

CYTOGENETIC

Module code	BIO 60403		
Module level	1 st year of Master Program in Biology		
Abbreviation, if applicable	GENSEL		
Courses related	-		
Semester	Even		
Course coordinator(s)	Dr. Budi Setiadi Daryono, M.Agr.Sc.		
Lecture(s)	 Dr. Budi Setiadi Daryono, M.Agr.Sc. Dr. Niken Satuti Nur Handayani, M.Sc. 		
Language	Bahasa Indonesia and English		
Classification within the	Compulsory Course for Specific Field of Interest		
Teaching format/class	This course is organized into one class and planned to		
hours per week during the	have 10 topic teaching with 2 time of examination. This		
semester	course also has laboratory works credits.		
WORKIOAU	Estimated working hour. 10,5 hours/week.		
Credit	2-1 credits		
Requirements	- -		
Course Learning Outcome	 Able to explain the principles of cytogenetic, explain mechanism of chromosome activity during mitosis, its role in human health, and how the mutation occured, and also corelated to heredity. Able to design experiments and utilize methods in cytogenetic. Able to make reports on animal experiments related to cytogenetic research 		
Syllabus	This course covers the study of the cytogenetic. Students will learn the basic knowledge in chromosomes, cell cycle, mutation, and technique in cytogenetics.		
Study/exam achievements	 Midterm: 30% Final examination: 35% Projects: 15% Quiz: 15% Tasks 10 % Activity 10% 		
Forms of media Reference	White board, notebook, LCD a. Arisyta, G.R., B.S. Daryono, Sn.S. Handayani		
	dan T. Arisuryanti. 2015. Karakterisasi Kromosom Tumbuhan & Hewan. Gadjah Mada University Press. Yogykarta.		



THE MODULE HANDBOOK FACULTY OF BIOLOGY

MASTER PROGRAMME

b.	Campbell, N.A., L.G. Mitchell, and J.B. Reece. 2006. Biology. Concept and Connection. The Benyamin Cummings Publ.Co.Inc., California (USA)
С.	Griffith, A.J.F., J.F.Miller, D.T. Suzuki, R.C.
	Lewontin, and W.M. Gelbart. 1999. An
	Introduction to Genetic Analysis. W.H.
	Freeman & Co., New York (USA)
d.	Klug, W.S. and R. Cummings. 2000. Concept of
	Genetics . 6 th .ed. Prentice Hall Inc., New Jersey (USA)
e.	Passarge, E. 2001. Color Atlas of Genetics.
	2 nd .ed. Thieme Stuttgart, New York (USA)
f.	Popescu, P. & B. Dutrillaux. 2000. Techniques
	in Animal Cytogenetics. Springer-Verlag.
	Berlin
g.	Suryo. 1995. Sitogenetika. Gadjah Mada
_	University Press, Yogyakarta.
h.	Summer, A.T. 2003. Chromosomes.
	Organization and Function. Blackwell Publ.
	(UK)