



LIFE SCIENCE NEWS

Published by the Institute of Arctic Biology

Monday, 7 December 2015

Announcements

[International LTER Open Science Meeting](#). Oct. 2016, Kruger Nat'l Park, South Africa.

[IAB Life Science Hour seminars](#) will resume January 15, 2016. Previous seminar videos are online.

Events and Seminars

No events scheduled.

Travel

- **Curry, Tracie**, 12/9/15 - 12/10/15, Anchorage, AK, Conduct interviews for ArcSEES Project
 - **Drown, Devin**, 12/1/15 - 12/11/15, Bloomington, IN, Working with collaborators at Indiana University
 - **Euskirchen, Eugenie**, 12/11/15 - 12/18/15, San Francisco, CA, Attend NGEE All Hands Meeting and AGU
 - **Genet, Helene**, 12/12/15 - 12/18/15, San Francisco, CA, Attend Permafrost RCN and AGU; 12/13/15 - 12/18/15, San Francisco, CA, Attend RCN Permafrost Conference and AGU
 - **Halas, Gabriela**, 12/3/15 - 12/7/15, Point Lay, AK, Field work
 - **Harms, Tamara**, 12/13/15 - 12/19/15, San Francisco, CA, Presenting at AGU
 - **McGuire, Dave**, 12/12/15 - 12/18/15, San Francisco, CA, Attend Permafrost Carbon Network and AGU
 - **Sivy, Kelly**, 10/30/15 - 12/31/15, Delta Junction, AK, Field work at study sites in/around Delta Junction
 - **Walker, Skip**, 12/13/15 - 12/19/15, San Francisco, CA, Present at AGU meeting
- **Abels, Mike**, 12/13/15 - 12/19/15, San Francisco, CA, AGU Meeting
 - **Barnes, Brian**, 12/5/15 - 12/8/15, Maryland, Attending 2015 INBRE PI/PC Meetings - NIH
 - **Biebuyck, Brett**, 12/13/15 - 12/19/15, San Francisco, CA, Attend AGU
 - **Breed, Greg**, 12/10/15 - 1/15/16, Monterey, CA and San Francisco, CA, Attend at Marine Mammal Conference and collaborate at Hopkins Marine Station
 - **Bret-Harte, Donie**, 12/13/15 - 12/19/15, San Francisco, CA, Attend AGU
 - **Brinkman, Toddd**, 12/8/15 - 12/8/15, Fort Yukon, AK, Meet with Council of Athabascan Tribal Governments
 - **Cook, Christopher**, 12/13/15 - 12/18/15, San Francisco, CA, Present data at AGU

Grants and Awards

Go to the IAB funding opportunities webpage, www.iab.uaf.edu/research/funding_opps.php, for the latest on available grants, scholarships, fellowships, and awards.

Life Science Hour Seminars in the Murie Auditorium, Fridays 3-4 p.m.
No seminar scheduled this week.

IAB in the News

12/1/15: EOS.org

[Alaskan Wildfires Influence Permafrost Recovery](#)

Dana Brown, Knut Kielland, Eugenie Euskirchen, Roger Ruess, Bonanza Creek Long-Term Ecological Research program

12/3/15: Anchorage Press

[We Are All Related Here](#)

Robin Bronen

12/7/15: Alaska Dispatch News

[In rural Alaska, a new approach to fighting suicide emerges](#)

Stacy Rasmus, Center for Alaska Native Health Research

New IAB Publications

Legend: **f**=faculty, **r**=research scientist, **s**=staff, **e**=emeritus, **a**=affiliate, **g**=grad student, **p**=post-doc, **u**=undergrad student, **h**=high school student

Parker, J., Fowler, N., Walmsley, M.L., Schmidt, T., Scharrer, J., Kowaleski, J., Grimes, T., Hoyos, S., and **Chen, J. (f)** (2015). Analytical Sensitivity Comparison between Singleplex Real-Time PCR and a Multiplex PCR Platform for Detecting Respiratory Viruses. PLoS ONE 10:e0143164EP - [IAB 4009].

Lewis, J.M., Grove, T.J., and **O'Brien, K.M. (f)** (2015). Energetic costs of protein synthesis do not differ between red- and white-blooded Antarctic notothenioid fishes. Comparative Biochemistry and Physiology. Part A, Molecular & Integrative Physiology 187:177-183 [IAB 4010].

Teigen, L.E. (g), **Orczewska, J.I. (g)**, **McLaughlin, J. (g)**, and **O'Brien, K.M. (f)** (2015). Cold acclimation increases levels of some heat shock protein and sirtuin isoforms in threespine stickleback. Comparative Biochemistry and Physiology. Part A, Molecular & Integrative Physiology 188:139-147 [IAB 4011].

Mueller, I. (g), **Hoffman, M. (s)**, **Dullen, K. (g)**, and **O'Brien, K. (f)** (2014). Moderate elevations in temperature do not increase oxidative stress in oxidative muscles of Antarctic notothenioid fishes. Polar Biology 37:311-320 [IAB 4012].

O'Brien, K.M. (f), **Mueller, I.A. (g)**, **Orczewska, J.I. (g)**, **Dullen, K.R. (u)**, and **Ortego, M. (g)** (2014). Hearts of some Antarctic fishes lack mitochondrial creatine kinase. Comparative Biochemistry and Physiology. Part A, Molecular & Integrative Physiology 178:30-36 [IAB 4013].

Woo, D.K., **Jung, Y.W. (f)**, O'Brien, K. M., and **Poyton, R. O. (f)** (2013). Molecular characterization of a mitochondrial mutant carrying point mutations in the 3' untranslated region of the COX3 mRNA from *Saccharomyces cerevisiae*. Animal Cells and Systems 17:80-87 [IAB 4014].

Mueller, I.A. (g), Devor, D.P., Grim, J.M., Beers, J.M., Crockett, E.L., and **O'Brien, K.M. (f)** (2012). Exposure to critical thermal maxima causes oxidative stress in hearts of white- but not red-blooded Antarctic notothenioid fishes. Journal of Experimental Biology [IAB 4015].

Armstrong, J.J. (g), **Takebayashi, N. (f)**, Sformo, T., and **Wolf, D.E. (f)** (2015). Cold tolerance in *Arabidopsis kamchatica*. American Journal of Botany 102:439-448 [IAB 4016].

Wolf, D.E. (f), **Steets, J.A. (p)**, **Houliston, G.J. (p)**, and **Takebayashi, N. (f)** (2014). Genome size variation and evolution in allotetraploid *Arabidopsis kamchatica* and its parents, *A. lyrata* and *A. halleri*. AoB Plants [IAB 4017].

Robertson, Amanda L. (g) and **Wolf, Diana E. (f)** (2012). The role of epigenetics in plant adaptation. Trends in Evolutionary Biology 4: [IAB 4018].

Paape, T., **Miyake, T. (p)**, **Takebayashi, N. (f)**, **Wolf, D. (f)**, and Kohn, J.R. (2011). Evolutionary Genetics of an S-Like Polymorphism in Papaveraceae with Putative Function in Self-Incompatibility. PLoS ONE 6:e23635EP - [IAB 4019].

Abbott, B.W. (g) and **Jones, J.B. (f)** (2015). Permafrost collapse alters soil carbon stocks, respiration, CH₄, and N₂O in upland tundra. Global Change Biology 21:4570-4587 [IAB 4020].

Abbott, B.W. (g), **Jones, J.B. (f)**, Godsey, S.E., Larouche, J.R., and Bowden, W.B. (2015). Patterns and persistence of hydrologic carbon and nutrient export from collapsing upland permafrost. Biogeosciences 12:3725-3740 [IAB 4021].

Rinehart, A.J. (g), **Jones, J.B. (f)**, and **Harms, T.K. (f)** (2015). Hydrologic and biogeochemical influences on carbon processing in the riparian zone of a subarctic stream. Freshwater Science

34:222-232 [IAB 4022].

Rüegg, J., Dodds, W.K., Daniels, M.D., Sheehan, K.R., Baker, C.L., Bowden, W.B., Farrell, K.J., Flinn, M.B., **Harms, T.K. (f)**, **Jones, J.B. (f)**, Koenig, L.E., Kominoski, J.S., McDowell, W.H., Parker, S.P., Rosemond, A.D., Trentman, M.T., Whiles, M., and Wollheim, W.M. (2015). Baseflow physical characteristics differ at multiple spatial scales in stream networks across diverse biomes. 1-18 [IAB 4023].

Abbott, B.W. (g), Larouche, J.R., **Jones, J.B. (f)**, Bowden, W.B., and **Balsler, A.W. (g)** (2014). Elevated dissolved organic carbon biodegradability from thawing and collapsing permafrost. *Journal of Geophysical Research: Biogeosciences* 119:2049-2063 [IAB 4024].

Benowitz-Fredericks, Z.M., Schultner, J., and **Kitaysky, A.S. (f)** (2015). Effects of Prenatal Environment on Phenotype Are Revealed by Postnatal Challenges: Embryonic Hormone Exposure, Adrenocortical Function, and Food in Seabird Chicks. *Physiological and Biochemical Zoology* 88:607-623 [IAB 4025].

Harms, T.K. (f) and **Jones, J.B.J. (f)** (2012). Thaw depth determines reaction and transport of inorganic nitrogen in valley bottom permafrost soils: Nitrogen cycling in permafrost soils. *Global Change Biology* 18:2958-2968 [IAB 4026].

Gustafson, Sally J., **Dunlap, Kriya L. (f)**, McGill, Colin M., and Kuhn, Thomas B. (2012). A Nonpolar Blueberry Fraction Blunts NADPH Oxidase Activation in Neuronal Cells Exposed to Tumor Necrosis Factor (alpha). *Oxidative Medicine and Cellular Longevity* 2012: [IAB 4027].

Newman, J.R. (g), **Wagner, D. (f)**, and **Doak, P. (f)** (2015). Impact of extrafloral nectar availability and plant genotype on ant (Hymenoptera: Formicidae) visitation to quaking aspen (Salicaceae). *The Canadian Entomologist FirstView*:1-7 [IAB 4029].

Finegan, B., Peña-Claros, M., de Oliveira, A., Ascarrunz, N., **Bret-Harte, M.S. (f)**, Carreño-Rocabado, G., Casanoves, F., Díaz, S., Eguiguren Velepucha, P., Fernandez, F., Licona, J.C., Lorenzo, L., Salgado Negret, B., Vaz, M., and Poorter, L. (2015). Does functional trait diversity predict above-ground biomass and productivity of tropical forests? Testing three alternative hypotheses. *Journal of Ecology* 103:191-201 [IAB 4030].

Okano, K. (g) and **Bret-Harte, M.S. (f)** (2015). Warming and neighbor removal affect white spruce seedling growth differently above and below treeline. *SpringerPlus* 4:79 [IAB 4031].

Shaver, G.R., Laundre, J.A., **Bret-Harte, M.S. (f)**, **Chapin III, F.S. (e)**, Giblin, A.E., Gough, L., Hobbie, S., Kling, G., **Mack, M.C. (r)**, Moore, J., Nadelhoffer, K., Rastetter, E.B., and Schimel, J. (2014). Chapter 5. Terrestrial Ecosystems. In: Hobbie, J.E. and Kling, G.W., eds., [IAB 4032].

Zamin, T.J., **Bret-Harte, M.S. (f)**, and Grogan, P. (2014). Evergreen shrubs dominate responses to experimental summer warming and fertilization in Canadian mesic low arctic tundra. *Journal of Ecology* 102:749-766 [IAB 4033].

DeMarco, J., **Mack, M.C. (r)**, **Bret-Harte, M.S. (f)**, Burton, M., and **Shaver, G.R. (r)** (2014). Long-term experimental warming and nutrient additions increase productivity in tall deciduous shrub tundra. *Ecosphere* 5:art72 [IAB 4034].

DeMarco, J., **Mack, M.C. (r)**, and **Bret-Harte, M.S. (f)** (2014). Effects of arctic shrub expansion on biophysical vs. biogeochemical drivers of litter decomposition. *Ecology* 95:1861-1875 [IAB 4035].

Zheng, Jinghui, Schnurr, Theresia, **Dunlap, Kriya (f)**, Das, Deben, and **Duffy, Lawrence (f)** (2014). Effect of Zinc Oxide Nanoparticles on Neuroblastoma SH-SY5Y Cells. *American Journal of Biochemistry and Biotechnology* 10:116-124 [IAB 4036].

Burt, Tim, Pinay, Gilles, Grimm, Nancy, and **Harms, Tamara (f)** (2013). Between the Land and the River: River Conservation and the Riparian Zone (Chapter 9) in: *River Conservation Challenges and Opportunities. Between the Land and the River: River Conservation and the Riparian Zone book*: [IAB 4037].

Harms, Tamara K. (f), Norlin, Samuel T., and **Jones, Jeremy B. (f)** (2014). Nitrogen biogeochemistry of headwater catchments underlain by discontinuous permafrost. *Teaching Issues and Experiments in Ecology* 7: [IAB 4038].

Brown, C.L. (g), Kellie, K.A., **Brinkman, T.J. (f)**, **Euskirchen, E.S. (f)**, and **Kielland, K. (f)** (2015). Applications of resilience theory in management of a moose-hunter system in Alaska. *Ecology and Society* 20: [IAB 4039].

Johansen, S.L. (g), **Iceman, K.E. (g)**, Iceman, C.R., **Taylor, B.E. (f)**, and **Harris, M.B. (f)** (2015).

Isoflurane causes concentration-dependent inhibition of medullary raphe 5-HT neurons in situ. *Autonomic Neuroscience : Basic & Clinical* 193:51-56 [IAB 4040].

Iceman, K.E. (g), Corcoran, A.E. (g), Taylor, B.E. (f), and Harris, M.B. (f) (2014). CO₂-inhibited neurons in the medullary raphe are GABAergic. *Respiratory Physiology & Neurobiology* 203:28-34 [IAB 4041].

Will, A. (g), Watanuki, Y., Kikuchi, D.M., Sato, N., Ito, M., Callahan, M., Wynne-Edwards, K., Hatch, S., Elliott, K., Slater, L., Takahashi, A., and **Kitaysky, A. (f)** (2015). Feather corticosterone reveals stress associated with dietary changes in a breeding seabird. *Ecology and Evolution* 5:4221-4232 [IAB 4042].

Mosher, B.P. (g), Taylor, B.E. (f), and Harris, M.B. (f) (2014). Intermittent hypercapnia enhances CO₂ responsiveness and overcomes serotonergic dysfunction. *Respiratory Physiology & Neurobiology* 200:33-39 [IAB 4043].

Taylor, B.E. (f), Brundage, C.M. (g), and McLane, L.H. (2013). Chronic nicotine and ethanol exposure both disrupt central ventilatory responses to hypoxia in bullfrog tadpoles. *Respiratory Physiology & Neurobiology* 187:234-243 [IAB 4044].

Taylor, B.E. (f) and Brundage, C.M. (g) (2013). Chronic, but not acute, ethanol exposure impairs central hypercapnic ventilatory drive in bullfrog tadpoles. *Respiratory Physiology & Neurobiology* 185:533-542 [IAB 4045].

Corcoran, A.E. (g), Richerson, G.B., and **Harris, M.B. (f)** (2015). Functional link between the hypocretin and serotonin systems in the neural control of breathing and central chemosensitivity. *Journal of Neurophysiology* 114:381-389 [IAB 4046].

Massey, C.A., **Iceman, K.E. (g), Johansen, S.L. (g), Wu, Y., Harris, M.B. (f), and Richerson, G.B.** (2015). Isoflurane abolishes spontaneous firing of serotonin neurons and masks their pH/CO₂ chemosensitivity. *Journal of Neurophysiology* 113:2879-2888 [IAB 4047].

Christian, Sherri L., Rasley, Brian T., Roe, Tanna, **Moore, Jeanette T. (s), Harris, Michael B. (f), and Drew, Kelly L. (f)** (2014). Habituation of Arctic ground squirrels (*Urocitellus parryii*) to handling and movement during torpor to prevent artificial arousal. *Frontiers in Physiology* [IAB 4048].

Dudley, J.P. (r), Hang'Ombe, B.M., Leendertz, F.H., Dorward, L.J., de Castro, J., Subalusky, A.L., and Clauss, M. (2016). Carnivory in the common hippopotamus *Hippopotamus amphibius*: implications for the ecology and epidemiology of anthrax in African landscapes. *Mammal Review* n/a-n/a [IAB 4049].

Corcoran, A.E. (g), Commons, K.G., Wu, Y., Smith, J.C., **Harris, M.B. (f)**, and Richerson, G.B. (2014). Dual effects of 5-HT(1a) receptor activation on breathing in neonatal mice. *The Journal of Neuroscience : the Official Journal of the Society for Neuroscience* 34:51-59 [IAB 4050].

Iceman, K.E. (g) and Harris, M.B. (f) (2014). A group of non-serotonergic cells is CO₂-stimulated in the medullary raphe. *Neuroscience* 259:203-213 [IAB 4051].

Iceman, K.E. (g), Richerson, G.B., and **Harris, M.B. (f)** (2013). Medullary serotonin neurons are CO₂ sensitive in situ. *Journal of Neurophysiology* 110:2536-2544 [IAB 4052].

Corcoran, A.E. (g), Richerson, G.B., and **Harris, M.B. (f)** (2013). Serotonergic mechanisms are necessary for central respiratory chemoresponsiveness in situ. *Respiratory Physiology & Neurobiology* 186:214-220 [IAB 4053].

Harris, M.B. (f) (2012). Rat homologues to the human post-neonatal period: Models for vulnerability to the sudden infant death syndrome. *Pediatric Pulmonology* 47:729-730 [IAB 4054].

Kammer, A.R. (g), Orczewska, J.I. (g), and O'Brien, K.M. (f) (2011). Oxidative stress is transient and tissue specific during cold acclimation of threespine stickleback. *The Journal of Experimental Biology* 214:1248-1256 [IAB 4055].

Shanley, C.S., Pyare, S., Goldstein, M.I., Alaback, P.B., Albert, D.M., Beier, C.M., **Brinkman, T.J. (f)**, Edwards, R.T., Hood, E., MacKinnon, A., McPhee, M.V., Patterson, T.M., Suring, L.H., Tallmon, D.A., and **Wipfli, M.S. (f)** (2015). Climate change implications in the northern coastal temperate rainforest of North America. 130:155-170 [IAB 4056].

Swanson, M., Studts, C.R., Bardach, S.H., **Bersamin, A. (f)**, and Schoenberg, N.E. (2011). Intergenerational energy balance interventions: a systematic literature review. *Health Education & Behavior : the Official Publication of the Society for*

- Public Health Education 38:171-197 [IAB 4057].
- Novotny, Rachel, Fialkowski, Marie K., Ropeti Areta, Aufa'i Apulu, **Bersamin, Andrea (f)**, Braun, Kathryn, DeBaryshe, Barbara, Deenik, Jonathan, Dunn, Michael, Hollyer, James, Kim, Jang, Leon Guerrero, Rachael T., Nigg, Claudio R., Takahashi, Ron, and Wilkens, Lynne R. (2013). The Pacific Way to Child Wellness: The Children's Healthy Living Program for Remote Underserved Minority Populations of the Pacific Region (CHL). *Hawaii Journal of Medicine & Public Health* 72:406-408 [IAB 4058].
- Braun, K.L., Nigg, C.R., Fialkowski, M.K., Butel, J., Hollyer, J.R., Barber, L.R., **Bersamin, A. (f)**, Coleman, P., Teo-Martin, U., Vargo, A.M., and Novotny, R. (2014). Using the ANGELO model to develop the children's healthy living program multilevel intervention to promote obesity preventing behaviors for young children in the U.S.-affiliated Pacific Region. *Childhood Obesity (Print)* 10:474-481 [IAB 4059].
- Wilken, L.R., Novotny, R., Fialkowski, M.K., Boushey, C.J., Nigg, C., Paulino, Y., Leon Guerrero, R., **Bersamin, A. (f)**, Vargo, D., Kim, J., and Deenik, J. (2013). Children's Healthy Living (CHL) Program for remote underserved minority populations in the Pacific region: rationale and design of a community randomized trial to prevent early childhood obesity. *BMC Public Health* 13:944 [IAB 4060].
- Izumi, Betty T., Pickus, Hayley A., Contesti, Amy, Dawson, Jo, and **Bersamin, Andrea (f)** (2015). Serving Fish in School Meals: Perceptions of School Nutrition Professionals in Alaska. *J Child Nutrition and Management* 39: [IAB 4061].
- Fialkowski, M.K., DeBaryshe, B., **Bersamin, A. (f)**, Nigg, C., Leon Guerrero, R., Rojas, G., Areta, A.'i A.R., Vargo, A., Belyeu-Camacho, T., Castro, R., Luick, B., and Novotny, R. (2014). A community engagement process identifies environmental priorities to prevent early childhood obesity: the Children's Healthy Living (CHL) program for remote underserved populations in the US Affiliated Pacific Islands, Hawaii and Alaska. *Maternal and Child Health Journal* 18:2261-2274 [IAB 4062].
- Li, F., Wilkens, L.R., Novotny, R., Fialkowski, M.K., Paulino, Y.C., Nelson, R., **Bersamin, A. (f)**, Martin, U., Deenik, J., and Boushey, C.J. (2015). Anthropometric measurement standardization in the US-affiliated pacific: Report from the Children's Healthy Living Program. *American Journal of Human Biology : the Official Journal of the Human Biology Council* [IAB 4063].
- Luick, B., **Bersamin, A. (f)**, and Stern, J.S. (2014). Locally harvested foods support serum 25-hydroxyvitamin D sufficiency in an indigenous population of Western Alaska. *International Journal of Circumpolar Health* 73: [IAB 4064].
- Ritter, T.L., **Lopez, E.D.S. (f)**, Goldberger, R., Dobson, J., Hickel, K., Smith, J., **Johnson, R.M. (f)**, and **Bersamin, A. (f)** (2014). Consuming untreated water in four southwestern Alaska Native communities: reasons revealed and recommendations for change. *Journal of Environmental Health* 77:8-13; quiz 52 [IAB 4065].
- Novotny, R., Fialkowski, M.K., Li, F., Paulino, Y., Vargo, D., Jim, R., Coleman, P., **Bersamin, A. (f)**, Nigg, C.R., Leon Guerrero, R.T., Deenik, J., Kim, J.H., and Wilkens, L.R. (2014). Systematic Review of Prevalence of Young Child Overweight and Obesity in the United States-Affiliated Pacific Region Compared With the 48 Contiguous States: The Children's Healthy Living Program. *Am J Public Health* 105:e22-e35 [IAB 4066].
- Schnurr, T.M., Reynolds, A.J., Gustafson, S.J., **Duffy, L.K. (f)**, and **Dunlap, K.L. (f)** (2014). Conditioning causes an increase in glucose transporter-4 levels in mononuclear cells in sled dogs. *The International Journal of Biochemistry & Cell Biology* 55:227-231 [IAB 4068].
- Scerbak, Courtney, Mitra, Swarup, Schnurr, Theresia, Tackett, Alex, Zheng, Jinghui, Bender, Gary, and **Dunlap, Kriya (f)** (2015). Biomembranes Transformation: Instructor Led to iPad-Based Student Led. *Journal of Modern Education Review* 5:195-203 [IAB 4069].
- Schnurr, T.M., Reynolds, A.J., Komac, A.M., **Duffy, L.K. (f)**, and **Dunlap, K.L. (f)** (2015). The effect of acute exercise on GLUT4 levels in peripheral blood mononuclear cells of sled dogs. *Biochemistry and Biophysics Reports* 2:45-49 [IAB 4070].
- Grace, M.H., Esposito, D., **Dunlap, K.L. (f)**, and Lila, M.A. (2014). Comparative Analysis of Phenolic Content and Profile, Antioxidant Capacity, and Anti-inflammatory Bioactivity in Wild Alaskan and Commercial Vaccinium Berries. *J. Agric. Food Chem.* 62:4007-4017 [IAB 4071].
- Lawrence K Duffy and Kriya L Dunlap and Anna R Godduhn (f)** (2014). Bias, complexity, and

uncertainty in ecosystem risk assessment: pharmaceuticals, a new challenge in scale and perspective. *Environmental Research Letters* 9:091004 [IAB 4072].

Nicholas-Figueroa, Linda, Barnhardt, Ray, **Duffy, Lawrence: Dunlap, Kriya (f), van Muelken, Mary (f)**, and Middlecamp, Catherine (2015).

Delivering Post-Secondary STEM Education on the North Slope, Alaska: Resilience and Adaptation. *International Research in Education* 3: [IAB 4073].

Schnurr, T.M., Reynolds, A.J., **Duffy, L.K. (f)**, and **Dunlap, K.L. (f)** (2015). Glucose transporter-4 in white blood cells of young and old sled dogs: a model for human biomarker development. *Polar Record* 51:160-164 [IAB 4074].

Kim, I.-Y., Williams, R.H., Schutzler, S.E., Lasley, C.J., Bodenner, D.L., Wolfe, R.R., and **Coker, R.H. (f)** (2014). Acute lysine supplementation does not improve hepatic or peripheral insulin sensitivity in older, overweight individuals. *Nutrition & Metabolism* 11:49 [IAB 4075].

Coker, R.H. (f), Hays, N.P., Williams, R.H., Xu, L., Wolfe, R.R., and Evans, W.J. (2014). Bed rest worsens impairments in fat and glucose metabolism in older, overweight adults. *The Journals of*

Gerontology. Series A, Biological Sciences and Medical Sciences 69:363-370 [IAB 4076].

Alexeev, Vladimir A., **Euskirchen, Eugenie S. (f)**, Cherry, Jessica E., and Busey, Robert C. (2015). Tundra burning in 2007 - Did sea ice retreat matter?. *Polar Science* 9:185-195 [IAB 4077].

Lewis, T.L. (g), **Lindberg, M.S. (f)**, Schmutz, J.A., Heglund, P.J., Rover, J., Koch, J.C., and Bertram, M.R. (2015). Pronounced chemical response of Subarctic lakes to climate-driven losses in surface area. *Global Change Biology* 21:1140-1152 [IAB 4078].

Schmidt, J.H., Johnson, D.S., **Lindberg, M.S. (f)**, and Adams, L.G. (2015). Estimating demographic parameters using a combination of known-fate and open N-mixture models. *Ecology* 96:2583-2589 [IAB 4079].

Lindberg, M.S. (f) (2012). A review of designs for capture-mark-recapture studies in discrete time. 152:355-370 [IAB 4080].

Nicol, S. (g), **Griffith, B. (f)**, **Austin, J. (f)**, and **Hunter, C.M. (f)** (2014). Optimal water depth management on river-fed National Wildlife Refuges in a changing climate. *Climatic Change* 124:271-284 [IAB 4082].

See the [UAF Cornerstone](http://uafornerstone.net/) for more news and events (http://uafornerstone.net/).

Quote of the Day

Either move or be moved.

[Ezra Pound](#)