COURSE DETAIL

A MULTIDISCIPLINARY APPROACH TO PAIN

Country
Taiwan

Host Institution
National Taiwan University

Program(s)
National Taiwan University

UCEAP Course Level
Graduate

UCEAP Subject Area(s)
Psychology

UCEAP Course Number
217

UCEAP Course Suffix

UCEAP Official Title
A MULTIDISCIPLINARY APPROACH TO PAIN

UCEAP Transcript Title
APPROACHES TO PAIN

UCEAP Quarter Units
4.50

UCEAP Semester Units
3.00

Course Description

It is commonly known that the experiences of pain help both humans and animals to avoid potentially harmful situations. In recent two decades, progress in research techniques substantially helps researchers to investigate the neural mechanisms of pain. The perception and expression of pain engages the whole neural axis from the peripheral to central nervous system, and an interdisciplinary approach is needed to elucidate the whole picture of pain. How animals and humans process pain and what the influence of emotions and cognitions on pain remain largely unknown. As for the aspect of investigation, how researchers approach pain in animals and humans is a critical issue. What is even more challenging is the neural basis for chronic pain, which results from the aberrant interactions among the bottom-up pain transmission, descending pain inhibition and top-down emotional and cognitive modulations. In this course, we will discuss the neural mechanisms responsible for both physiological and pathological pain and discuss future research ideas, which would provide a promising direction for conquering pain in the future.

Language(s) of Instruction

Host Institution Course Number
GIBMS7117

Host Institution Course Title
A MULTIDISCIPLINARY APPROACH TO PAIN

Host Institution Course Details
https://ceiba.ntu.edu.tw/1051GIBMS7117_

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Graduate Institute of Brain and Mind Sciences

Course Last Reviewed

2022-2023