

Course Syllabus
MBNS 691 Seminars in Neuroscience
Academic Year 2025

Course ID and Name: MBNS 691 Seminars in Neuroscience

Course Coordinator: Lecturer Dr. Ekkaphot Khongkla

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Instructors:

1. Prof. Dr. Banthit Chatsawang (Banthit.che@mahidol.ac.th)
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8. Lecturer Dr. Ekkaphot Khongkla (Ekkaphot.kho@mahidol.ac.th)

Supporting Staffs:

1. Ms. Somsong Phengsukdaeng (Somsong.phe@mahidol.ac.th)
2. Mr. Prapan Premsawat (Prapan.pre@mahidol.ac.th)

Credits: 1 (1-0-2)

Curriculum: Master of Science Program in Neuroscience (required course)

Semester offering: First semester

Pre-requisites: No

Course learning outcomes (CLOs):

Upon completion of this course, students are able to:

1. Demonstrate ethical conduct in the presentation of others' work, accurate referencing, and the development of abstracts (PLO1) / P
2. Read and critique scientific articles and deliver effective oral presentations (PLO2) / P
3. Apply neuroscientific principles to interpret experimental results and propose hypothesis or research questions (PLO3) / P
4. Engage effectively in group-based activities including class facilitator, question leader, and collaborative tasks (PLO4) / P

5. Present and discuss scientific articles by using appropriate information and communication technologies (PLO 5) / P

Alignment of teaching and assessment methods to course learning outcome:

Course learning outcome	Teaching method	Assessment method
1. Demonstrate ethical conduct in the presentation of others' work, accurate referencing, and the development of abstracts (PLO1)	1) Guidance on abstract and citation styles (2) Discussion with mentor on abstract	(1) Evaluation of abstract using a rubric (2) mentor feedback on ethical conduct during Q& A and peer review
2. Read and critique scientific articles and deliver effective oral presentations (PLO 2)	(1) Student-led selection of recent articles (2) Mentored critique preparation (3) Student presentation	(1) Oral presentation scored using a rubric (2) Engagement in Q&A discussion and Mentor evaluation using a rubric
3. Apply neuroscientific principles to interpret experimental results and propose hypothesis or research questions (PLO3)	(1) Seminar session focused on article analysis (2) Instructors prompt on result interpretation and hypothesis generation	(1) Evaluation of students' ability to interpret data during presentation (2) Q&A performance assessing application of neuroscience principles
4. Engage effectively in group-based activities including class facilitator, question leader, and collaborative tasks (PLO4)	(1) Rotating roles; facilitator, question leader, responder	(1) Assessment of facilitation and engagement during peer seminars (2) Reflection log on teamwork and communication
5. Present and discuss scientific articles by using appropriate information and communication technologies (PLO 5)	(1) Training on presentation tools (e.g. PowerPoint, data visualization software) (2) Apply online database (e.g. PubMed, Scopus)	(1) Oral presentation, In-class discussion and evaluation by a rubric (2) Assessment of slide quality and integration of digital resources

	(3) Apply citation managers (e.g. Zotero, EndNote)	(3) Mentor observation of technology use during presentation and Q&A
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Course Description:

Present and discuss articles from journals in neuroscience related to the normal functions of different nervous systems.

Course schedule: MBNS 691 and MBNS 790 Academic Year 1/2025

Date	Times	Topic/Detail	Speaker
14 Aug 2025	10.00-11.00 (online)	Course Orientation	Dr. Ekkaphot
26 Aug 2025	10.00-12.00	Special Seminar: Cellular and Subcellular Localization of G Protein Coupled Receptor: Why this is becoming an ever more important issue	Assoc. Prof. Dr. Paul Klosen University of Strasbourg, France
18 Sep 2025	09.00 - 10.25	- To be announced	MBNS 691 <i>Audri Laurrier Das</i>
	10.30 -12.00	- To be announced	MBNS 691 <i>Patcharapha Poonthawatsanti</i>
25 Sep 2025	09.00 - 10.25	- To be announced –	MBNS 790 <i>Sovaritthon Chansaengsee</i>
	10.30 -12.00	- To be announced –	MBNS 790 <i>Mananya Potima</i>
2 Oct 2025	09.00 - 10.25	- To be announced –	MBNS 790 <i>Kohsheen Baliya</i>
	10.30 -12.00	- To be announced –	MBNS 790

Date	Times	Topic/Detail	Speaker
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Students must submit the seminar topic, the abstract, and reference papers (approved by mentor) by the following due dates:

Date: 12 Sep 2025, Time: 16.30

Please email to Ekkaphot.kho@mahidol.ac.th

Email topic: Submit MBNSXXX “First name- Surname”

Seminar Room:

A special seminar at MaSHARES Co-working Space

Student seminars at A107, Institute of Molecular Biosciences

Assessment Criteria:

Assessment Criteria	Assessment Method	Scoring Rubric
Presentation (50%)	(1) Oral presentation	(1) Comprehension (2) Ability to apply knowledge to delivered presentation in a clear and engaging manner (3) Formulate and communicates future research questions (3) Well-reasoned and articulate responses during Q&A
Seminar preparation (20%)	(1) Preparation Slides (2) Meeting with assigned mentor for consultation and feedback	(1) Mentor consultation (documented by meeting report) (2) Collaborative work and responsibility in preparation

Class participation (20%)	(1) Direct observation by instructors (2) Contribution to peer discussion and Q &A sessions	(1) Active involvement during class discussions (2) Frequency and relevance of questions asked (3) Demonstrate respectful and constructive engagement with peers
Class attendant (10%)	(1) Attendance record (sign-in sheet)	(1) Number of sessions attended

Student's achievement will be graded using symbols A, B+, B, C+, C, D+, D, and F based on the criteria as follows:

Percentage	Grade	Description
85-100	A	Excellent
80-84	B+	Very good
70-79	B	Good
60-69	C+	Fairly good
50-59	C	Fair
45-49	D+	Poor
40-44	D	Very poor
< 40	F	Fall

Date revised: July 2025

MBNS 691 Seminars in Neuroscience Evaluation form

MBNS 691: Seminars in Neuroscience..... Year:..... Semester: Credit: (1-0-2)

Seminar speaker: Student ID: Date:

Seminar title:

*PLEASE USE THE RATING SCALE BELOW TO EVALUATE THE STUDENT'S PRESENTATION IN EACH

SPECIFIC AREA BY CIRCLE APPROPRIATE NUMBER ○

Evaluation Items	Unsatisfied 1	Poor 2	Fair 3	Good 4	Very Good 5
Seminar contents 50%					
Adequacy of background knowledge	1	2	3	4	5
Understanding of materials and methods	1	2	3	4	5
Adequate use/explanation of tables and graphs	1	2	3	4	5
Critical evaluation and discussion of the results	1	2	3	4	5
Proper use of professional terminology	1	2	3	4	5
Presentation performance 20%					
Quality of power point presentation	1	2	3	4	5
English proficiency	1	2	3	4	5
Ability to speak without reliance on verbatim reading notes	1	2	3	4	5
Eye-contact with audiences, avoid distracting mannerisms	1	2	3	4	5
Ability to present the topic in appropriate time (45-50 min)	1	2	3	4	5
Answering the questions 20%					
Ability to respond to questions	1	2	3	4	5
Ability to answer with appropriate thinking and logical reason	1	2	3	4	5
Ability to develop future research questions 10%					
Rationale of future research questions	1	2	3	4	5
Total (100)					

Comments, Constructive Criticism, Suggestions, and Explanation of Ratings:

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Evaluator.....