

## Faculty of Medicine

School of Medical Sciences

PATH 3205

# Molecular Basis of Inflammation and Infection MBII (6 UOC)

SEMESTER I, 2012

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## **Course objectives**

PATH3205 Molecular Basis of Inflammation and Infection builds on fundamental principles of human disease taught in PATH2201 Processes in Disease. This is achieved in PATH3205 by focusing on the underlying molecular basis or 'molecular mechanisms' of the disease process in humans. Core topics in Pathology are presented as themed '*Modules*' and the '*Research Lecture and Laboratory Series*' will use examples and 'state-of-the-art' research techniques that address these molecular mechanisms primarily in the context of Inflammation and Infection. Students will have opportunities for interactive learning and engagement in practical and research laboratory settings and upon course completion should have a better understanding of molecular mechanisms that underlie human disease and research topics in the areas of Inflammation and Infection.

## **Course staff**

#### Department of Pathology, School of Medical Sciences

Dr P Polly (Course Convenor); <u>patsie.polly@unsw.edu.au</u> Level 5, Wallace Wurth Building; ph 93852924 Consultation time: Monday 11-12pm

Professor N Hawkins (Head of School) Professor D Wakefield Professor R Kumar Professor A Lloyd Professor M Grimm A/Prof G Velan (Head of Teaching in Pathology) A/Prof N DiGirolamo (Course Co-Convenor) A/Prof N Tedla Dr S Thomas Dr M Dziegielewski

#### **Guest Lecturers and Tutors, Faculty of Medicine**

A/Prof W Sewell Dr C Herbert Dr F Lucani Dr P Phillips Dr J Post Ms A Luo Mr T Thai Mr A Rajkumar Mr A Shadie

#### **Guest Lecturers, UNSW**

Ms Gwyn Jones, Learning Centre UNSW

## **Course administration**

Administrative and general problems related to your attendance, or the content and conduct of the course, can in the first instance be addressed by consulting Dr Patsie Polly (<u>patsie.polly@unsw.edu.au</u>) by e-mail. Students wishing to see other members of staff should <u>make an appointment</u> via e-mail. If students have difficulties of a personal nature, or with the course, they should contact the School's Grievance Officer, Dr P Pandey or Prof N Hawkins, the Head of School.

Should you feel that there are particular circumstances that have affected your performance in the course; you should lodge an application for special consideration. The procedures involved in this are outlined in the UNSW Student Guide, and special forms are widely available on campus e.g. Student Health Centre, Student Centre.

Information on the different research units in the Department of Pathology and the research interests of each staff member is available at Department of Pathology's home page at <a href="http://medicalsciences.med.unsw.edu.au/">http://medicalsciences.med.unsw.edu.au/</a>

All students in course PATH3205 are advised that email is the official means with appropriate etiquette by which the School of Medical Sciences at UNSW will communicate with you. All email messages will be sent to your official UNSW email address (e.g., <u>z1234567@student.unsw.edu.au</u>) and, if you do not wish to use the University email system, you MUST arrange for your official mail to be forwarded to your chosen address. The University recommends that you check your mail at least every other day. Facilities for checking email are available in the School of Medical Sciences and in the University library. Further information and assistance is available from DIS-Connect, Tel 9385 1777. The UNSW Library runs free email courses.

## **Course details**

This course is offered during Semester I and counts for six units of credit (6OC). PATH2201/PATH2202 (Processes in Disease/Processes in Disease for Health and Exercise) are prerequisites for the course. It is also advantageous for students to have undertaken previous or concurrent study in ANAT3212 Research Methods in Microscopy, ANAT3231 Cell Biology, BABS3041 Immunology I.

## **Course aims**

The course PATH3205 Molecular Basis of Inflammation and Infection aims to:

- 1. Promote understanding of the molecular basis of inflammation, responses to infection, allergy, autoimmunity, and diseases of the cardiovascular and respiratory systems. These concepts are introduced in the context of common human diseases or disease processes.
- 2. Relate the above concepts of processes in human disease to biomedical research via the '*Research Lecture and Lab Series*' which provides introductory yet start-of-the-art lectures on relevant areas of medical research, as well as associated laboratory-based workshops.
- 3. Develop oral and written communication skills which underpin dissemination of discoveries in human disease via medical research.

These aims will be achieved by specialist teaching of core concepts and research techniques by academic pathologists who are clinically and/or scientifically trained.

The course aims integrate molecular aspects of human disease into the context of histopathology and macroscopic specimens for each above mentioned disease topics. Furthermore, course aims mesh well with other disciplines including Anatomy, Biochemistry, Immunology, Microbiology, Pharmacology and Physiology.

## **Student learning outcomes**

At the completion of this course, you should be able to:

- 1. Describe the causes, pathogenetic mechanisms, macroscopic and microscopic appearances and clinical consequences of inflammation, responses to infection, allergy, autoimmunity, and diseases of the cardiovascular and respiratory systems.
- 2. Work in collaborative teams to communicate concepts of disease in an oral presentation to non-specialist audiences.
- 3. Work independently to communicate, report and evaluate '*Research Lecture and Laboratory Topics*' in the written form by using specialist scientific journal articles and information from the *Research Lecture and Laboratory Series* and recording findings and interpretations in ePortfolios and as Laboratory Reports.
- 4. Understand the relevance of laboratory techniques in the diagnosis of human disease.

## Learning and teaching rationale

The intended learning outcomes are achieved through study of the common patterns of response to injury, which are often referred to as pathological processes. To understand these processes, you will draw on your knowledge of normal anatomy, histology, biochemistry and physiology. PATH2201 Processes in Disease has introduced the fundamental concepts for the specific diseases to be addressed in PATH3205. This will involve more detailed discussion of recent advances in knowledge pertaining to the molecular basis of inflammation and infection, autoimmunity and both research and diagnostic techniques.

#### Future directions

The course complements PATH3206 *Cancer Pathology*, ANAT3212, BABS3041, PATH3207 *Musculoskeletal Diseases* and PATH3208 *Cancer Sciences: Research Design, Measurement and Evaluation* which is also run in the same academic year. For those wishing to pursue a career in research or hospital based laboratory work, the course will not only develop their basic knowledge of molecular processes, but also provide a framework for understanding how these processes link to the modern practice of medicine and medical research. Similarly, for those who may wish to pursue a career in the health sciences, the course will provide an understanding of the cellular and molecular processes underlying the clinical manifestations of disease. Furthermore, development of ePortfolios will assist students in understanding career pathways in medical research.

## **Teaching strategies**

The course comprises of lectures, tutorials, practical classes, '*research lectures and laboratories*' and assignments, which cover the general and specialist aspects of the molecular basis of disease.

The course employs a variety of teaching modes in order to facilitate your learning:

- 1) A **collaborative, team-based approach** to learning. It is anticipated that students will have an enhanced learning experience through the use of team quizzes, peer teaching and team projects. You are also encouraged to utilise your allocated teams as study groups and build your e-Portfolios.
- 2) A series of **lectures** introduce you to pathological processes, as well as specific examples of those processes affecting organs and tissues. The core lecture series focuses on specific diseases such as meningitis, HIV and diabetes. The tutorials are designed to be complementary to lectures and place these topics in the larger context of human disease. A list of aims and objectives is included for each lecture and tutorial, along with points for discussion and a list of suggested additional resources available on the web.
- 3) Small group **tutorials** are intended to extend and amplify your understanding of material presented in lectures in an interactive format, where you are encouraged to clarify any difficulties regarding the concepts discussed. Students will be allocated into teams and will complete individual and team quizzes and work collaboratively on interpretation of clinical problems and/or investigation results. Pre-reading will be assigned for each tutorial;
- 4) Practical classes employ computer-based virtual microscopy, in order to permit correlation between disease processes, changes in cells and tissues at the microscopic level and the manifestations of disease. Practical classes and tutorials in Molecular Basis of Inflammation and Infection are aimed at amplifying and extending your understanding of the topics gleaned from attendance at lectures and reading of the recommended text, as well as correcting any misconceptions. Practical and tutorial classes will reinforce the clinico-pathological correlations associated with each topic. They are intended to help you to acquire the ability to recognize the macroscopic and microscopic features of pathology specimens and to relate the pathology to clinical application. Macroscopic "pots" will be generally used in conjunction with projected microscopic slides, x-rays and other materials;
- 5) The course also includes several '*Research Lecture and Laboratory Series*' topics that, as the name would suggest, focuses on the most recent research advances in molecular medicine. This section of the course is an innovation for the Department of Pathology and introduces the 'world of medical research' by way of specialist lectures that directly relate to research workshop laboratories; demonstrating 'state-of-the-art' molecular techniques that are key in disease diagnosis. We hope it will provide you with an exciting and challenging glimpse of current approaches in medical research. Learning is supported via Blackboard, Moodle and Mahara (e-Portfolios). Announcements, timetables, lecture slides and other resources will be made available during the course.

#### Prizes

Two prizes will be awarded for Molecular Basis of Inflammation and Infection:

- 1. Best team performance in tutorial quizzes (based on both team and individual scores);
- 2. Best performance by team members in a combination of mid-session and end of course exam.

## **Research experience**

Opportunities exist for all students wishing to undertake undergraduate and postgraduate research program within the School of Medical Sciences. Information can be accessed via the directory for the School of Medical Sciences at: http://www.med.unsw.edu.au/medweb.nsf/page/home?OpenDocument

## Assessment

The breakdown of assessments in the course is as follows:	
Group presentation	20%
ePortofolios: LabBooks	10%
Individual and team performance in tutorial quizzes	15% (5 x 3%)
On-line progress assessments (x2)	5%
Practical Examination	10%
Final examination (2 hours)	40%

#### Group project

(20%)

Students will work in groups to prepare a 15 minute PowerPoint presentation on a topic to be allocated in week 2, S1. Several one-hour sessions will be set aside for students to present their work to the rest of the group. One student from each group will designated to deliver the presentation by random draw (so all students must come prepared), and the remaining students in the group will be responsible for answering questions relating to the presentation.

Prior to the formal student presentations, The Learning Centre will run two presentation skills sessions and a follow-up session. This is an important part of developing skills for the group project.

The group project will be assessed by peers and academics. The peer assessment mark will weigh 10% and the academic assessment mark will weigh 90% of the total mark for this assessment. Sample assessment forms are included below.

#### ePortofolios: LabBooks

(10%)

Students will be required to complete questions based on research labwork within their ePortfolios. Completed laboratory reports must be returned to the BSB office (room G27, ground floor, Biological Sciences) in **week 12** by 12 noon on Wednesday 23<sup>th</sup> May. Topics will be allocated by a random draw. Late LabReports will attract a penalty of 10% of the report mark per week or part thereof.

The laboratory reports will be marked according to the following criteria:

- 1) Demonstrates an understanding of the topic and how it fits into the broader research area.
- 2) Demonstrates knowledge of research methodology and correct application of this to the research question.
- 3) Demonstrates an understanding of the limitations of the technology or model.
- 4) Directly addresses the question posed in the topic.

- 5) Demonstrates an ability to access the current medical literature to gain further information and utilise this in support of an argument.
- 6) Correctly uses references in the laboratory report and provides an appropriate reference list.

The report will be marked out of 20. For **each** of the above objectives marks will be distributed as follows:

•	Did not address the objective	0
•	Attempted to address objective but did not achieve satisfactory standard	1
•	Satisfactorily addressed objective	2
•	Addressed objective well	3

In addition, up to 2 further marks may be awarded for a consistent and / or exemplary performance overall.

## PATH3205 Group Presentations - Peer Assessment Form

Group No. AA Topic Autoimmune haemolytic anaemia

## **Group members**

XXX XXX XXX

#### **Student Assessors (Group Y)**

Name	Sign
Name	Sign
Name	Sign

	0	1	2	3	4
Clear explanation of disease process					
Structure of content – introduction, logical flow, conclusions					
Effective use of PowerPoint to deliver presentation					
Ability to answer questions					
Overall impression					
Subtotal					
Total					

#### **Comments:**

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## **PATH3205** Group Presentations – Academic Assessment Form

Group No.AATopicAutoimmune haemolytic anaemia

## Group members

XXX XXX XXX

ΛΛΛ	-	L .	_	_	
	0	1	2	3	4
Clear explanation of disease process					
Structure of content – introduction, logical flow,					
conclusions					
Effective use of PowerPoint to deliver presentation					
Ability to answer questions					
Overall impression					
Subtotal					
Total					
Comments					
Strengths					
Improvement					
•					
Points for clarification (if necessary)					

#### **On-line** assessments

Students will be offered two online assessments during the course. These are to be completed **during the 10 days in which each is available (students will be notified in lectures when this will be)**. The assessments will include objective items in the same style as the final examination. Students may attempt the assessments as often as they wish within the time allowed until they receive a satisfactory score (>90%). The aim of these assessments is to provide students with feedback on their progress rather than to rank students. Students will receive 2.5% of the total mark for satisfactory completion of **each** of the assessments.

#### Individual and team performance in tutorial quizzes 15% (5 x 3%)

Small group **tutorials** are intended to extend and amplify your understanding of material presented in lectures in an interactive format, where you are encouraged to clarify any difficulties regarding the concepts discussed. Students will be allocated into teams and will complete individual and team quizzes and work collaboratively on interpretation of clinical problems and/or investigation results. Pre-reading will be assigned for each tutorial;

#### Practical examinatiom

Students will complete a practical examination during the **final week** of term (scheduled into normal teaching time). This will consist of a series of 6 stations each with questions based on material presented during term. Students will rotate around the stations, spending 5 minutes per station.

#### Final examination

Students will complete a two-hour written exam at the **end of session** that will contribute 40% of their overall mark. This will include objective items and five short answer questions. Some of the short answer questions may be directly from the Trial Examination Questions in the manual, the learning objectives or the on-line self-assessment. Marks will be weighted as follows:

Short answer	30%	(5 x 15 mins each)
Objective items	10%	

The short answer questions vary in style, but are intended to provide you with the opportunity to demonstrate your understanding of the topic and your ability to integrate ideas rather than simple "regurgitation of facts".

#### Supplementary examination

If required, a supplementary examination in Semester 1, 2012 will be scheduled in the week commencing Monday 9<sup>th</sup> July. Special considerations sought outside the 3 day time period WILL NOT be accepted except in TRULY exceptional circumstances.

## (10%)

(40%)

## Academic honesty and plagiarism

### What is Plagiarism?

Plagiarism is the presentation of the thoughts or work of another as one's own.\* Examples include:

- direct duplication of the thoughts or work of another, including by copying material, ideas or concepts from a book, article, report or other written document (whether published or unpublished), composition, artwork, design, drawing, circuitry, computer program or software, web site, Internet, other electronic resource, or another person's assignment without appropriate acknowledgement;
- paraphrasing another person's work with very minor changes keeping the meaning, form and/or progression of ideas of the original;
- piecing together sections of the work of others into a new whole;
- presenting an assessment item as independent work when it has been produced in whole or part in collusion with other people, for example, another student or a tutor; and
- claiming credit for a proportion a work contributed to a group assessment item that is greater than that actually contributed.<sup>†</sup>

For the purposes of this policy, submitting an assessment item that has already been submitted for academic credit elsewhere may be considered plagiarism.

Knowingly permitting your work to be copied by another student may also be considered to be plagiarism.

Note that an assessment item produced in oral, not written, form, or involving live presentation, may similarly contain plagiarised material.

The inclusion of the thoughts or work of another with attribution appropriate to the academic discipline does *not* amount to plagiarism.

The Learning Centre website is main repository for resources for staff and students on plagiarism and academic honesty. These resources can be located via:

www.lc.unsw.edu.au/plagiarism

The Learning Centre also provides substantial educational written materials, workshops, and tutorials to aid students, for example, in:

- correct referencing practices;
- paraphrasing, summarising, essay writing, and time management;
- appropriate use of, and attribution for, a range of materials including text, images, formulae and concepts.

Individual assistance is available on request from The Learning Centre.

Students are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management.

Students should allow sufficient time for research, drafting, and the proper referencing of sources in preparing all assessment items.

\* Based on that proposed to the University of Newcastle by the St James Ethics Centre. Used with kind permission from the University of Newcastle

† Adapted with kind permission from the University of Melbourne.

The School of Medical Sciences will not tolerate plagiarism in submitted written work. The University regards this as academic misconduct

http://www.student.unsw.edu.au/academiclife/assessment/academic\_misconduct.shtml and imposes severe penalties. Evidence of plagiarism in submitted assignments, etc. will be thoroughly investigated and may be penalised by the award of a score of zero for the assessable work. Flagrant plagiarism will be directly referred to the Division of the Registrar for disciplinary action under UNSW rules.

The attention of students is drawn to the following extract from the above website:

"The basic principles are that you should not attempt to pass off the work of another person as your own, and it should be possible for a reader to check the information and ideas that you have used by going to the original source material. Acknowledgment should be sufficiently accurate to enable the source to be located speedily."

"The following are some examples of breaches of these principles:

a) Quotation without the use of quotation marks. It is a serious breach of these rules to quote another's work without using quotation marks, even if one then refers to the quoted source. The fact that it is quoted must be acknowledged in your work.

b) Significant paraphrasing, e.g., several sentences, or one very important sentence, which in wording are very similar to the source. This applies even if the source is mentioned, unless there is also due acknowledgment of the fact that the source has been paraphrased.

c) Unacknowledged use of information or ideas, unless such information or ideas are commonplace.

d) Citing sources (e.g., texts) which you have not read, without acknowledging the 'secondary' source from which knowledge of them has been obtained."

Appropriate citation of sources therefore includes surrounding any directly quoted text with quotation marks, with block indentation for larger segments of directly-quoted text. The preferred format for citation of references is an author-date format with an alphabetically arranged bibliography at the end of the assignment. Note that merely citing textbooks or website URLs is unlikely to yield a bibliography of satisfactory standard. *The internet should be avoided as a primary source of information*. Inclusion of appropriate journal articles, both primary research publications and reviews, is usually expected.

## PATH3205 Course Timetable NOTE: Changes in the timetable will be announced on Blackboard.

Veek	Date	Time	Location	Lecturer	Title
1	Mon 27/2	9	CLB 4	Polly	Introduction to Molecular Basis of Inflammation and Infection
					** presentation topics announced**
				Module: Infective	Inflammation
		10	CLB 4	Lloyd	Viruses, hosts, and infectious diseases
	Fri 2/3	12	BioMed B	Luciani	Hepatitis C – understanding the virus
		1	BioMed B	Nguyen	Hepatitis C and host immunity
2	Mon 5/3	9	CLB 4	Velan	Meningitis
		10	CLB 4	TBA	TBA
	Fri 9/3	12	Teaching Labs:	Luciani / Nguyen	Hepatitis C - virology/immunology lab
			G2/G4		
		1-3	Tutorial rooms:	see allocation	Tutorial 1 – Acute and Chronic inflammation
			109/110, G2/G4		
			Module: In	nmune Responses in Inf	lammation, Asthma and IBD
3	Mon 12/3	9	CLB 4	Sewell	Molecular basis of allergy
		10	CLB 4	Kumar	Molecular basis of asthma
	Fri 16/3	12	BioMed B/	Kumar	Smoking and the lung
		1-3	Teaching Labs:	Kumar/Herbert	Asthma Research Lecture; Asthma Lab
			109/110, G2/G4		
4	Mon 19/3	9	CLB 4	Jones/Polly	Science communication I:
					Presentation and collaborative learning skills
		10	CLB 4	Grimm	Immune-mediated Bowel Diseases - Ulcerative Colitis and
	Fri 23/3	12-2	Taashing Labor	Grimm/Luo	Coeliac Disease IBD Research Lecture ; IBD Lab
	Ff1 23/3	12-2	Teaching Labs: 109/110, G2/G4	Grimm/Luo	IBD Research Lecture ; IBD Lab
		2-3	Tutorial rooms:	see allocation	Tutorial 2 – Immune Responses in Inflammation eg. Asthma
		2-3	109/110, G2/G4		and IBD
			,	nces of Immunity and Ir	Iflammation, HIV and Autoimmunity
5	Mon 26/3	9	CLB 4	Post	HIV, the virus and its effects - I
		10	CLB 4	Post	HIV, the virus and its effects - II
	Fri 30/3	12	BioMed B	Jones/Polly	Science communication II: Presentation and collaborative
			Teaching Labs:	ТВА	learning skills TBA
		1	109/110, G2/G4		
		1		Mid Semest	er Break
7	Mon 16/4	1 9		Mid Semest	er Break Autoimmune disease I
7	Mon 16/4	9	109/110, G2/G4 CLB 4	Wakefield	Autoimmune disease I
7			109/110, G2/G4           CLB 4           CLB 4	Wakefield Wakefield	Autoimmune disease I         Autoimmune disease II         On-line assessment I
7	Mon 16/4 Fri 20/4	9 10 12	CLB 4 CLB 4 CLB 4 BioMed B	Wakefield Wakefield DiGirolamo	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture
7		9 10	CLB 4 CLB 4 CLB 4 BioMed B Teaching Labs:	Wakefield Wakefield	Autoimmune disease I         Autoimmune disease II         On-line assessment I
		9 10 12	CLB 4 CLB 4 CLB 4 BioMed B	Wakefield Wakefield DiGirolamo	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture
	Fri 20/4	9 10 12 1-3	CLB 4 CLB 4 CLB 4 BioMed B Teaching Labs: 109/110, G2/G4	Wakefield Wakefield DiGirolamo DiGirolamo	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab
8	Fri 20/4	9 10 12 1-3 9	109/110, G2/G4CLB 4CLB 4BioMed BTeaching Labs:109/110, G2/G4CLB 4CLB 4Teaching Labs:	Wakefield Wakefield DiGirolamo DiGirolamo Dziegielewski	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab         Renal Disease - Principles/Examples
	Fri 20/4 Mon 23/4	9 10 12 1-3 9 10	109/110, G2/G4           CLB 4           CLB 4           BioMed B           Teaching Labs:           109/110, G2/G4           CLB 4           CLB 4           Intervention           CLB 4           CLB 4           CLB 4           CLB 4           Teaching Labs:           109/110, G2/G4	Wakefield Wakefield DiGirolamo DiGirolamo Dziegielewski Tedla Wakefield/Tedla	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab         Renal Disease - Principles/Examples         Molecular Regulation of Immunity-LILRs and MS         Practical class - Autoimmunity
	Fri 20/4 Mon 23/4	9 10 12 1-3 9 10	109/110, G2/G4CLB 4CLB 4BioMed BTeaching Labs:109/110, G2/G4CLB 4CLB 4Teaching Labs:109/110, G2/G4Tutorial rooms:	Wakefield Wakefield DiGirolamo DiGirolamo Dziegielewski Tedla	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab         Renal Disease - Principles/Examples         Molecular Regulation of Immunity-LILRs and MS
	Fri 20/4 Mon 23/4	9 10 1-3 9 10 12-2	109/110, G2/G4           CLB 4           CLB 4           BioMed B           Teaching Labs:           109/110, G2/G4           CLB 4           CLB 4           Teaching Labs:           109/110, G2/G4           Tutorial rooms:           106/108, G2/G4	Wakefield Wakefield DiGirolamo DiGirolamo Dziegielewski Tedla Wakefield/Tedla <i>see allocation</i>	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab         Renal Disease - Principles/Examples         Molecular Regulation of Immunity-LILRs and MS         Practical class - Autoimmunity         Tutorial 3 – HIV and Autoimmune disease
	Fri 20/4 Mon 23/4	9 10 1-3 9 10 12-2	109/110, G2/G4           CLB 4           CLB 4           BioMed B           Teaching Labs:           109/110, G2/G4           CLB 4           CLB 4           Teaching Labs:           109/110, G2/G4           Tutorial rooms:           106/108, G2/G4	Wakefield Wakefield DiGirolamo DiGirolamo Dziegielewski Tedla Wakefield/Tedla	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab         Renal Disease - Principles/Examples         Molecular Regulation of Immunity-LILRs and MS         Practical class - Autoimmunity         Tutorial 3 – HIV and Autoimmune disease         ummation: Effects
8	Fri 20/4 Mon 23/4	9 10 1-3 9 10 12-2	109/110, G2/G4           CLB 4           CLB 4           BioMed B           Teaching Labs:           109/110, G2/G4           CLB 4           CLB 4           Teaching Labs:           109/110, G2/G4           Tutorial rooms:           106/108, G2/G4	Wakefield Wakefield DiGirolamo DiGirolamo Dziegielewski Tedla Wakefield/Tedla see allocation Module: Systemic Infla	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab         Renal Disease - Principles/Examples         Molecular Regulation of Immunity-LILRs and MS         Practical class - Autoimmunity         Tutorial 3 – HIV and Autoimmune disease         ummation: Effects
8	Fri 20/4 Mon 23/4 Fri 27/4	9 10 12 1-3 9 10 12-2 2-3	109/110, G2/G4           CLB 4           CLB 4           BioMed B           Teaching Labs:           109/110, G2/G4           CLB 4           CLB 4           Teaching Labs:           109/110, G2/G4           Tutorial rooms:           106/108, G2/G4	Wakefield Wakefield DiGirolamo DiGirolamo Dziegielewski Tedla Wakefield/Tedla see allocation Module: Systemic Infla Research Team P	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab         Renal Disease - Principles/Examples         Molecular Regulation of Immunity-LILRs and MS         Practical class - Autoimmunity         Tutorial 3 – HIV and Autoimmune disease         unmation: Effects         resentations
	Fri 20/4 Mon 23/4 Fri 27/4	9 10 12 1-3 9 10 12-2 2-3 9	109/110, G2/G4         CLB 4         CLB 4         BioMed B         Teaching Labs:         109/110, G2/G4         CLB 4         CLB 4         Teaching Labs:         109/110, G2/G4         Tutorial rooms:         106/108, G2/G4         CLB 4	Wakefield         Wakefield         DiGirolamo         DiGirolamo         Digiegielewski         Tedla         Wakefield/Tedla         see allocation         Module: Systemic Infla Research Team P         Polly	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab         Renal Disease - Principles/Examples         Molecular Regulation of Immunity-LILRs and MS         Practical class - Autoimmunity         Tutorial 3 – HIV and Autoimmune disease         ummation: Effects         resentations         Student presentations
	Fri 20/4 Mon 23/4 Fri 27/4 Mon 30/4	9 10 12 1-3 9 10 12-2 2-3 9 10	CLB 4 CLB 4 CLB 4 CLB 4 BioMed B Teaching Labs: 109/110, G2/G4 CLB 4 CLB 4 CLB 4 Teaching Labs: 109/110, G2/G4 Tutorial rooms: 106/108, G2/G4 CLB 4 CLB 4 CLB 4 BioMed B Teaching Labs:	Wakefield         Wakefield         DiGirolamo         DiGirolamo         Dziegielewski         Tedla         Wakefield/Tedla         see allocation         Module: Systemic Infla         Research Team P         Polly         Polly	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture         Stem Cells Research Lab         Renal Disease - Principles/Examples         Molecular Regulation of Immunity-LILRs and MS         Practical class - Autoimmunity         Tutorial 3 – HIV and Autoimmune disease         Immation: Effects         Presentations         Student presentations
8	Fri 20/4 Mon 23/4 Fri 27/4 Mon 30/4	9 10 12 1-3 9 10 12-2 2-3 9 10 12	109/110, G2/G4           CLB 4           CLB 4           BioMed B           Teaching Labs:           109/110, G2/G4           CLB 4           BioMed B	Wakefield         Wakefield         DiGirolamo         DiGirolamo         Dziegielewski         Tedla         Wakefield/Tedla         see allocation         Module: Systemic Infla         Research Team P         Polly         Polly         Polly         Polly	Autoimmune disease I         Autoimmune disease II         On-line assessment I         Stem Cells, Inflammation and Immunology Research Lecture Stem Cells Research Lab         Renal Disease - Principles/Examples         Molecular Regulation of Immunity-LILRs and MS         Practical class - Autoimmunity         Tutorial 3 – HIV and Autoimmune disease         ummation: Effects         resentations         Student presentations         Student presentations         Inflammation and Musculoskeletal Effects- Cachexia

	Fri 11/5	12 1-3	BioMed B Teaching Labs:	Phillips Phillips	Inflammation Effects-Pancreatitis and Pancreatic Cancer Pancreatic Disease Research Lab
		10	109/110, G2/G4	1 mmps	
11	Mon 14/5	9	CLB 4	Polly	Student presentations
		10	CLB 4	Polly	Student presentations
					On-line assessment II
	Fri 18/5	12	BioMed B	Thomas	Inflammation and Cardiovascular Effects
		1-3	Teaching Labs: 109/110, G2/G4	Thomas	Inflammation and Cardiovascular Research Lab:
12	Mon 21/5	9	CLB 4	Polly	Student presentations
		10	CLB 4	Polly	Student presentations
					**Lab reports due 23/5/2012-G27 Biological Sciences**
	Fri 25/5	12	BioMed B	Kumar	Cardiovascular Disease Examples and Complications
		1-3	Tutorial rooms:	Dziegiewlewski	Practical Class-CardioRespiratory
			109/110, G2/G4	see allocation	Tutorial 4 – Cardiovascular disease
13	Mon 28/5	9	CLB 4	Polly/Jones/	'Feedback'
		10	Tutorial rooms:	Revision	Revision
			109/110, G2/G4		
	Fri 1/6	12-3	G2/G4, 109/110,	Polly	** Practical examination **
			106/108		
			G2/G4, 109/110,		
			106/108		

KEY:

Digirolamo	A/Prof Dr Nick Digirolamo	Inflammation and Infection Research Centre (IIRC;Pathology)
Dziegielewski	Dr Mark Dziegielewski	Department of Pathology, UNSW
Grimm	Prof Michael Grimm	Inflammation and Infection Research Centre (IIRC;Pathology);St George Hospital
Jones	Ms Gwyn Jones	The Learning Centre, UNSW
Kumar	Prof Rakesh Kumar	Department of Pathology, UNSW
Lloyd	Prof Andrew Lloyd	Inflammation and Infection Research Centre (IIRC;Pathology);
Polly	Dr Patsie Polly	Inflammation and Infection Research Centre (IIRC); Department of Pathology
Post	Dr Jeffrey Post	Prince of Wales Clinical School, UNSW and Prince of Wales Hospital
Sewell	A/Prof Bill Sewell	St Vincent's Hospital
Tedla	A/Prof Nicodemus Tedla	Inflammation and Infection Research Centre (IIRC;Pathology);
Thomas	Dr Shane Thomas	Department of Pathology, UNSW (CVR, Lowy; Pathology)
Velan	A/Prof Gary Velan	Department of Pathology, UNSW
Wakefield	Prof Denis Wakefield	Department of Pathology, Associate Dean-Faculty of Medicine, UNSW

## **Resources for students**

You are expected to acquire the following text: *Basic Pathology*, 8th Ed. V. Kumar, R. Cotran & S Robbins (2007). Saunders & Co.

Students wishing to study the molecular biology or clinical features of diseases in greater depth might consider the purchase of the following text:

*Robbins and Cotran Pathologic Basis of Disease*. 8<sup>th</sup> edition. Ed. V. Kumar, A.K. Abbas N. Fausto and J. Aster. (2009) Elsevier Saunders.

## PATH3205 Student Manual

The PATH3205 Student Manual clearly outlines the learning objectives for each tutorial topic and practical class. Although these learning objectives may not all be covered within a particular class it is imperative that you address each of these issues during your own period of study and revision. Trial examination questions are included where appropriate, so that you can assess your own progress by answering the question pertaining to the relevant topic at the end of each week.

The Pathology Manual contains a large amount of valuable information that will facilitate your study. In particular you should become familiar with the Glossary of Terms and the Table of Reference Ranges in Pathology.

In addition, there are many resources available on the web, which vary from simple patient information brochures to on-line pathology courses to information on the latest research. Some general sites you may find useful are:

Centre for Disease Control (see especially 'health topics A-Z') <u>http://www.cdc.gov/</u>

University of Utah (tutorials and images on many of the topics covered) <u>http://library.med.utah.edu/WebPath/webpath.html#MENU</u>

Medline Plus ('health topics' index of diseases with information) <u>http://www.nlm.nih.gov/medlineplus/healthtopics.html</u>

Other resources are indicated for some lectures in the PATH3205 Student Manual.

## PATH 3205 Blackboard Module

Students enrolled in PATH3205 will be able to access the timetable, lecture notes and related information online via Blackboard (login with zPass): http://lms-blackboard.telt.unsw.edu.au/

## The Museum of Human Disease

The Donald Wilhelm Museum of Human Disease is located on the ground floor of the Samuels Building (Building F25). Originally located on the 5<sup>th</sup> floor of the Wallace Wurth Building, it was established by Professor Donald Wilhelm, the Foundation Professor of Pathology at this university. Thanks to his foresight, and to the tireless efforts of Dr G. Higgins (the Museum Curator until 2004), the Museum has been meticulously maintained and updated over the years to reflect the changing patterns of disease in our society. The Museum contains over 2,700 specimens (or "pots"), which display diseased human tissue at the macroscopic level, usually preserved in formalin. Specimens are obtained both from organs removed surgically and from tissue obtained at autopsy, where the natural history of disease is in full view. Please take note that some specimens of diseases which have become rare, e.g. diphtheria, are over 60 years old, and are irreplaceable. Each specimen is numbered and is accompanied by a clinical history (when known), a macroscopic description of the abnormalities displayed, and a histopathological description of changes at the microscopic level (where relevant). That information, specific to each of thirty areas (or "bays"), can be found in the Museum catalogues located in a bracket within each bay.

All the specimens in the museum are arranged in one or other of two major groups. One group comprises collections of specimens according to pathological processes such as congenital, inflammation and healing, vascular, neoplasia etc. The second group comprises collections of specimens under organ systems, such as cardiovascular, central nervous, renal etc. As responsible adults, we expect you to maintain decorum in the Museum, behave with care and respect for the integrity of the specimens, and help to keep the Museum tidy at all times. This means no eating or drinking in the Museum, and always returning specimens and catalogues to their allocated places. **Do not shake the pots!** This activity conveys no useful information, but often damages the specimens. If you discover that a specimen is leaking or broken, follow the instructions listed in the safety notice below. **Remember that the Museum is a precious learning resource, of which you are encouraged to make full use**.

#### Security in the museum

#### It is a crime under the Human Tissue Act to steal or mistreat material preserved in the Museum or practical class laboratories. Anyone who contravenes the Act will be prosecuted.

In order to protect the collection of specimens, access to the Museum is restricted for students in Medicine and PATH3205 during weekdays from 8 a.m. to approximately 8 p.m. The Museum is security locked, and can only be entered by using your student card to enable the doors to be opened. Mr Williamson and the Museum Technical Officer play a supervisory role during office hours.

The Museum and practical class laboratories are under constant electronic surveillance.

#### Safety in the museum

- Always handle museum specimens with care and respect. All specimens consist of generously donated human tissue.
- The specimens are preserved in fixative solutions which contain a variety of toxic compounds:

Chemical	Percentage Composition
Glycerol	1.6 (v/v)
Saturated Camphor in Ethanol	0.16 (v/v)
Sodium Acetate	0.08 (w/v)
Formalin	0.16 (v/v)
Sodium Dithionate	0.25 (w/v)

- For reasons of hygiene, never take food or drink into the museum.
- Never leave a museum specimen on the floor, or in any precarious position.
- If a specimen is leaking, turn it upside down to prevent further leakage, then immediately inform the Museum Technical Officer or a member of academic staff.
- If a specimen is broken, do not attempt to wipe up the spillage. Use the kitty litter provided in the central cupboards to absorb the fumes, then clear the area and immediately inform the Museum Technical Officer or a member of academic staff.
- Remember that the museum is here for your benefit your cooperation in maintaining neatness and safety at all times is appreciated.
- For more information on matters related to health safety policies of the UNSW visit the following web site. <u>www.riskman.unsw.edu.au/ohs/ohs.shtml</u>

## Health and Safety

New Work Health and Safety Legislation commenced 1st January 2012. Many of the changes relate to the nationalisation of HS in Australia and will be gradually introduced

www.workcover.nsw.gov.au/formspublications/publications/Documents/model\_work\_hea <u>lth\_safety\_regulations\_summary\_key\_changes\_3489.pdf</u>

## **Student Equity Issues**

Those students who have a disability that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with the course convener prior to, or at the commencement of, their course, or with the Equity Officer (Disability) in the Equity and Diversity Unit (9385 4734 or <u>www.equity.unsw.edu.au/disabil.html</u>). Issues to be discussed may include access to materials, note-takers, the provision of services and additional examination and assessment arrangements. Early notification is essential to enable any necessary adjustments to be made. Information on designing courses and course outlines that take into account the needs of students with disabilities can be found at:

www.secretariat.unsw.edu.au/acboardcom/minutes/coe/disabilityguidelines.pdf

## **Continual course improvement**

Periodically student evaluative feedback on the course is gathered, using UNSW's Course and Teaching Evaluation and Improvement (CATEI) Process and in-house course evaluation questionnaires. These questionnaires are available on-line where students are requested to provide feedback on the course. Student feedback is taken seriously, and continual improvements are made to the course based in part on such feedback.

## **Administrative Matters**

You may also meet the following members of the School support staff during the course of the year:

#### Ms Soo Han Chup

Position:Administrative OfficerLocation:Room G3, Ground floor, Wallace Wurth BuildingMs Chup is responsible for the distribution of Pathology manuals and Images of Disease CD-ROMs tostudents, and will assist in arranging interviews with academic staff within the Department.

#### Mrs Carmen Robinson

Position:Administrative OfficerLocation:BSB Office, Room G27, Biological Sciences BuildingMs Robinson is responsible for general administration and student support within the School of MedicalSciences.

#### **Mr Fergus Grieve**

Position:Web & TELT AdministratorLocation:Room G3, Ground floor, Wallace Wurth BuildingMr Grieve is responsible for uploading resource to the PATH3205 Blackboard Module.

#### Mr Derek Williamson

Position: Museum Manager

Location: Room G04 Ground Floor Samuels Building, Building F25

Mr Williamson provides support for all undergraduate teaching programs. He plays a major role in broadening the use of the Museum of Human Disease by supervising an integrated learning program for senior high school students and community interest groups. Mr Williamson co-ordinates a network of volunteers, who assist with the supervision of visitors from outside the University. Contact Mr Williamson immediately if there are any broken or leaking specimens in the Museum.

#### Ms Julia Kiss

Position: Museum Education Officer

Location: Room G04 Ground Floor Samuels Building, Building F25

Ms Kiss provides support for all undergraduate teaching programs, and assists in delivering an integrated learning program for senior high school students and community interest groups.