University of Gdańsk

Subject card

Subject name and code	Genetics of behavior - lecture, PG_00132828		
Field of study	Criminology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	Master's studies	Subject group	Optional subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	1.0
Learning profile	academic	Assessment form	credit
Conducting unit	Laboratory of Neurobiology -> Department of Animal and Human Physiology -> Faculty of Biology -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Wojciech Glac	
	Teachers	dr Wojciech Glac dr hab. Magdalena Podlacha	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	20.0	0.0	0.0	0.0	0.0	20

E-learning hours included: 0.0

eNauczanie source addresses:

Moodle ID: 4852 Genetyka zachowania/behawioralna
https://mdl.ug.edu.pl/course/view.php?id=4852

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	20	0.0	5.0	25

Subject objectives

- Understanding of the genetic foundations of human behavior.
- Knowledge and understanding of the neurogenetic basis of interindividual and sex differences in the context of differential susceptibility to criminal behavior.
- Knowledge of the issue of genotypeenvironment correlation and interaction.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[KRYMMU2_UW01] The graduate utilizes theoretical knowledge in the field of criminology and the related scientific disciplines to analyze and interpret problems connected with widely understood crime	Is able to demonstrate the relationship between criminal behavior and the genetic characteristics of the individual committing the offense.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
[KRYMMU2_KK01] The graduate is aware of the level of his/her knowledge and skills, and also understands the need of lifelong learning	Is able to assess their own knowledge of the genetics of behavior based on feedback and to identify directions for further development.	[SK1] oral statement/conversation/ discussion
[KRYMMU2_WG01] The graduate demonstrates widened knowledge about legal science and related penal sciences, their the place in the system of sciences and mutual relation	Demonstrates advanced knowledge of behavioral genetics as part of a broader understanding of human nature and the biological foundations of antisocial behavior.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion

Subject contents	Theoretical foundations of behavioral genetics and research on personality development. Behavioral genetics in historical and philosophical perspective. Research methods in behavioral genetics. The contribution of genetic and environmental factors to the overall phenotypic variability of traits or behaviors. Genotypeenvironment interaction and correlation. The role of experience and learning in shaping behavior. Heritability of personality traits. Epigenetics in behavioral genetics. Experimental research on the mechanisms of personality development and behavioral genetics. Genetic studies in psychiatry and psychology. Genetic determinants of personality disorders, anxiety and stress-related disorders, addictions, and schizophrenia. Personality research molecular methods (dopamine receptor gene polymorphism, serotonin transporter gene). Research methods in behavioral genetics twin studies, family analyses, adoption method. Additive and non-additive variance. Molecular studies of temperament.
Prerequisites and co-requisites	
Assessment methods and criteria	

Subject passing criteria	Passing threshold	Percentage of the final grade
quizzes	51.0%	70.0%
discussions	51.0%	30.0%

Recommended reading	Basic literature	• McGuffin P. 2001. Genetyka zachowania. PWN. • Oniszczenko W. 2005. Genetyczne podstawy ludzkich zachowań. Przegląd badań w populacji polskiej. Gdańskie Wydawnictwo Psychologiczne. • Sadowski B. 2005. Biologiczne mechanizmy zachowania się ludzi i zwierząt. PWN.
	Supplementary literature	• Dragan W.Ł., Oniszczenko W. 2008. Genetyka zachowania w psychologii i psychiatrii. Wydawnictwo Naukowe Scholar. • Oniszczenko W. 2000. Elementy genetyki zachowania. [W:] Strelau J. (red.). Psychologia. Podręcznik akademicki. Podstawy psychologii (t. 1, s. 205 - 226). Gdańsk: Gdańskie Wydawnictwo Psychologiczne. • Zagrodzka J., Górska T., Grabowska A. (red.) 2006. Mózg a zachowanie. PWN. • Oniszczenko W. 1997. Genetyczne podstawy temperamentu. Warszawa, Oficyna Wydawnicza Wydziału Psychologii Uniwersytetu Warszawskiego.
	eResources addresses	
Example issues/ example questions/ tasks being completed		• discussions Topic: Which behavioral traits resist explanation from a neurogenetic perspective? • tests (multiple-choice question) Indicate gene variants associated with increased susceptibility to aggressive behavior.
Work placement	Not applicable	

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