

Progress in the Neurobiology of Communication and Language

Code: 45529
ECTS Credits: 6

2025/2026

Degree	Type	Year
Trastornos de la Comunicación y del Lenguaje	OB	1

Contact

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Teachers

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Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

No prerequisites are needed.

Objectives and Contextualisation

The objective of the subject is to provide current knowledge to students of functional neuroanatomy and the neurochemistry of communication and language disorders. They will work out questions that require understanding the nature of the genetic and epigenetic mechanisms of the various disorders and analyzing the importance of the relationship between the genetic factors and the protective and risk environmental factors. Furthermore, it is intended that students understand the capabilities of brain development throughout the life cycle and the functional reorganization dependent on experience. You will also acquire skills and competencies related to the critical reading of scientific publications and communication information on the neurobiology of communication and language.

Learning Outcomes

1. CA02 (Competence) Critically analyse research data in the neurobiology of communication and language disorders.
2. CA03 (Competence) Clearly communicate information about the neurobiology of communication and language disorders to the specialist public and the general public.
3. CA04 (Competence) Make decisions autonomously in the context of the neurobiology of communication and language.
4. KA04 (Knowledge) Distinguish between the relevance and adequacy of research methods and designs in the context of the neurobiology of communication and language disorders.
5. KA05 (Knowledge) Scientifically analyse the limitations and biases of theories in the field of neurobiology of communication and language disorders.
6. SA04 (Skill) Critically interpret scientific publications in the field of neurobiology of language and communication.
7. SA05 (Skill) Write scientific reports in the field of neurobiology of communication and language disorders.
8. SA06 (Skill) Use documentary sources to obtain relevant information in the field of neurobiology of communication and language.

Content

- Functional Neuroanatomy of Language and Communication
 - Genes, Language and Communication
 - Brain Development and Plasticity
 - Neurochemical Alterations in Language and Communication Disorders

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
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Type: Directed			
Expository classes	30	1.2	CA02, KA04, KA05, SA04, SA06, CA02
Oral presentations	1.5	0.06	CA03, CA04, CA03
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Type: Supervised			
Tutorial	7.5	0.3	
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Type: Autonomous			
Personal study	40.5	1.62	CA02, KA04, KA05, SA04, SA06, CA02
Preparation of oral presentation	7	0.28	CA03, CA04, CA03
Preparation of written works	15	0.6	CA02, CA03, CA04, KA04, KA05, SA04, SA05, SA06, CA02
Reading articles and other scientific documents	40.5	1.62	CA02, KA04, SA04, SA06, CA02
Search for documentation in journals, books and other documentation sources	8	0.32	CA02, SA04, SA06, CA02
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The teaching methodology is based on different activities. Depending on the situation, active

lectures or seminars will be held and supervised independent activities will be carried out:

Use of artificial intelligence:

In this subject, the use of Artificial Intelligence (AI) technologies is allowed

of the development of the work, provided that the final result reflects a significant contribution

of the student in the analysis and personal reflection. The student must clearly identify which parts

have been generated with this technology, specify the tools used and include a critical consideration on

how these have influenced the process and the final result of the activity. The lack of transparency

in the use of AI will be considered a lack of academic honesty and may lead to a penalization in the

grade of the activity, or greater sanctions in serious cases.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continuous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
EV1: Critical analysis of bibliographic sources	25	0	0	CA02, KA04, KA05, SA04
EV2a: Bibliographic search results	15	0	0	CA02, CA04, SA04, SA06
EV2b: Written review work (maximum 5 pages)	30	0	0	CA02, CA03, CA04, KA04, KA05, SA04, SA05, SA06
EV3: Oral presentation and defense of the revision work	30	0	0	CA03, CA04

The evaluation of the subject will be carried out following the "Evaluation Guidelines for the Degrees of the Faculty of Psychology", which can be found at <https://www.uab.cat/web/estudiar/graus/graus/evaluacions-1345722525858.html>, and based on various evidence of learning:

EV1: Critical analysis of scientific bibliographic sources (25% of the final grade). Written and in group. S7 will be submitted. The return will be S8 in specific rubric format.

EV2: Preparation of a work on a relevant issue in the Neurobiology of Hearing, Language and Communication (40% of the final grade): Written and Individual.

EV2a: Results of the bibliographic search (4 articles) (10%) S9 will be submitted. The return will be the same week 9 in rubric format.

EV2b: Preparation and submission of a written report on a topic in Neurobiology of Hearing, Language and Communication of the chosen topic (30%) S15 will be submitted. Return S19 in tutorial format.

Overall grade

The overall grade for the subject will be the weighted average of the scores obtained in each of the learning evidences, provided that the EV2b grade is equal to or greater than 4.

In the event that these requirements are not met, the grade on the academic transcript will be the lower value between 4.5 points and the weighted average of the grades of the continuous assessment.

Recovery

Due to its nature, EV3 cannot be recovered.

If the final grade of the Module does not reach 5 and/or the EV2b grade is less than 4, it will be necessary to recover. Recovery consists of re-elaborating EV2 (Ev2a and EV2b).

The maximum grade that can be obtained after recovery is 5 (out of 10).

EV3: Oral presentation and defense of the chosen topic (30% of the final grade). Individual. S18 will be submitted. S19 return in tutorial format.

Definition of "Not assessable"

Students who have not submitted either of the two pieces of evidence related to the Review Work (EV2a and EV2b) or who have submitted several pieces of evidence but the total weight of these is less than 40.5 of the final grade will receive the grade of "Not assessable"

Synthesis test

For students in their 2nd year or later, the same continuous assessment will be followed, therefore it is NOT expected that there will be an assessment through a single non-recoverable synthesis test.

Bibliography

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COMPLEMENTARY BIBLIOGRAPHY

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Software

Search Engine (Edge, Google, ...)

Text Editor (Word, ...)

Presentation Designer (PowerPoint, ...)

Online Teaching (Teams, ...)

UAB Virtual Campus (Moodle): Basic communication tool and material re

Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.

Name	Group	Language	Semester	Turn
(TEm) Theory (master)	1	Catalan/Spanish	first semester	afternoon

