**PHL 622**

**(Selected topics in Pharmacology)**

**Materials:** Scientific database (SCIENCE DIRECT, PUBMED, OVID, ect,) for latest studies and literature review.

The report has to be submitted **at least 24 hrs. before the indicated presentation & discussion date.**

Note: **\*\*\*** means rich topics require a bit more time for preparation.

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| **Presentation & Discusson Date** | **Time** | **Topics** |
|  |  | **Involvement of signaling pathways in cardiac remodeling\*\*\*.** |
|  |  | **Assignment #1****Cardiac hypertrophic models (*in vivo* and *in vitro* cardiac hypertrophic models).** |
|  |  | **Assignment #2****Biomarkers of cardiac hypertrophy.** |
| **25 Feb 2016** | **Discussion & presentation****10-12** | **Molecular targets in atherosclerosis**  |
| **25Feb 2016** | **Discussion & presentation****10-12** | **Therapeutic perspective for treatment of atherosclerosis.** |
| **3 March 2016** |  | **Midterm Exam** |
| **25 March 2016** | **Discussion & presentation****10-12** | **New drugs and advanced therapies for diabetes mellitus.** |
| **25 March 2016** | **Submission** | **Assignment #3****Implication of oxidative stress in diabetes mellitus.** |
| **25 March 2016** | **Submission** | **Assignment #4****Experimental models of diabetes (*In vitro* and *in vivo* models of diabetes).** |
| **7 April 2016** | **Discussion & presentation****10-12** | **Involvement of signaling pathways in diabetic nephropathy\*\*\*.** |
| **21 April 2016** | **Discussion & presentation****10-12** | **New approaches for treatment of diabetic nephropathy.** |
| **5 May 2016** | **Submission** | **Assignment #5****Focus on two aspects:****\*relation between angiogenesis and cancer****\* Mechanism of action of the antiangiogenic agents** |
| **Not indicated yet** | **Not indicated yet** | **Final Exam** |

**Grade distribution:**

Midterm Exam: 20 Marks

Reports: 10 Marks

Presentation & Discussion: 15 Marks

Assignments: 15 Marks

Final Exam: 40 Marks

Total: 100 Marks