

# Fiche UE 5BNV3

## Physiopathology of sensory diseases and translational research

|  |   |                          |                                     |                                |             |
|--|---|--------------------------|-------------------------------------|--------------------------------|-------------|
| <b>Responsable</b>   | Gregory Gauvain   |                          |                                     |                                |             |
| <b>Co-responsable</b>  | Nacim Bouheraoua  |                          |                                     |                                |             |
|  |   |                          |                                     |                                |             |
| <b>Descriptif</b>  | <b>Parcours type</b>  | <b>Option</b>            | <b>Niveau</b>                       | <b>Semestre d'enseignement</b> | <b>ECTS</b> |
|  | Neurosciences   | Sciences de la Vision    | M2                                  | S3                             | 6           |
|  |   |                          |                                     |                                |             |
| <b>Modalités pédagogiques</b>  | <b>Volume horaire Cours</b>   | <b>Volume horaire TD</b> | <b>Volume horaire TP</b>            |                                |             |
|  | 35  | 6                        |                                     |                                |             |
|  |   |                          |                                     |                                |             |
| <b>Objectifs</b>   | <p>This course aim at giving an overview of the different pathological context leading to sensory defect. The physiological conditions of the diseases will be explored with an emphasis on how research advances can lead to therapeutic progress.</p>   |                          |                                     |                                |             |
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| <b>Thèmes abordés</b>  | <p>Neuropathology of diseases affecting vision: age related macular degeneration, retinitis pigmentosa, dystrophies and other retinal diseases, glaucoma, corneal diseases, usher syndrome, aging. New therapeutic avenues will be considered: cell therapy, gene therapy, implants, medical device. Finally handicap evaluation and rehabilitation techniques will be addressed.</p> |                          |                                     |                                |             |
|  |   |                          |                                     |                                |             |
| <b>Compétences acquises à l'issue de l'UE (concepts, méthodologie et outils)</b>   | <p>Thanks to the involvement of contributors from academic research, clinical medicine or the industry, participants will gain an understanding in the translational process underlining transition from fundamental research to the development of therapeutic advances.</p>   |                          |                                     |                                |             |
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| <b>Prérequis</b>   | <p>Basic knowledge in Neuroscience, This course is part of the Neuroscience program of the Master of integrative Biology. This course is taking place during the second year of the program.</p>  |                          |                                     |                                |             |
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| <b>Modalités d'évaluation/100</b>  | <b>Écrit</b>  | <b>Oral</b>              | <b>CC</b>                           | <b>Autre</b>                   |             |
|  | 70-100  | 0-30                     |                                     |                                |             |
| <p>The evaluation should be conducted through a formal written examination. However, according to the number of participant, oral presentation could be organised.</p> |   |                          |                                     |                                |             |
|  |   |                          |                                     |                                |             |
| <b>Langues utilisées</b>   | <b>Dans les cours, TD, TP</b>   |                          | <b>Dans les documents, supports</b> |                                |             |
|  | English   |                          | English                             |                                |             |
|  |   |                          |                                     |                                |             |
| <b>Localisation</b>  | Campus Pierre et Marie Curie  |                          |                                     |                                |             |