

## Biologia – A7302A

<b>Docente</b>	Prof. Varriale Bruno
<b>Anno</b>	1° anno
<b>Corso di studi</b>	Tecnica della Riabilitazione Psichiatrica
<b>Tipologia</b>	Di Base
<b>Crediti</b>	2
<b>SSD</b>	BIO/13
<b>Anno Accademico</b>	2013-2014
<b>Periodo didattico</b>	Primo Semestre
<b>Propedeuticità</b>	Nessuna
<b>Frequenza</b>	Obbligatoria
<b>Modalità di esame</b>	Superamento di una prova orale
<b>Sede</b>	Napoli
<b>Orario lezioni</b>	<b>Lezioni:</b> Ottobre-Dicembre
<b>Appelli di esame</b>	Gennaio-Febbraio-Marzo- Maggio-Giugno-Luglio-Settembre-Ottobre
<b>Orario di ricevimento</b>	Dal lunedì al venerdì, previo appuntamento
<b>Organizzazione della didattica</b>	Lezioni frontali
<b>Risultati di apprendimento previsti</b>	
<b>Programma</b>	Introduzione allo studio della Biologia Il nucleo: il DNA – Struttura degli acidi nucleici Il nucleo: Duplicazione del DNA – Trascrizione La membrana cellulare Le modalità di trasporto attraverso la membrana Il mitocondrio I ribosomi (rRNA) L'apparato di Golgi I lisosomi Il reticolo endoplasmatico liscio e rugoso Il ciclo cellulare La divisione cellulare – Mitosi La divisione cellulare – Meiosi e gametogenesi Codice genetico e trasferimento dell'informazione (tRNA; mRNA) Sintesi proteica Fecondazione e concetto di variabilità

## Testi consigliati e bibliografia

**Curriculum docente** Bruno Varriale was born in Naples March 19, 1953. He graduated with honors in Biological Sciences 5/31/1979. He graduated with honors in Chemistry on 07/27/1983. From 4.2.84 served at the School of Medicine of the University of Naples "Federico II" as Researcher. In 1985 he won the Prize of the Foundation "Battista Grassi" of the National Academy of Lincei. From 02.04.87 entered in the role of Assistant Professor at the Faculty of Medicine, University of Naples "Federico II". In 1987 he won a scholarship based on agreements between the Accademia Nazionale dei Lincei and the Royal Society. From 02/29/88 to 02/28/92 attended, as "visiting worker", the Laboratory of Developmental Biochemistry, National Institute for Medical Research in London, laboratory directed by Dr. Jamshed R. Tata. In March 1993, is the winner of a scholarship on the basis of agreements between the Accademia Nazionale dei Lincei and the Royal Society. From 20/10/93 to 20/12/93 attended, in quality of "visiting worker", the Laboratory of Developmental Biochemistry, National Institute for Medical Research in London, laboratory directed by Dr. Jamshed R. Tata. In December 1999, the competition proved to be suitable for comparative Professor of the second band banned by the Second University of Naples. In January 2000, he was named in the Faculty of Medicine and Surgery of the Second University of Naples and in the same month he joined as an associate professor at the group competition Bio13 (Applied Biology). It is currently in service with the Department of Experimental Medicine, Second University of Naples.

Since the academic year 1992/93 is in charge of Genetics at the Degree in Medicine and Surgery of the Second University of Naples.

Member of AIBG (Italian Association of General and Molecular Biology and Genetics), the European Society for Comparative Endocrinology, the British Society for Endocrinology, the Italian Society of Human Genetics (SIGU).

Author of 58 works in extenso in international journals to editorial control and 68 reports in national and international conferences

### SCIENTIFIC ACTIVITIES

The research activity focuses on the following topics:

A) Physiology of reproduction in Amphibians:

B) Profile of sex hormones and their regulation.

C) Hormonal control of certain activities in the enzymatic system and hypothalamic-pituitary control of male fertility.

D) Hormonal regulation of gene expression in target tissues.

E) Analysis and characterization of microsatellites in various animal species including man.

F) Linkage studies in human diseases such as idiopathic scoliosis, neurofibromatosis, trimethylaminuria, obesity.