

Schedule for 2310610
 CELLULAR BIOCHEMISTRY (2 credits)
 First semester (2019)

Time : July 22 - Aug 9 : MON - FRI 9.00 - 12.00 (3h) or 9.00 - 11.30 (2.5 h) Room 504.1, Klum Building

Coordinator: Supaart

Topic	Hrs.	Date	Instructor
1. Biochemical Basis of the Cell <ul style="list-style-type: none"> • Introduction to biochemical concepts • Biochemical evolution • The chemical components of a cell: Building blocks of life 	3		Supaart
2. Macromolecules <ul style="list-style-type: none"> • Carbohydrate • Lipids • Nucleic acids • Protein and Enzymes (+Function) • Exploring proteins and proteomics 	6	July 22, 23, 24 (Q&A 24 afternoon)	Supaart
Examination 1: Aug 25, 2019 (9.30-11.30)			
3. Basic Genetic Mechanisms <ul style="list-style-type: none"> • Genes and genomes • DNA replication, repair, and recombination • From DNA to protein • Exploring genes and genomics 	9	July 30, 31 Aug 1, 2 (Q&A 2 afternoon)	Vorraon
Examination 2: Aug 5, 2019 (9.30-11.30)			
4. Energy and Metabolism <ul style="list-style-type: none"> • Basic concepts: bioenergetics and design of metabolism • Glycolysis and gluconeogenesis • The citric acid cycle • The mitochondrion: oxidative phosphorylation • Lipid metabolism • Metabolism of N-containing compounds 	10	Aug 6, 7, 8, 9 (Q&A TBA)	Surasak
Examination 3: TBA			