

December 7, 2009

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Dr. Matevz Arko

Visiting Fulbright Scholar here until June

Dr Matevz (pronounced Matt-ee-oash) Arko is a visiting Fulbright scholar from Slovenia. He received his DVM degree in 1998 from the University of Ljubljana, Slovenia, before completing a PhD in pharmacology in 2004 in the Department of Medicine at the University of Ljubljana. From 2005 to 2007 Dr. Arko participated in a post doctoral fellowship at the University of Tokyo, Japan, where he was involved in studying the phosphorylation rate of the dihydropyridine receptor in the skeletal muscle of treadmill-exercised horses.

His current position involves teaching histology and embryology to medical students at the University of Ljubljana, and he also practices as a bovine veterinarian. In addition to Slovenian and English, Dr. Arko also speaks German and Croatian. He enjoys reading, skiing and playing the accordion. He will be working at Oregon State University until June 2010, participating in research projects with Dr. Erica McKenzie focusing on dantrolene sodium and anesthetic myositis in horses.

Calendar

- Monday, December 7**
 ♦Finals week
 ♦Nothing scheduled at this time.
- Tuesday, December 8**
 ♦No SCAVMA pet food sale today. Sale on Friday this week.
 ♦Physiology rounds, M202, 8:00-9:00
 ♦WVMA seminar: "Stem cell therapy" presented by Dr. Scott Gustafson for students, faculty and outside veterinarians. Food provided. M102, 6:30-8:30
- Wednesday, December 9**
 ♦House Officer seminar rounds, M197, 8:00-8:30
 ♦Necropsy rounds, M125 (necropsy gallery), 8:30-9:30
 ♦AAEP meeting, LA hospital, 12:15-12:50
- Thursday, December 10**
 ♦College of Health and Human Sciences 8th Annual Winterfest buffet lunch for faculty and staff (RSVPs were due Friday, Dec. 4). Women's Building, 11:30-1:00
- Friday, December 11**
 ♦Cytology rounds, M125, 8:00-9:00
 ♦SCAVMA pet food sale today only this week, SCAVMA store, 12:00-1:00
 ♦Goodbye to Dr. Bulmer, cake will be served, M269, 2:00-3:00
- Monday, December 14**
 ♦Nothing scheduled at this time.
- Tuesday, December 15**
 ♦Physiology rounds, M202, 8:00-9:00
 ♦SCAVMA pet food sale today only this week, SCAVMA store, 12:00-1:00
 ♦CVM Winter Social for Faculty and staff (RSVPs are due by Friday, Dec. 11), Alumni Center, 5:30-8:30
- Wednesday, December 16**
 ♦House Officer rounds, M202, 8:00-8:30
 ♦Necropsy rounds, M125 (necropsy gallery), 8:30-9:30
 ♦Equine Reproduction Workshop, M208 and M202, 7:00-1:00
 ♦AAEP meeting, LA hospital, 12:15-12:50
- Thursday, December 17**
 ♦Equine Reproduction Workshop, M208 and M202, 7:00-1:00
- Friday, December 18**
 ♦Cytology rounds, M125, 8:00-9:00
 ♦Equine Reproduction Workshop, M208 and M202, 7:00-1:00
- Saturday, December 19**
 ♦Equine Reproduction Workshop, M208 and M202, 7:00-1:00

Dr. Jin to lead koi herpesvirus research project

The Associated Koi Clubs of America's (AKCA) letter to club representatives and AKCA club members announced the selection of Oregon State University as a recipient of funds for a koi herpesvirus (KHV) research project which is under the direction and supervision of Ling Jin, PhD, DVM. Dr. Jin is the principal investigator and comes highly qualified as an Assistant Professor of Virology. Co-investigators who will be joining her in the project include Drs. Michael Kent, Jerry Heidel, and Tim Miller-Morgan.

Nearly \$80,000 in funds have been committed including the initial grant payment of \$30,000. The project will extend over 26 months with periodic reports on the project to appear in KOI USA magazine.



Upcoming class reunion for OSU-WSU Classes of 1984 and 1985

The classes of 1984 and 1985 will be having a class reunion for Oregon State University and Washington State University DVM alumni on July 9-11, 2010. It will be held at Suncadia Lodge in Cle Elum, Wash. For information contact either Carin Smith at carin@smithvet.com (Class of 1984) or Sue Wedam at cwdr@embarqmail.com (Class of 1985). You can also check out the reunion Facebook page, "OSU-WSU Veterinary Reunion '84 & '85 classes."

Visiting students completing clinical year at OSU CVM

Two more visiting students are completing their clinical year with OSU CVM. Ed Cornelia and Jin An are both from Ross University and will be finishing their rotations in early January 2010. We wish them both the best of luck.



Ed Cornelia



Jin An

Dr. Jin and Kathleen Eide attend ASV Conference in British Columbia

Kathleen Eide and Dr. Ling Jin attended the 28th American Society for Virology (ASV) 2009 annual meeting held at the University of British Columbia, Vancouver, BC, Canada July 11-15, 2009. ASV is an international meeting for virology and is held each year in July. Kathleen Eide is a PhD student from MCB program and working on Herpesvirus in Dr. Jin's lab. She was awarded with Graduate Travel Grant for presenting their work on "Preventing Ocular HSV-1 Replication using Antisense Phosphorodiamidate Morpholino Oligomers," which is published in *Antiviral Research* (*Antiviral Res.* 84:131-141).

WVC Scholarship awarded to Karyn Zittel

Karyn Zittel, Class of 2011, is the 2010 recipient of the Western Veterinary Conference Scholarship that consists of a \$1,000 scholarship and complimentary registration, lodging, airfare and daily stipend to attend the 2010 Western Veterinary Conference in Las Vegas, Nev., Feb. 14-18. One award is given in each of the 32 North American veterinary colleges. The selection is based on scholastic aptitude, potential to assume leadership roles, and financial need. At the conference, students are introduced to leaders from the AVMA and other boards, and are given VIP treatment. The students are also recognized at an awards breakfast Tuesday during the conference.



Karyn Zittel

Karyn is past president of the CVM Student Ambassadors, and is active in several student clubs. She has organized several outreach activities to promote the College and the veterinary profession, and has twice received the Class of 2011 Community Outreach Award by a vote of her classmates.

Students: Good luck with finals and happy holidays!

Student Clubs update

An orientation meeting for CVM student clubs was held Friday, December 5. Representatives from active clubs and representatives for companies attended. Dr. Tornquist encouraged clubs to complete the OSU registration process so that clubs may receive benefits such as website listing, reduced cost for reserving rooms at the MU for events, and use of an MU student club account. She reviewed the rules and expectations for clubs (also posted on the CVM website) and asked what clubs would like from CVM and the Dean's Office for support. A discussion regarding event scheduling and reserving rooms for meetings led to an agreement to research options for creating a college master calendar that is accessible to all.

Eleven clubs have applied for and have received recognized status. Four clubs still have some online updating to complete. At the meeting it was announced that five clubs will soon apply for recognition: the Wildlife Disease Association – Student Chapter; the American Association of Feline Practitioners – Student Chapter; the American Animal Hospital Association – Student Chapter; the Society for Theriogenology and the Integrative Medicine Club, which will replace past clubs named Holistic Medicine and Alternative Medicine.

Past clubs that seem to be inactive are: Animal Behavior Club, Canine Club, OSU Student Chapter of American Society of Lab Animal Practitioners, Pet Therapy Club and Student Vet Emergency/Critical Care Club. If students are interested in activating these inactive clubs, contact Debrah Rarick in the Dean's Office.

For information about student clubs see the CVM website link <http://oregonstate.edu/vetmed/students/current/student-clubs>. To form a student club, see the OSU website: <http://oregonstate.edu/sli/student-organizations> and contact the Dean's Office for assistance registering.

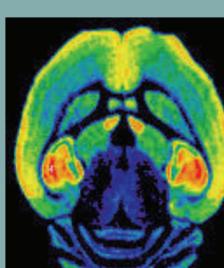


International Veterinary Student Association club on a club-sponsored trip to Nicaragua.

Research Labs-Current Projects

Dr. Kathy Magnusson Lab

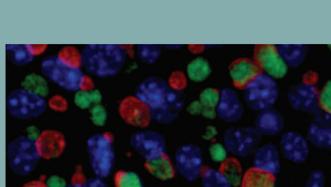
The research lab of Dr. Kathy Magnusson is interested in understanding why humans and animals are more forgetful as they get older. They have been focused on characterizing the age-related changes that occur in a glutamate receptor, the N-methyl-D-aspartate receptor, within the brain. This receptor is very important for the formation of new memories. The lab has found relationships between declines in the abundance of specific subunits that make up the receptor and problems with long-term, spatial memory. Graduate students Siba Das and Brenna Brim are currently working on manipulating the expression of these subunits, with the use of gene therapy and short-interfering RNAs (siRNA), in order to make older mice better at remembering and to see how important these subunits are to young mice that are learning new information. Recent supporters of the laboratory include the National Institute on Aging at the National Institutes of Health and the Linus Pauling Institute and College of Veterinary Medicine at Oregon State University.



Pseudocolored image of [3H]-glutamate binding to a horizontal section of mouse brain.

Dr. Dan Rockey Lab

Brendan Jeffrey will present his recent work on recombination in chlamydia. Brendan heads an effort in the Rockey laboratory to mesh bioinformatics, genome sequencing, and interactions with clinical laboratories to examine chlamydial biology.



Chlamydia within mammalian cells.

The laboratory has recently published work on these subjects in the journals *Infection and Immunity* and *Antimicrobial Agents and Chemotherapy*.

Research Grants and Awards

Dr. Susan Tornquist has been awarded \$3,456 by the North West Camelid Valley Foundation (formerly Willamette Valley Llama Foundation) for her proposal "Retro Analysis of Anemia in Camelids."



Dr. Susan Tornquist

Dr. Michelle Steinauer has received an NIH grant for her proposal "Pathogen Adaptation to Novel Hosts through Introgressive Hybridization."



Dr. Michelle Steinauer

The first objective is to determine whether hybridization and gene introgression between pathogen species can lead to the colonization of novel hosts. Or, in other words, can a pathogen species acquire the genes necessary to invade a novel host by interbreeding with another pathogen species? The second objective is to identify the genomic regions associated with host colonization. This project is designed to experimentally determine if hybridization and gene introgression can lead to adaptive evolution of pathogen species. Is gene introgression a mechanism for the invasion of novel hosts? This project will address a fundamental question in evolutionary biology that has major implications for the emergence of infectious disease.

A potentially important outcome of hybridization is gene flow across a species boundary that leads to novel adaptations in pathogens. Although theory suggests that adaptive introgression via hybridization is an important evolutionary mechanism, it has rarely been demonstrated. The hypothesis that *hybrids can introduce traits into the parental species that allow colonization of novel vector hosts* will be tested using selection experiments on hybrid lines of schistosomes. I will examine whether this process will give two schistosome species the ability to infect a vector host species to which the other was previously adapted. In other words, will each schistosome species acquire the ability to infect each other's host? This experiment will determine if the genes that allow evasion of the host immune system and those that overcome physiological limitation can be acquired and maintained in a foreign genome.

Drs. Elena Gorman and Christiane Lohr have been awarded a joint LL Stewart Faculty Development Award of \$2,200 towards development of a questions database and web-based testing module for the preclinical assessment examination for the professional veterinary medical students. This exam is given at the beginning of their junior year as they transition into their clinical third and fourth years. The title is: Pre-clinical assessment examination for professional veterinary medical students.



Dr. Christiane Lohr



Dr. Elena Gorman

Research Paper presentations

Date	Person	Place	Event	Title
Aug 2009	Dan Rockey	Pullman, WA	Washington State University, seminar, invited speaker	Recombination in Chlamydia
Oct 2009	Sue Tornquist	San Diego, CA	American Association of Veterinary Laboratory Diagnosticians meeting	on <i>Mycoplasma haemolamae</i>
Oct 2009	Patrick Chappell	Chicago, IL	Society for Neuroscience Annual Meeting	Estrogen directly modulates temporal patterns of GPR54 expression in GnRH secreting GT1-7 cells
Oct 2009	A. Fry	Pittsburgh, PA	Biomedical Engineering Society 2009 Annual Fall Scientific Meeting	Synthesis and Anticoagulant Function of Heparin Containing Block Copolymers on Polystyrene Microspheres
Oct 2009	Kathy Magnusson	Chicago, IL	Society for Neuroscience Annual Meeting	Differential effects of marginal zinc deficiency on performance of you and old mice in reversal learning in a spatial memory task
Oct 2009	Susan Piripi	Minneapolis, MN	Western Conference of Veterinary Diagnostic Pathologists 2009 Meeting	3 presentations: Chondrodysplasia in Texas sheep; Porcine nutritional osteopetrosis; Osteopetrosis in Polypay lambs
Nov 2009	A. Fry	Nashville, TN	American Institute of Chemical Engineers Annual Meeting	Synthesis and Anticoagulant Function of Heparin Containing Block Copolymers on Polystyrene Microspheres
Nov 2009	Debbie Mustachich	San Francisco, CA	Society for Free Radical Biology and Medicine, 16th Annual Meeting	Beta-oxidation of alpha-tocopherol occurs in mitochondria of rats