 1 November**  **Hammersmith Campus** | **Friday 2 November**  **Hammersmith Campus** |
| **10.00-11.00** | Nutrition in ageing  **Mary Hickson**  **WEC - Seminar Room 2** | Genetics of obesity  **Andrew Walley**  **Sub-basement Seminar Room 8 - CWB** | Tutorials for BMS students  **(GI offices, 3rd floor, Hamm House)**  or  Course work | Genetics of chronic pancreatitis  **Panagiotis Vlavianos**  **Hammersmith Campus**  **Sub-basement Seminar Room 1&2** | † Vitamin deficiency states  **Julian Walters**  **Hammersmith Campus**  **Sub-basement Seminar Room 6** |
| **11.00-11.30** | COFFEE | COFFEE | COFFEE |
| **11.30-12.30** |  | Maternal / fetal programming  **Anne Dornhorst**  **Sub-basement Seminar Room 8 - CWB** | Genetics of pancreatic cancer  **Lakshmana Ayaru** |
| **12.30-13.30** | LUNCH | LUNCH | Hammersmith Staff Round | LUNCH | LUNCH |
| **13.30-16.00** | **13.30-14.30**  Calcium, vitamin D & osteoporosis  **Julian Walters**  **WEC - Seminar Room 2** | **13.30-14.30**  Diet in pregnancy & lactation  **Caroline King**  **WEC - Seminar Room 3** | Sports | MRI background physics  (from Module 2)  **Donald McRobbie**  **Hammersmith Campus**  **Sub-basement Seminar Room 1&2** | **13.30-16.00**  † Trace elements  **Julian Walters**  **Hammersmith Campus**  **Sub-basement Seminar Room 6** |

**WEEK 5 – Hammersmith Campus**

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|  | **Monday 5 November**  **Hammersmith Campus** | **Tuesday 6 November**  **St Marks Hospital**  **Lecture Room F – level 3** | **Wednesday 7 November**  **Hammersmith Campus** | **Thursday 8 November**  **Hammersmith Campus** | **Friday 9 November** |
| **09.00-12.30** | **09.30-10.30**  Carbohydrates  **Gary Frost**  **WEC - Seminar Room 4** | Private study |  | † Food safety  **(Julian Walters)**  **Sub basement Seminar Room 1&2** | Course work |
| **10.30-11.30**  Diet & metabolic syndrome  **Anne Dornhorst**  **WEC - Seminar Room 4** | **10.00**  Short bowel syndrome  **Simon Gabe** |
| **12.00-13.00**  Central mechanisms of appetite control  **Jeannie Todd**  **CWB SBSR 1&2** | Parenteral nutrition  **Simon Gabe** |
| Applied GI Anatomy – Endoscopy  **Dr Matharoo & Dr Patel** |
|  | LUNCH | LUNCH | 12.30-13.30  Hammersmith Staff Round | LUNCH | **Submit In Course Assessment - Essay** |
| **13.30-17.00** | **14.00 start**  † Starvation, famine & refeeding  **(Julian Walters)**  **WEC - Seminar Room 4** | Pathogenesis of IBD  **David Bernardo** | Sports | † Food selection and fads  **(Julian Walters)**  **Sub basement Seminar Room 1&2** |
| Translational aspects of GI physiology  **Naila Arebi** |

† Seminar