BIOL 7020 ASpecial Topicin Cell and Molecular Biology (Fall 2013; CRIN328)

1. Course Information

- x Course number and section: BIZ0120 A
- x Course nameSpecial Topics in Cell and Molecular Biology
- x Hours of credit2
- x Pre-requisites or cerequisites a sisted in university catalogue? rerequisite: Acceptance into the graduate program in biology or permission of the instructor.
- x Classroom location and room numb a C2202 W 5:00 pm 6:50 pm
- x Department, Colleg, University: Department of Biogy, Colleg of Arts and Sciences, Valdosta State University

2. Instructor Information

- x Instructor name: Dr. Jonghoon Kang
- x Instructor contact: **B** 2217, 229333-7140, jkang@valdosta.edu
- x Instructor office hoursMon andTue 9:00 am t 10:00 am

- 9 Contents: About the laureate, Backgroundfothe field U ^ μ u u OE Ç } (š Z o μ OE š [work, Your thought on future work
- 6. Assessment or Evaluation Pyl

Presentation	30
Term paper	30
Mid-Term Test	20
Final exam	20

Absence from class -5 (each time)

Total 100

$$A >= 90\%$$
, $B >= 80\%$, $>= 70\%$ D >= 60%, $F < 60\%$

7. Schedule of Activities or Assignments, including universityeduled final examinte (all schedule is tentative and may be subject to change)

Date	Class
8/14	Organizational meeting
8/21	Kang on Bruce A. Beutler
8/28	Antonio
9/4	Simone
9/11	Josh
9/18	Justin
9/25	Richard
10/2	Joseph
10/9	Mid-Term Test
10/16	Samreen
10/23	DavidA
10/30	Sean
11/6	Ted
11/13	Kang,Term Paper Due
11/20	Final Exam

List of the topics

"for his development of nuclear magnetic resonance spectroscopy for determining the three dimensional structure of biological acromolecules in solution"

The Nobel Prize in Physiology or Medicine 2012

Sir John B. Gurdon and Shinya Yamanaka

"for the discovery that mature cells can be reprogrammed to become pluripotent"

The Nobel Prize in Physiology or Medicine 2011

Bruce A. Beutleand Jules A. Hoffmann

"for their discoveries concerning the activation of innate immunity"

Ralph M. Steinman

"for his discovery of the dendritic cell and its role in adaptive immunity"

The Nobel Prize in Physiology or Medicine 2010

Robert G. Edwards

"for the development of in vitro fertilization"

The Nobel Prize in Physiology or Medicine 2009

Elizabeth H. Blackburn, Carol W. Greider and Jack W. Szostak

"for the discovery of how chromosomes are protected by telomeres and the enzyme telomerase"

The Nobel Fize in Physiology or Medicine 2008

Harald zur Hausen

"for his discovery of human papilloma viruses causing cervical cancer"

Françoise BarrSinoussi and Luc Montagnier

"for their discovery of human immunodeficiency virus"

The Nobel Prize in Physiology ore Volicine 2007

Mario R. Capecchi, Sir Martin J. Evans and Oliver Smithies

"for their discoveries of principles for introducing specific gene modifications in mice by the use of embryonic stem cells"

The Nobel Prize in Physiology or Medicine 2006

Andrew Z. Fre and Craig C. Mello

"for their discovery of RNA interferencemene silencing by doubletranded RNA"

The Nobel Prize in Physiology or Medicine 2005

Barry J. Marshall and J. Robin Warren

"for their discovery of the bacterium Helicobacter pylori and otter in gastritis and peptic ulcer disease"

The Nobel Prize in Physiology or Medicine 2004

Richard Axel and Linda B. Buck

"for their discoveries of odorant receptors and the organization of the olfactory system"

The Nobel Prize in Physiology or Medicine 200

Paul C. Lauterbur and Sir Peter Mansfield

"for their discoveries concerning magnetic resonance imaging"

The Nobel Prize in Physiology or Medicine 2002

Sydney Brenner, H. Robert Horvitz and John E. Sulston

"for their discoveries concerning genetic regulator organ development and programmed cell death"

The Nobel Prize in Physiology or Medicine 2001

Leland H. Hartwell, Tim Hunt and Sir Paul M. Nurse

"for their discoveries of key regulators of the cell cycle"

The Nobel Prize in Physiology or Medicine 2000

Arvid Carlsson, Paul Greengard and Eric R. Kandel

"for their discoveries concerning signal transduction in the nervous system"