**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 moduleReview 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)**orCourse 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 | \* PracticalSugar 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** | 13.30-14.30Gene / environnent interactions in IBD**Matt Shale****WEC - Seminar Room 3** | 13.30-14.30Coeliac disease: a patient's experience(Julian Walters)**CWB – SBSR7** | Sports | Course work  |  |
| 14.30-15.30Intestinal 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 1James 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)**orCourse 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