

2013 Faculty Refereed Publications

Ahmad, S., A. Ahmad, H. Ali, A. Hussain, A. Garcia y Garcia, G. Hoogenboom. Application of the CSM-CERES-Rice model for evaluation of plant density and irrigation management of transplanted rice under irrigated semiarid environment. *Irrigation Science*, (2013) 31:491-506. DOI: 10.1007/s00271-012-0324-6

An, Y., J.A. Rininger, D.L. Jarvis, X. Jing, Z. Ye, J.J. Aumiller, M. Eichelberger, J.F. Cipollo. Comparative glycomics analysis of influenza hemagglutinin (H5N1) produced in vaccine-relevant cell platforms. *J. Proteome Res.* (2013) 12:3707-3720.

Andersen, M.A. The Economic impact of public agricultural research and development. *United States Agricultural Economics* (2013) 44(13):287-295.

Anisimova, M., D.A. Liberles, H. Philippe, J. Provan, T. Pupko, A. von Haessler. State of the art methodology dictates new strategies for phylogenetic analysis pipelines. *BMC Evolutionary Biology* (2013) 13(1):1-8.

Arias, R., L. Unruh-Snyder, E. Scholljegerdes, A. Baird, K. Johnson, D. Buckmaster, R. Lemenager, S. Lake. Effects of feeding corn modified wet distillers grain plus solubles co-ensiled with chopped whole plant corn on heifer growth performance and diet digestibility in beef cattle. *J. Anim. Sci* (2013) 91:1366-4373.

Baker, T.J., S.N. Miller. Using the Soil and Water Assessment Tool (SWAT) to assess land use impact on water resources in an East African watershed *Journal of Hydrology* (2013) 486: 100-111.
<http://dx.doi.org/10.1016/j.jhydrol.2013.01.041>

Barnes, M., A. Hild. Strategic grazing management for complex creative systems. *Rangelands* (2013) 35(5):3-5.

Beck, J. L., K. T. Smith, J. T. Flinders, C. L. Clyde. Seasonal habitat selection by elk in north central Utah. *Western North American Naturalist* (2013) 73:442-456. doi.org/10.3398/064.073.0414

Bisadze, N., S. Jaronski, V. Khasdan, E. Abashidze, M. Abashidze, A. Latchininsky, D. Samadashvili, I. Sokhadze, M. Rippa, I. Ishaaya, A.R. Horowitz. Joint action of Beauveria bassiana and the insect growth regulators diflubenzuron and novaluron, on the migratory locust, *Locusta migratoria*. *Journal of Pest Science* (2013) 86(2):293-300.

Bowman GR, A.M. Perez, J.L. Ptacin, E. Ighodaro, E. Folta-Stogniew, L.R. Comolli, L. Shapiro. Oligomerization and higher-order assembly contribute to sub-cellular localization of a bacterial scaffold. *Molecular Microbiology*, © 2013 John Wiley & Sons Ltd. 90(4):776-795.

Branchu P, T. Hindré, X. Fang, R. Thomas, M. Gomelsky, L. Claret, J. Hareld, A.P. Gobert, C. Martin. The c-di-GMP phosphodiesterase VmpA absent in Escherichia coli K12 strains affects motility and biofilm formation in the enterohemorrhagic O157:H7 serotype. *Vet Immunol Immunopathol* (2013)152:132–140.

Castro, C.S. de, S.R. Shaw, A.M. Penteado-Dias. A new species of *Lissodoryctes* Marsh 2002 from Brazil (Hymenoptera: Braconidae: Doryctinae). *Entomological News* (2013) 123 (1): 1-4.

Centrella, M.L., S.R. Shaw. Three new species of gall-associated *Allorhogas* wasps from Costa Rica (Hymenoptera: Braconidae: Doryctinae). *International Journal of Tropical Insect Science* (2013) 3686: 1-8. doi: 10.1017/S1742758413000143.

Crowder, D.; R.W. Jabbour. Relationships between biodiversity and biological control in agroecosystems: Current status and future challenges. *Biological Control* (2013) <http://dx.doi.org/10.1016/j.biocontrol.2013.10.010>

Culp, Claeys, Lemenager, Rusk, Bridges, S. Lake. Effects of continuous and step-up ractopamine hydrochloride supplementation protocols on feeding performance and carcass characteristics of finishing steers. *Prof. Anim. Sci* (2013) 29(2):141-146.

Dong, M., Q. Zheng, S.P. Ford, P.W. Nathanielsz, J. Ren. Maternal obesity, lipotoxicity and cardiovascular diseases in offspring. *J. Mol. Cell Cardiol.* (2013) 55:111-116.

Fares, A., M. Temimi, K. Morgan, T. Kelleners, In situ and remote soil moisture sensing technologies for vadose zone hydrology. *Vadose Zone Journal* (2013) doi:10.2136/vzj2013.03.0058

Fay, D. Cancer Metabolism: Feeding a worm to starve a tumor. *Current Biology* (2013) 23(13):557-559.

Fay, D. Classical Genetic Methods in *C. elegans*. *WormBook* (2013) Dec 30:1-58. doi: 10.1895/wormbook.1.165.1.

Fay, D., K. Gero. *A biologist's guide to statistical thinking and analysis*. *WormBook* (2013)

Fidgen, J. G., S. M. Salom, D. E. Legg. A sequential sampling plan for counts of *Adelges tsugae* on eastern hemlock. *Southern Journal of Applied Forestry* (2013) 37: 75 - 80.

Fluegel AM, A. Boerger-Fields, O.L. Henderson, C.M. Loiacono, T.E. Cornish, D. O'Toole, K.W. Mills. Abortion and premature birth in Western Wyoming cattle herds vaccinated with *Brucella abortus* strain. *RB51 J Vet Diagn Invest.* (2013) Sep;25(5):630-5.

Frisvold, George B., L.E. Jackson, J.G. Pritchett, J.P. Ritten. "Agriculture and Ranching." In Assessment of Climate Change in the Southwest United States: A Report Prepared for the *National Climate Assessment Island Press* (2013) Chapter 11.

Gamo, R. S., J. D. Carlisle, J. L. Beck., J. A. C. Bernard, M. E. Herget. Greater sage-grouse in Wyoming: an umbrella species for sagebrush dependent wildlife. *The Wildlife Professional* (2013) 7:56–59.

Gao, Y., R.P. Aryal, T. Ju, R.D. Cummings, G. Gahlay, D.L. Jarvis, K.L. Matta, J.Z. Vlahakis, W.A. Szarek, I. Brockhausen. Acceptor specificities and selective inhibition of recombinant human Gal- and GlcNAc-transferases that synthesize core structures 1, 2, 3 and 4 of O-glycans. *Biochim. Biophys. Acta* (2013) 1830:4274-4281.

Ge, W., N. Hu, L.A. George, S.P. Ford, P.W. Nathanielsz, X.M. Wang, J. Ren. Maternal nutrient restriction predisposes ventricular remodeling in adult sheep offspring. *J. Nutr. Biochem.* (2013) 24 (7):1258-1265.

Gerken, T.A., L. Revoredo, J. Thome, L.A. Tabak, H. Clausen, M.B. Vester-Christensen, D.L. Jarvis, G.K. Gahlay, K.W. Moremen. The lectin domain of the polypeptide GalNAc transferase family of glycosyltransferases (ppGalNAc T's) acts as a switch directing glycopeptide substrate glycosylation in an N- or C- direction further controlling mucin-type O-glycosylation. *J. Biol Chem.* (2012) 288:19900-19914.

Ghimire, R., J.B. Norton, and E. Pendall. Alfalfa-grass biomass, soil organic carbon, and total nitrogen under different management approaches in an irrigated agroecosystem. *Plant and Soil DOI* (2013) 10.1007/s11104-013-1854-2.

Ghimire, R., J.B. Norton, U. Norton, J.P. Ritten, P.D. Stahl, J.M. Krall. Long-term farming systems research in the central High Plains. *Renewable Agriculture and Food Systems* (2013) 28:183-193.

Gomelsky M., J.H. Zeilstra-Ryalls. The living genome of a purple nonsulfur photosynthetic bacterium: Overview of the *Rhodobacter sphaeroides* transcriptome landscapes *Adv Botanical Res* (Special issue: Genome evolution of photosynthetic bacteria. J.T. Beatty, ed.) (2013) 66:179-203.

Gomelsky, M. A zinc lock on GGDEF domain dimerization inhibits *E. coli* biofilms. *Structure* (2013) 21:1067-8.

Gomelsky, M., M.Y. Galperin. Bacterial second messengers, cGMP and c-di-GMP, in a quest for regulatory dominance. *EMBO J* (2013) 32: 2421-3.

Griffin, R.C., D.E. Peck, J. Maestu. Myths, principles and issues in water trading. In J. Maestu (ed.) *Water Trading and Global Water Scarcity: International Experiences* New York: RFF Press. (2013) 367 pages.

Gunn, P., D. Buckmaster, R. Lemenager, M. Van Emon, M. Claeys, S. Lake. Preservation characteristics of modified wet distillers grains with solubles stored with marginal-quality feedstuffs in laboratory-scale mini silos. *J. Anim. Sci* (2013) Dec. 29.6:761-767.

Guo, W., J.M. Pleitner, K.W. Saupe, M.L. Greaser. Pathophysiological defects and transcriptional profiling in the *Rbm20^{-/-}* rat model. *PLOS ONE* (2013) DOI: 10.1371/journal.pone.0084281.

Hansen, K., R. Howitt, J. Williams. "Water Trades in the Western United States: Risk, Speculation, and Property Rights." In *Water Trading and Global Water Scarcity: International Perspectives*, ed. J. Maestu. *Resources for the Future Press Water Policy Series* (2013)

Hart, A.M., G. Casper. Rural parent behaviors and expectations when caring for children with acute respiratory infections. *Journal of the American Academy of Nurse Practitioners* (2013) 25(8):431-439.

Hazel, J., K. Krutkramelis, P. Mooney, M. Tomschik, K. Gerow, J. Oakey, J.C. Gatlin. Changes in Cytoplasmic Volume are Sufficient to Drive Spindle. *Scaling Science* (2013) 342(6160) 853-856.

Heiden, K., V.B. Vincenti. Draft title: Institutional Development as a Career: A Case Study of Elizabeth G. Haley *Journal of Family and Consumer Sciences* (2013) 105(1):55-65.

Hu J, B. Wang, X. Fang, W.J.Means, R.J. McCormick, M. Du, M. Gomelsky, M.J. Zhu. c-di-GMP signaling regulates E. coli O157:H7 adhesion to colonic epithelium. *Vet Microbiol* (2012) 164:344-51

Hufford, K.M., S.J. Mazer, S.A. Hodges. Genetic variation among mainland and island populations of a native perennial grass used in restoration. *AoB Plants* (2013) plt055 doi:10.1093/aobpla/plt055.

Hurisso, T.T., J.B. Norton, U. Norton. Soil profile carbon and nitrogen in prairie, perennial grass–legume mixture and wheat-fallow production in the central High Plains. *USA Agriculture, Ecosystems and Environment* (2013) 181:179-187.

Islam, M.A., A.K. Obour, M.C. Saha, J.J. Nachtman, R.E. Baumgartner. Small grains have forage production potential and nutritive value. *Central High Plains of Wyoming Forage and Grazinglands* (2013) doi:10.1094/FG-2013-0121-02-RS

Islam, M.A., A.K. Obour, J.M. Krall, J.T. Cecil, J.J. Nachtman. Performance of turfgrass under supplemental irrigation and rain-fed conditions. *Central Great Plains of USA Grassland Science* (2013) 59, 111-119.

Islam, M.A., A.K. Obour, M.C. Saha, J.J. Nachtman, J.W.K. Cecil, R.E. Baumgartner. Grain yield, forage yield, and nutritive value of dual-purpose small grains. *Central High Plains of USA Crop Management* (2013) doi: 10.1094/CM-2012-0154-RS

Jabbour, R., S. Zwickle, E.R. Gallandt, K. McPhee, R. Wilson, D. Doohan. Mental models of organic weed management: comparison of New England farmer and expert models. *Renewable Agriculture and Food Systems* (2013)

Jin E., B. Zhang, X. Sun, Z. Zhou, X. Ma, Q. Sun, J. Tang, Y. Shen, E.A. Van Kirk, W.J. Murdoch, M. Radosz. Acid active cell-penetrating peptides for in vivo tumor-targeted drug delivery. *Journal of the American Chemical Society* (2013) 135:933-940.

Jones, G.Z., S.R. Shaw. Ten new species of Meteorus (Hymenoptera: Braconidae) from Ecuador reared at the Yanayacu Biological Research Center for Creative Studies. *Zootaxa* (2013) 3547: 1-23.

Kachergis, E., C. Knapp, M. Fernandez-Gimenez, J. Ritten, J. Pritchett, J. Parsons, W. Hibbs, R. Roath. Tools for Resilience Management: Multi-Disciplinary Development of State-and-Transition Models for Northwest Colorado. *Ecology and Society* (2013) 18(4):39.

Kamneva, O.K., D.H. Haft, S. Knight, D.A. Liberles, N.L. Ward. Genomics and bioinformatics of the PVC superphylum." *New Models for Cell Structure, Origins and Biology: Planctomycetes Springer-Verlag* (2013)

Kandadi, M.R., Y. Hua, M. Zhu, S. Turdi, P.W. Nathanielsz, S.P. Ford, S. Nair, J. Ren. Influence of gestational overfeeding on myocardial proinflammatory mediators in fetal sheep heart. *J. Nutr. Biochem.* (2013) 24(11):1982-1990.

Kelleners, T. Coupled water flow and heat transport in seasonally frozen soils with snow accumulation. *Vadose Zone Journal* (2013) doi:10.2136/vzj2012.0162

Latchininsky, A. Locusts: and Remote Sensing: a Review *Journal of Applied Remote Sensing* (2013) 7:32.

Latchininsky, A., R. Sivanpillai, F. Gapparov. Mapping changes in the water bodies and vegetated areas of the Amudarya River Delta, Uzbekistan using Landsat data. *Editions Hermann* (2013) Pp. 517-526 in: WATARID3 Usages et Politiques de l'Eau en zones arides et semi-arides. M-F Courel, T. Tashpolat and M. Taleghani, Eds.

Lieske S.N., R.H. Coupal, J.D. Hamerlinck, D.M. McLeod, A.M. Scofield. Planning support system enabled spatially explicit local government fiscal modeling in Planning Support Systems for Sustainable Urban Development (Edited Volume). *Springer Academic Publishers* (2013)

Lin, C.-H., D.L. Jarvis. Utility of temporally distinct baculovirus promoters for constitutive and baculovirus-inducible transgene expression in transformed insect cells. *J. Biotechnol.* (2013) 165:11-17.

Long, N.M., N. Tuersunjiang, L.A. George, C.O. Lemley, Y. Ma, W.J. Murdoch, P.W. Nathanielsz, S.P. Ford. Maternal nutrient restriction in the ewe from early to midgestation programs reduced steroidogenic enzyme expression and tended to reduce progesterone content of corpora lutea, as well as circulating progesterone in nonpregnant aged female offspring. *Reproductive Biology & Endocrinology* (2013) 11:34.

Long, N.M., D.T. Smith, S.P. Ford, P.W. Nathanielsz. Elevated glucocorticoids during ovine pregnancy increase appetite and produce glucose dysregulation and adiposity in their granddaughters in response to ad libitum feeding at 1 year of age. *Am. J. Obstet. Gynecol.* (2013) 209 (4):353.e1-9.

Long, N.M., S.P. Ford, and P.W. Nathanielsz. Multigenerational effects of fetal dexamethasone on the hypothalamic-pituitary-adrenal axis of first- and second-generation female offspring. *Am. J. Obstet. Gynecol.* (2013) 208 (3):217.e1-8.

Ma, X., Q. Sun, Z. Zhou, E. Jin, J. Tang, E.A. Van Kirk, W.J. Murdoch, Y. Shen. Synthesis of degradable bifunctional dendritic polymers as versatile drug carriers. *Polymer Chemistry* (2013) 4:812-819.

Mahdavi R, N.L. Yagin, M. Liebman, Z. Nikniaz. Effect of different brewing times on soluble oxalate content of loose-packed black teas and tea bags. *Urolithiasis* (2013) 41:15-19

Maher, A.T., J.A. Tanaka, N. Rimbey. Economic risks of cheatgrass invasion on a simulated eastern Oregon ranch. *Rangeland Ecology and Management* (2013) 66:356-363.

McDaniel, J., W. Askew, D. Bennett, J. Mihalopoulos, S. Anantharaman, A., S. Fjeldstad, D. C. Rule, N.M. Nanjee, R. A. Harris, and R. S. Richardson. Bison meat has a lower atherogenic risk than beef. *Healthy Men Nutrition Research* (2013) 33:293-302.

Miller, M.M., B.A. Schumaker, D.L. Montgomery, T. Cornish, T. Dawson, D. O'Toole. When mucosal disease occurs in the wake of BVD vaccination: a herd investigation. *Bovine Practitioner* 2013 Summer 84-93.

Mita, T., S.R. Shaw. A taxonomic study of the genus *Ettchellsia* Cameron (Hymenoptera: Megalyridae) with the description of three new species. *ZooKeys* (2013) 254: 99-108. doi: 10.3897/zookeys.254.4182.

Morgan, K., A.M. Hart. ARI-related patient behaviors and expectations in a rural western state. *Journal for Nurse Practitioners* (2013) 9(4):202-207.

Nagler, A. M., D. J. Menkhaus, C. T. Bastian, M. Ehmke, K. T. Coatney. Subsidy Incidence in Factor Markets: An Experimental Approach. *Journal of Agricultural and Applied Economics* (2013) 45 (1):17-33

Nathanielsz, P.W., S.P. Ford, N.M. Long, C.C. Vega, L.A. Reyes-Castro, E. Zambrano. Interventions to prevent adverse fetal programming due to maternal obesity during pregnancy. *Nutr. Rev.* 71 (Suppl 1) S78-S87.

Naujokaitis-Lewis I.R., Y. Rico, J. Lovell, M.J. Fortin, M.A. Murphy. Implications of incomplete networks on genetic connectivity estimation. *Conservation Genetics* (2013) 14(2):287-298.

Norton, J.B., H.R. Olsen, L.J. Jungst, D.E. Legg, W.R. Horwath. Soil carbon and nitrogen storage in alluvial wet meadows of the Southern Sierra Nevada Mountains, *USA Journal of Soils and Sediments* DOI 10.1007/s11368-013-0797-9. Published online: 31 October 2013.

Peck, D.E. Non-native pest prevention and control: the role of government interventions and their impact on efficiency. In R. Knutson and W. Armbruster (eds.) "U.S. Government Policies Affecting Food and Agricultural Marketing." Springer (2013) 301-346.

Peck, D., J. Peterson. Introduction to the special issue on 'Climate Variability and Water-Dependent Sectors: Impacts and Potential Adaptations'. *Journal of Natural Resources Policy Research* (2013) 5(2-3):73-77.

Phillips, A.T., C.B. Stauff, T.A. Aboellail, A.M. Toth, D.L. Jarvis, A.M. Powers, K.E. Olson. Bioluminescent imaging and histopathologic characterization of WEEV neuroinvasion in outbred CD-1 mice. *PLoS One* (2013) 8:e53462.

Ramey, C.A., K.W. Mills, J.W. Fischer, R.G. McLean, K.A. Fagerstone, R.M. Engemen. Graphically characterizing the movement of a rabid striped skunk epizootic across the landscape in northwestern Wyoming. (2013)

Rashford, B., S. Albeke, D. Lewis. Modeling Grassland Conversion: Challenges of using Satellite Imagery Data. *American Journal of Agricultural Economics* (2013) 95(2):404-411

Reddy, K.J., A. Withman, A. Kniss. (Invited Journal Article) Coalbed natural gas (CBNG) produced water quality: Geochemical processes and impacts. *Journal of Environmental Science: Processes and Impacts. Royal Society of Chemistry*. (2013) DOI:10.1039/C3EM00255A.

Reddy, K.J., K. McDonald, H. King. A novel arsenic removal process for water using cupric oxide nanoparticles. *Journal of Colloid and Interface Science*. (2013) DOI: 10.1016/j.jcis. 2013.01.041.

Römling U., M.Y. Galperin, M. Gomelsky. Cyclic di-GMP: The first 25 years of a universal bacterial second messenger. *Microbiol Mol Biol Rev* (2013) 77:1-52.

Russell M.H., A.N. Bible, X. Fang, J. Gooding, S. Campagna, M. Gomelsky, G. Alexandre. Integration of the second messenger c-di-GMP into the chemotactic signaling pathway promotes sensory adaptation. (2013) *mBio* 4:e00001-13

Sabasi, S.M., C.T. Bastian, D.J. Menkhous, O.R. Phillips. "Committed Procurement in Privately Negotiated Markets: Evidence from Laboratory Markets." *American Journal of Agricultural Economics* 95,5(October 2013):1122-1135.

Serena, M.S., C. Geisler, G.E. Metz, S.G. Corva, E.C. Mórtoła, D.L. Jarvis, M.G. Echeverría. Expression and purification of Suid Herpesvirus-1 glycoprotein E in the baculovirus system and its use to diagnose Aujeszky's disease in infected pigs. *Prot. Expr. Purif.* (2013) 90:1-8.

Shaw, S.R., P.M. Marsh, M.A. Talluto. Revision of North American Aleiodes (Part 9): the pallidator (Thunberg) species-group with description of two new species (Hymenoptera: Braconidae, Rogadinae). *Zootaxa* (2013) 3608 (3): 204-212. <http://dx.doi.org/10.11646/zootaxa.3608.3.4>

Sider L.H., M.P. Heaton, C.G. Chitko-McKown, G.P. Harhay, T.P. Smith, K.A. Leymaster, W.W. Laegreid, M.L. Clawson. Small ruminant lentivirus genetic subgroups associate with sheep TMEM154 genotypes. *Veterinary Research* (2013) 44:64.

Singh, N., R.P. Singh, S. Mukherjee, K.J. McDonald, K.J. Reddy. Hydrogeological processes controlling the release of arsenic in part of 24 parganas district, West Bengal. *Journal of Environmental Earth Sciences* (2013) DOI 10.1007/s12665-013-2940-8.

Smith, V.H., J.P. Hewlett. Farm Policy and Disaster Aid Programs: *The Path Looking Forward CHOICES* (2013) 28:1.

Steele, J.R., B.S. Rashford, J.A. Tanaka, T.K. Foulke, D.T. Taylor. Wolf Predation Impacts on Livestock Production: Direct Effects, Indirect Effects, and Implications. *Compensation Ratios Rangeland Ecology and Management* (2013) Sep. 66(5):539-544.

Stump, W.L., G.D. Franc. Management of Rhizoctonia seedling decay in sugar beet with in-furrow fungicide applications, 2012. *Plant Disease Management Reports* (2013) Vol 7 7:FC123.

Stump, W.L., G.D. Franc. Potato stem decline management with foliar fungicides, 2012. *Plant Disease Management Reports* (2013) Vol 7 7:V113.

Stump, W.L., G.D. Franc. Rhizoctonia root and crown rot management with foliar banded and broadcast fungicide applications, 2012. *Plant Disease Management Reports* (2013) Vol 7 7:FC122.

Stump, W.L., G.D. Franc. Managing seed introduced potato late blight with seed piece treatments, 2012. *Plant Disease Management Reports* (2013) Vol 7 7:ST020.

Thomas, J.J., D.E. Larson-Meyer. Vitamin D and Exercise Performance. In: Constantini N and Hackney AC, eds. *Endocrinology in Physical Activity and Sport*. New York,, New York: Springer Science and Business Media, (2013) Chapter 18: 339-362.

Torell, L.A., G.L. Torell, J.A. Tanaka, N.R. Rimbey. The potential of valuing rangeland ecosystem services on public rangelands. *Western Economic Forum* (2013) 12:40-46.

Tuersunjiang, N., J.F. Odhiambo, N.M. Long, D.R. Shasa, P.W. Nathanielsz, S.P. Ford. Diet reduction to requirements in obese/overfed ewes from early gestation prevents glucose/insulin dysregulation and returns fetal adiposity and organ development to control levels. *Am. J. Physiol. Endocrinol. Metab.* (2013) 305 (7):E868-E878.

Wasson, J., D. M. McLeod, C. T. Bastian and B. S. Rashford 2013. "The Effects of Environmental Amenities on Agricultural Land Values," *Land Economics*. 89,3(August 2013): 466-78.

Wasson, J., D.M. McLeod, C.T. Bastian, B.S. Rashford. "The Effects of Environmental Amenities on Agricultural Land Values." *Land Economics* 89,3(August 2013): 466-78.

Williams, T., D. Levy. Assaying cooperativity of protein-DNA interactions using agarose gel electrophoresis Methods. *Molecular Biology* (2013) 1054:253-65

Woli, P., J.O. Paz, G. Hoo genboom, A. Garcia y Garcia, C.W. Fraisse. The ENSO effect on peanut yield as influenced by planting date and soil type. *Agricultural Systems* (2013) 121:1-8.

Yan, X., Y. Huang, J.X. Zhao, C.J. Rogers, M.J. Zhu, S.P. Ford, P.W. Nathanielsz, M. Du. Maternal obesity down-regulates microRNA let-7g expression, a mechanism for enhanced adipogenesis during fetal muscle development. *Int. J. Obes.* (2013) 37:568-575

Zhang B., X. Ma, W. Murdoch, M. Radosz, Y. Shen. Bioreducible poly(amido amine)s with different branching degrees as gene delivery vectors. *Biotechnology & Bioengineering* (2013) 110:990-998.

Zheljazkov (Jeliazkov), V.D., B. Vick, W.M. Ebelhar, N. Buehring, T. Astatkie. V.D. Zheljazkov, B. Vick, W.M. Ebelhar, N. Buehring, T. Astatkie. Effect of N on Yield and Chemical Profile of Winter Canola in Mississippi. *Journal of Oleo Science* (2013) 62(7):453-458. <http://dx.doi.org/10.5650/jos.62.453> Journal of Oleo Science (Japan Oil Chemist Society).

Zheljazkov (Jeliazkov), V.D., C.L. Cantrell, T. Astatkie, E. Jeliazkova. *Mentha canadensis* L., a subtropical plant, can withstand first few fall frosts when grown in northern climate. *Industrial Crops and Products* (2013) 49:521-525. <http://dx.doi.org/10.1016/j.indcrop.2013.05.034>

Zheljazkov (Jeliazkov), V.D., C.L. Cantrell, T. Astatkie, E. Jeliazkova. Distillation Time Effect on Lavender Essential Oil Yield and Composition. *Journal of Oleo Science* (2013) 62(4):195-199. Journal of Oleo Science (Japan Oil Chemist Society).

Zheljazkov (Jeliazkov), V.D., C.L. Cantrell, T. Astatkie, V. Schlegel, E. Jeliazkova D. Lowe. Effect of Coal-Bed Methane Water on Spearmint and Peppermint. *Journal of Environmental Quality* (2013) doi:10.2134/jeq2013.05.0211. Journal of Environmental Quality (American Society of Agronomy)

Zheljazkov (Jeliazkov), V.D., T. Astatkie, E. Jeliazkova. Effect of foliar application of methyl jasmonate and extracts of juniper and sagebrush on essential oil yield and composition of 'Native' spearmint. *HortScience* (2013) 48(4): 462-465. HortScience (American Society for Horticultural Science)

Zheljazkov (Jeliazkov), V.D., T. Astatkie, T. Horgan, V. Schlegel, X. Simonnet. Distillation Time Effect on Essential Oil Yield, Composition, and Antioxidant Capacity of Sweet Sagewort (*Artemisia annua* L.) Oil. *HortScience* (2013) 48(10):1288-1292. HortScience (American Society for Horticultural Science)

Zheljazkov (Jeliazkov), V.D., T. Horgan, T. Astatkie, and V. Schlegel. Distillation Time Modifies Essential Oil Yield, Composition, and Antioxidant Capacity of Fennel (*Foeniculum vulgare* Mill). *Journal of Oleo Science*. 62(9):665-672. <http://dx.doi.org/10.5650/jos.62.665> Journal of Oleo Science (Japan Oil Chemist Society)

Zheljazkov, V.D., T. Astatkie, E. Jeliazkova. Year-round Variations in Essential Oil Content and Composition of Male and Female Juniper. *HortScience* (2013) 48(7):883–886. 2013. HortScience (American Society for Horticultural Science)

Zhou Z., X. Ma, J. Tang, M. Sui. Y. Shen, E.A. Van Kirk, W.J. Murdoch, M. Radosz. Linear-dendritic drug conjugates forming long-circulating nanorods for cancer drug delivery. *Biomaterials* (2013) 34:5722-5735.