Cellular and Molecular Neuroscience

Instructor:	Thomas Kuhn, 907-474-5752, <u>tbkuhn@alaska.edu</u> Department of Chemistry and Biochemistry Reichardt Building Room 184		
Lecture:	MWF	11:45 am	12:45 pm (YES, you can bring your lunch)
Office Hours:	immediately following lecture or arrange via phone/email		
Textbooks:	either one of the three text books will be adequate for the course		
From Molecules to Networks: An Introduction to Cellular and Molecular Neuroscience (3rd Edition, 2014); Academic Press ISBN-13: 978-0123971791 or ISBN-10: 0123971799 John H. Byrne, Ruth Heidelberger, M. Neal Waxham;			

From Neuron to Brain (5th Edition); Sinauer Associates John G. Nicholls et al, **ISBN-13:** 978-0878936090 or **ISBN-10:** 0878936092

Neuroscience (5th Edition); Sinauer Associates Dale Purves et al., **ISBN-13:** 978-0878936953 or **ISBN-10:** 0878936955

Additional Reading: scientific research articles and review articles (PDT5PDT5PDBrtilacadrd)0 1 162.02 368.45

- To understand membrane potential and excitability
- To understand neuronal action potentials
- To understand synaptic transmission
- To understand structure/function aspects of voltage and ligand-gated ion channels
- To understand G protein signaling
- To understand early brain development (gastrulation, neurulation)

Ethical Considerations:

advisor will be notified of this failing grade and

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