

#### Cycle view of the study programme

Bl Or Th Pr Au Cr

#### Information

Professor Ph HUBERT

Analytical chemistry

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#### Collegiality

For the ULiege: Vincent BIERLAIRE, Bruno BOULANGER, Raphaël DENOOZ, Laurence DENIS, Brigitte EVRARD, Marianne FILLET, Michel FREDERICH, Stéphanie GOFFLOT, Philippe HUBERT, Pierre LEBRUN, Roland MARINI, Dominique MARTIN, Bernard PIROTTE, Régis RADERMECKER, Jean-Michel VANDERHOFSTADT, Eric ZIEMONS. For the ULB: Céline DEPORTE, Patrick DI STEFANO, François DUFASNE, Walid EL AZAB, Véronique FONTAINE, Jonathan GOOLE, Anne LENAERS, Hugues MALONNE, Thierry SCHURMANS, Caroline STEVIGNY, Lorenzo TESOLIN, Pierre VAN ANTWERPEN, Francis VANDERBIST, Karen VAN MALDEREN, David VERMIJLEN, Zéna WIMANA.

For the UCLouvain: Catherine DRUEZ, Laure ELENS, Xavier MARCELIS, François-Xavier MATHY, Jacques POUPAERT, Thierry PRONCE, Joëlle LECLERCQ, Nevin SERBEST, Rita VANBEVER.

#### Compulsory courses (B1 : 60Cr)

Course Code	Course Title	Bl	Or	Th	Pr	Au	Cr
PHIN2034-1	<i>Biotechnologies</i>	B1	TA				7
	- Concepts and production of protein and oligonucleotide biopharmaceuticals - David VERMIJLEN		15	-	-		
	- Living biopharmaceuticals, vaccines and biosecurity - Véronique FONTAINE		6	-	-		
	- Managing the risk of the release of cell and genetic products - Roland MARINI DJANG'EING'A		3	-	-		
	- Formulation of biopharmaceuticals - Rita VANBEVER		15	-	-		
	- Quality control and analytical techniques in biopharmaceuticals, good practice and legal recommendations, part A - Marianne FILLET		5	-	-		
	- Quality control and analytical techniques in biopharmaceuticals, good practice and legal recommendations, part B (post-translational modifications) - Cédric DELPORTE		3	-	-		
	- From the laboratory to the pharmacy: legal requirements - part a: Patents and industrial protection - Patrick DI STEFANO		5	-	-		
	- From the laboratory to the pharmacy: legal requirements - part b: Statutes and regulatory constraints on biological products - Hugues MALONNE		3	-	-		
	- From the laboratory to the pharmacy: legal requirements - part c: Procedure for releasing batches and the legal framework of vaccines - Lorenzo TESOLIN		1	-	-		
	- From the laboratory to the pharmacy: legal requirements - part d: Organisation of quality assurance - Thierry PRONCE		3	-	-		
	- From the laboratory to the pharmacy: legal requirements - part e: Introduction to Biobanking - Stéphanie GOFFLOT		3	-	-		
	PHIN2004-1	<i>Active substances</i>	B1	TA			
- Substances issues de recherches pharmacochimiques, part a - Bernard PIROTTE			10	-	-		
- Substances issues de recherches pharmacochimiques, part b - François DUFASNE			5	-	-		
- Substances d'origine naturelle, part a - Joëlle LECLERCQ			5	-	-		
- Substances d'origine naturelle, part b - Caroline STEVIGNY			5	-	-		
- Produits radiopharmaceutiques - Zéna WIMANA		10	-	-			
PHIN2008-2	<i>Clinical viewpoints</i>	B1	TA				5
	- Métabolisme des médicaments et paramètres pharmacocinétiques - FrançoisXavier MATHY		20	-	-		
	- Aspects théoriques et pratiques des études cliniques (y compris les méthodes statistiques appliquées aux études cliniques) -		15	-	-		

	ADERMECKER - <i>Information et pharmacovigilance</i> - Raphaël DENOZ		10	-	-	
PHIN2013-2	<i>Quality assurance and pharmaceutical management</i> - <i>Principles of pharmaceutical management</i> - <i>Quality assurance, part a : basic concepts and quality assurance organisation</i> - Thierry PRONCE - <i>Quality assurance, part b: analytical technology of procedures and risk analysis</i> - Xavier MARCELIS - <i>English applied to the pharmaceutical industry</i> - Jacques POUPAERT, Nevin SERBEST - <i>Pharmaceutical marketing</i> - Vincent BIERLAIRE	B1 TA	10 14,5 10 20 7,5	- - - - -	- - - - -	<b>7</b>
PHIN2033-1	<i>Pharmaceutical technology</i> - <i>Industrial pharmaceutical microbiology</i> - Véronique FONTAINE - <i>Preformulation and selection of galenical forms</i> - Jonathan GOOLE - <i>Industrial production of galenical forms</i> - Brigitte EVRARD - <i>Industrial aspects of technological development including packaging</i> - Laurence DENIS	B1 TA	9 15 15 10	- - - -	- - - -	<b>5</b>
PHIN2023-1	<i>Drug analysis</i> - <i>Analytical control practices and pharmaceutical and biopharmaceutical control - part a</i> - Pierre VAN ANTWERPEN - <i>Analytical control practices and pharmaceutical and biopharmaceutical control - part b</i> - Marianne FILLET - <i>Pharmaceutical and biopharmaceutical analytical methods - Approving and certifying equipment</i> - Philippe HUBERT, Roland MARINI DJANG'EING'A - <i>Pharmaceutical and biopharmaceutical analytical methods - Process Analytical Technology</i> - Eric ZIEMONS - <i>Statistical methods applied to the pharmaceutical industry</i> - Laure ELENS - <i>Experimental planning and quality by design</i> - Bruno BOULANGER, Pierre LEBRUN	B1 TA	7 5 12 5 15 10	- - - - - -	- - - - - -	<b>6</b>
PHIN2029-2	<i>Regulation and the medical-social environment</i> - <i>Economic aspects of drug development</i> - Dominique MARTIN - <i>Legislation and procedures applied to pharmaceutical industry</i> - Catherine DRUEZ - <i>Patents and protection</i> - Patrick DI STEFANO - <i>Macroeconomic environment and pharmaco-economics</i> - Hugues MALONNE - <i>CTD File (Common Technical Document)</i> - Walid EL AZAB - <i>Regulations of preclinical and clinical studies, part a : pharmaceutical toxicological files</i> - Karen VAN MALDEREN - <i>Regulations of preclinical and clinical studies, part b : clinical studies</i> - Anne LENAERS - <i>Regulations of preclinical and clinical studies, part c : pediatric studies</i> - Thierry SCHURMANS - <i>Specific regulatory issues, part a : medicine and herbal dietary supplement</i> - Michel FREDERICH - <i>Aspects réglementaires particuliers, partim b : Préformulation et documentation du développement galénique</i> - Francis VANDERBIST	B1 TA	10 10 5 7 15 7,5 5 2,5 5 5	- 5 - - - - - - - -	- - - - - - - - -	<b>8</b>
PHIN2032-1	<i>Visits and seminars organised in the pharmaceutical industry</i> - François DUFRASNE, Marianne FILLET, Joëlle LECLERCQ, Rita VANBEVER - [75h Vis.]	B1 TA		-	-	[+] <b>3</b>
MTFE2000-1	<i>End-of-course work carried out during an internship in the pharmaceutical industry or in a university research lab</i> - François DUFRASNE, Philippe HUBERT, Joëlle LECLERCQ - [12w STCO]	B1 TA		-	-	[+] <b>15</b>