

MVIMG (Molecular Virology, Immunology and Medical Genetics)#: 7470
Neuromuscular Biology and Disease, Spring Semester 2015

Amyotrophic lateral sclerosis

Course Instructors: Brian Kaspar, Arthur Burghes and Denis Guttridge
Thursdays 2:30PM-3:30PM, Parks Hall 103

Course Outline (Fourteen 55 minute lectures or discussions)

Jan 15	Amyotrophic lateral sclerosis (ALS) Clinical Aspects	Adam Quick MD
Jan 22	On living with ALS ALSA local chapter chair	Marlin Seymour
Jan 29	ALS Genetics overview	Arthur Burghes Ph.D.
Feb 5	ALS caused by an expansion repeat in C9ORF72- an in depth analysis	Kathrin Meyer Ph.D.
Feb 12	Non Cell Autonomous aspects in ALS	Brian Kaspar Ph.D.
Feb 19	Models of ALS in Zebrafish, Flies and Worms	Christine Beattie Ph.D.
Feb 26	RNA and the link to Motor Neuron Disease	Stephen Kolb MD, Ph.D.
Mar 05	Small molecule screen in ALS	Glen Lin Ph.D.
Mar 12	Induced pluripotent stem cells and there utility in ALS research	Invited talk TBA
<i>Spring Break</i>		
Mar 26	Debate: Is Everyone right or wrong in ALS All participate	Arthur Burghes Ph.D. and Brian Kaspar Ph.D.
Apr 2	Mouse Models and Developing a Therapy for ALS	Kevin Foust Ph.D
Apr 10	Grant preparation proposal Discussion Bring idea and discuss	Brian Kaspar Arthur Burghes
Apr 16	Dogs developing ALS	Sarah Moore DVM, DACVIM

Course Materials

Suggested reading to support lectures or discussion will be posted on Carmen before each lecture. Students are encouraged to read the reading material listed for each class.

Method of Evaluation

Attendance will be recorded for each class and 10% of the overall grade will be based on attendance and participation. One paper due on the last day of class (April 16), consisting of a research proposal, will count for 70% of the overall grade. In order to assist students with learning the writing process for a

research proposal, an outline with specified subheadings will be due at 9 AM on Monday, April 8th uploaded in Carmen Dropbox (under Activities), and will count for 20% of the overall grade. The outline will be edited by the instructors within a few days and returned to each student for use in preparing their final paper.

Contact information:

burghes.1@osu.edu

Brian.Kaspar@nationwidechildrens.org