A world-class scientist and entrepreneur who goes out of his way to help his students and colleagues has won the University of Wyoming’s highest faculty honor.

Molecular biology Professor Don Jarvis has been chosen as the 2013 recipient of the George Duke Humphrey Distinguished Faculty Award, named for UW’s 13th president.

“Don embodies all of the qualities that one would associate with an outstanding academic, including excellence in research, teaching and service,” wrote David Fay, professor of molecular biology and director of UW’s Molecular and Cellular Life Sciences Program. “In addition, Don is an incredibly generous colleague who takes time to assist anyone in need.”

International Reputation

Jarvis, who joined the UW faculty as an associate professor in 1998 and became a professor in 2000, is internationally renowned for his work on using genetically engineered insect cells for manufacturing vaccines, diagnostics, or therapeutics for use in human and veterinary medicine.

“Don has built the reputation of being the ‘go to’ man worldwide on all matters concerning glycoprotein expression in insect cells, both in academic research labs and in industry,” wrote Loy Volkman, professor emerita in plant and microbial biology at the University of California-Berkeley. “His outstanding expertise in both virology and glycobiology is in evidence by his service on editorial review boards of journals dedicated to these two topics… It is a rare person who can successfully achieve such breadth in their professional expertise.”

Thirty Grants, Eight Patents

Jarvis has received more than 30 grants from the National Institutes of Health and other entities for his research. He holds eight patents and has filed 10 patent applications and invention disclosures. He was the recipient of UW’s 2012 Outstanding Research Award.

“In addition to publishing more papers in top journals than anyone at Wyoming of whom I am aware, Don has consistently had an astonishingly high level of support for his work,” Fay wrote. “In fact, he is one of the very few faculty members at UW whose salary is consistently more than paid for by the indirect costs of his extramural grants. “Part of the reason that Don has enjoyed such a high

(continued on page 2)
Molecular biology assistant professor receives Ellbogen classroom teaching award

Turning traditional course design upside down, her enthusiasm for teaching, and her drive for students to succeed are among reasons Assistant Professor Naomi Ward has received the John P. Ellbogen Meritorious Classroom Teaching Award.

Ward, who has a split position between the Department of Molecular Biology (75 percent) and the Department of Botany, is in her sixth year as a UW faculty member.

“I’d like to express my thanks to the Office of Academic Affairs and the award’s donor (Mary Ellbogen Garland), for this recognition and for the very generous prize,” says Ward. “I am honored and grateful.”

This year’s other recipients are Peter Parolin, associate professor in the UW Department of English, and Doug Russell, associate professor in the Department of Art.

“Naomi is simply a gifted teacher,” says Anne Sylvester, a molecular biology professor and director of Wyoming’s Experimental Program to Stimulate Competitive Research (ESPCoR). “She excels not only in content delivery but in designing courses that are relevant and rigorous.”

Pamela Langer, associate professor in molecular biology, agrees. Ward designed the microbial diversity and ecology course to have a relatively small amount of lecture and a large lab component.

“The course was designed to address the need to enhance student critical thinking through problem-based learning and student achievement of learning goals by using a backward-design approach,” says Langer. “She first identified the intellectual and practical goals that she wanted students to achieve and then designed a course to accomplish this.”

The course also combines field trips around Wyoming with cutting-edge analysis of field samples.

“Such hands-on learning experiences promote reasoning skills and practical knowledge – these are essential topics that add rigor to science curricula but are currently lacking in universities nationally,” says Sylvester. “Naomi should be commended for detecting this need in the UW and national science curriculum and for single-handedly and creatively designing a course that fulfills the highest of scientific teaching standards.”

Ward received her Ph.D. from The University of Warwick, United Kingdom, and bachelor’s degree from The University of Queensland, Australia.

She exudes enthusiasm for her job as an educator, says Gerry Andrews, associate professor in veterinary sciences.

“As director for the university’s inter-departmental undergraduate microbiology program, I receive unsolicited comments about many of the courses from students in the program on a regular basis,” he says. “In every case, the student comments about Dr. Ward’s microbial diversity and ecology course have been stellar.”

Molecular biology master’s student Jacob Greenlee of Powell says he felt fortunate to have taken two of her classes.

“Her evident fervor for the course material also makes learning from her fun,” he says. Greenlee also noted Ward’s willingness to spend time outside the classroom for supplemental instruction and availability of the information on the course website.

“In addition to Dr. Ward’s advanced teaching methods,” says Stephen Denton, a molecular biology major from Parker, Colorado, “there is one more quality that she exhibits that qualifies her among the university’s best: her old-fashioned, genuine drive for her students to succeed. Dr. Ward would be so excited and knowledgeable about each lecture that I was excited to learn it.”

Jarvis receives UW’s top faculty award (continued from page 1)

level of funding success is the quality and impact of his science. But it also has much to do with Don’s work ethic. Don continues to work with the urgency of a first-year assistant professor who has yet to land their first grant.”

Praised as Mentor

His colleagues also describe Jarvis as an outstanding mentor to young scientists, including undergraduate and graduate students, postdoctoral fellows and young faculty members.

He has developed a “capstone” seminar course for graduate students in molecular biology, as well as a course that allows all undergraduate majors to meet and speak with visiting scientists. Jarvis’ students consistently give him high marks in their evaluations of his classes.

“As a teacher, Don is outstanding,” Fay wrote. “He has the highest standards of any instructor I have known. He pushes students very hard and extracts the very best from them.”

Jarvis earned bachelor’s and master’s degrees in microbiology from Idaho State University before receiving his Ph.D. in virology at the Baylor College of Medicine in Houston, Texas, in 1986. Before coming to UW, he worked as a research scientist, assistant professor, and associate professor at Texas A&M University.
An entomology doctoral student from Casper has received the $32,000 Lloyd/Kumar Graduate Fellowship in Entomology.

Doug Smith received the scholarship established in 2007 to honor long-time UW entomologists Jack Lloyd and Rabinder Kumar. The fellowship supports graduate student education and helps train future entomologists.

Smith’s master’s research at UW included intensive field collections and processing of collected material in the lab. He published the results in the International Journal of Pest Management.

Smith is only the second recipient of the Lloyd/Kumar award, said John Tanaka, head of the Department of Ecosystem Science and Management. The first award was in 2010. Entomology faculty members recommend the recipient with Tanaka having the final decision.

Smith was also the first recipient of the Robert E. Pfadt Memorial Entomology Graduate Student Scholarship. Pfadt was a member of the UW entomology program for more than 60 years.

Ph.D. student receives Pfadt memorial scholarship

Wahid Dakhel of Libya has received the $500 Robert E. Pfadt Memorial Entomology Graduate Student Scholarship.

Wahid is a doctoral student in the Department of Ecosystem Science and Management and UW Extension entomologist, has known Smith for 10 years and is his adviser.

“When Douglas approached me with an inquiry about a possibility of a Ph.D. study, I did not hesitate to provide him with my support,” says Latchininsky.

Smith has taught laboratory classes and assisted teaching courses.

He was part of Latchininsky’s team that developed and delivered a new, economic, efficient, and environmentally less hazardous strategy of rangeland grasshopper control.

As part of that team, Smith received the International IPM (Integrated Pest Management) Award of Excellence at the 7th International IPM Symposium in Memphis, Tennessee, last year.

“Not many graduate students are recognized for their research with such a prestigious award of international scope,” says Latchininsky.

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Graduating seniors tapped as speakers at graduation ceremonies

Twenty-three graduate students and 101 undergraduate students have signed up to participate in spring commencement 1:30 p.m. Saturday, May 11, in the War Memorial Fieldhouse.

Speakers are graduating students Kaitlynn Glover, Casper, B.S. in agricultural communication with a minor in international agriculture, and Kelsie Speiser, Casper, M.S. in animal and veterinary sciences.
Jay Gatlin, assistant professor in the Department of Molecular Biology, was awarded in early April the Laura and Arthur Colwin Endowed Summer Research Fellowship, a highly selective eight-week summer research fellowship at the Marine Biological Laboratory (MBL) in Woods Hole, Massachusetts, Cape Cod.

“I was thrilled,” says Gatlin. “I’m really excited about the opportunity to conduct research in Woods Hole again. I spent a lot of time there during my post-doc.”

The award is $17,743, which provides Gatlin with a fully equipped laboratory at MBL for his research and covers his housing during the two-month fellowship this summer.

Gatlin’s research focuses on how chromosomes get segregated during cell division. Specifically, he studies the molecular machine responsible for physically pulling the chromosomes apart.

“That machine is called the mitotic spindle,” says Gatlin. “When the process of chromosome segregation goes awry, it results in an abnormal number of chromosomes in each daughter cell. Called aneuploidy, this condition is hallmark of many cancer cells and is thought to play a causative role in progression of the disease.”

Gatlin hopes to gain a better understanding of how mitotic spindles are assembled and then identify potential therapeutic targets to combat diseases related to improper spindle function.

“That is the over-arching subject of study in the lab,” he says. “What we’re doing this summer is using a new system developed here at UW in collaboration with John Oakey’s lab to investigate previously intractable questions regarding the assembly of this structure.”

Thanks to his fellowship, Gatlin will be utilizing the prestigious MBL at Woods Hole, an internationally recognized center for research, education, and training in biology, biomedicine, and ecology. Founded in 1888, the lab is a private, non-profit corporation.

“The labs are a summer destination for many prominent researchers in my field,” notes Gatlin. “I was fortunate enough to spend several summers at the MBL while I was a post-doc in Ted Salmon’s Lab at the University of North Carolina at Chapel Hill. During those summers, Ted and I worked closely with Tim Mitchison and his group from the Department of Systems Biology at the Harvard School of Medicine. This is a great opportunity to again work with these same tremendous scientists and for my students to work with them as well; this is perhaps the biggest draw for doing research at the MBL.”

According to the MBL, a corps of more than 270 scientists and support personnel pursue research year-round. The staff is joined each year by more than 300 visiting scientists, summer staff, and research associates from hundreds of institutions around the world. The MBL Corporation has 436 members.

“It’s a great opportunity,” notes Mark Stayton, chair of the molecular biology department in the College of Agriculture and Natural Resources.

Among the scientists with a significant affiliation with the MBL (scientists, course faculty and students) are 55 Nobel Prize winners (since 1929); 118 Howard Hughes Medical Institute investigators, early career scientists, international researchers, and professors (since 1960); 202 Members of the National Academy of Sciences (since 1960); and 178 Members of the American Academy of Arts and Sciences (since 1960).

Mortar Board members honor Wardlaw, Wiseman

Cap and Gown Members of Mortar Board, the senior honor society at the University of Wyoming, have selected Mary Kay Wardlaw and Kelly Wiseman to receive “Tip of the Cap” awards.

Wardlaw is director of the Cent$ible Nutrition Program in the Department of Family and Consumer Sciences and an extension specialist. She was nominated by student Lisa Baldock of Norman, Oklahoma.

Wiseman is the staff assistant in the Office of Academic and Student Programs and was nominated by Kaitlynn Glover of Casper.

The award honors those who offered “exceptional contributions to the University of Wyoming and inspiration of students,” according to Mortar Board.

Mortar Board recognizes students who have excelled in and out of the classroom, based on scholarship, leadership, and service. Mortar Board members participate in many projects and activities throughout the year, both on campus and in the Laramie community.
University of Illinois honors Hixon

Professor Doug Hixon, head of the Department of Animal Science, received a 2013 College of Agricultural, Consumer and Environmental Sciences (ACES) Alumni Award of Merit April 15 from the University of Illinois.

Hixon was one of five ACES alumni to receive the award of merit during the awards luncheon at the I Hotel and Conference Center in Champaign, Illinois.

Hixon attended Illinois State University for two years, then transferred to the U of I and received his bachelor’s (1968) and master’s (1970) degrees and Ph.D. (1980). He also managed the Beef Cattle Teaching and Research Unit for the Department of Animal Science from 1970-80.

He was an assistant professor at the University of Tennessee before joining the University of Wyoming in 1982 as a beef cattle extension specialist. His field of specialty has been beef cattle production and management with emphasis on reproduction and nutrition. Hixon has been head of the UW Department of Animal Science since 2000.

A founding member of the Wyoming Beef Cattle Improvement Association since 1984, Hixon has also maintained active memberships in the Wyoming Stock Growers Association, the National Cattlemen’s Beef Association, and the Wyoming Angus Association.

Hixon was recipient of the UW President’s Faculty Stewardship Award and the Western Section, American Society of Animal Science’s Distinguished Service Award in 2012.

Conservation society presents scholarship

A student with a dual major of agroecology and renewable resources and watershed management has received a $500 Wyoming Chapter of Soil and Water Conservation Society scholarship.

Blaise Allen of Meeteetse is a senior. He is the son of Lee and Kelly Allen.

Society chapter president-elect Lisa Cox, Area 2 director Jerry Schuman, and Professor John Tanaka, head of the Department of Ecosystem Science and Management, presented the scholarship.

Strong performance by UW students at Rocky Mountain Microbiology meeting

Molecular biology Ph.D. student Min-Hyung Ryu of Seoul, South Korea, won the top graduate oral presentation award at the spring meeting of the Rocky Mountain Branch of American Society for Microbiology (RMB ASM) April 12-13 at Colorado State University in Fort Collins.

Ryu’s talk was “Synthetic light-activated modules for gene expression control in vivo.” Ryu’s adviser, molecular biology Professor and RMB ASM president Mark Gomelsky, says that presentation at this regional meeting was good practice for Min-Hyung, whose abstract was selected for a short oral presentation at the general ASM meeting this month.

Another Gomelsky advisee, Molecular and Cellular Life Sciences Ph.D. student Cindy Fang of Hangzhou, China, won second prize in graduate oral presentations with “YdiV, a modulator of mucoid phenotype in E. coli.”

Jia Hu of Wuhan, China, an animal science Ph.D. student, won second prize in the graduate student poster competition. Her adviser is a former Associate Professor Meijun Zhu, who recently moved to Washington State University.

RMB ASM encompasses Colorado and Wyoming. Its mission is embodied in two annual meetings at which undergraduate, graduate, and postdoctoral students and faculty members present results of their research and participate in informal discussions with colleagues from the region, notes Gomelsky.

Each RMB meeting also features prominent microbiology scientists as invited speakers. Last meeting featured Mary Johnson, director of the Tuberculosis Laboratories at CSU, and a Distinguished ASM Lecturer, Joseph Petrosino, director of Alkek Center of Metagenomics and Microbiome Research, at Baylor College of Medicine. For more information, visit the RMB ASM website https://sites.google.com/site/asmrmb/home.
Coat Couture XV Art To Wear highlighted projects Friday, May 3, from the fiber arts class taught by Professor Donna Brown. The exhibit, open to the public until August 16, is at the American Heritage Center.

Awards received were:
- Most Successful Project Overall – Emily Schroeder, Gillette, “Contrast in Equilibrium”
- Best Artistic Merit – Jacquie Lahr, Gillette, “Red, Yellow, Blue”
- Best Narrative Statement – Paul Ditty, Cheyenne, “Diverging Monochromatic Serendipity”

The University of Wyoming Meat Judging Team broke its placings record and a member topped a reasons record she had set only one week earlier during spring competition.

“The individuals who comprise the team were great representatives of the University of Wyoming,” says coach Zeb Gray. “They sacrificed, worked hard, competed with success, and exhibited the character of champions.”

Team members were Lara Allnutt, Walden, Colorado, Austin Buzanowski, Pompey’s Pillar, Montana, Chris Block, Gothenburg, Nebraska, Emilee Brinton, Newnan, Georgia, Jaris Baker, Minnies Gap, Frankie Domenico, Denver, Katie Ferree, Thermopolis, and McKensie Harris, Laramie.

Competitions and placings were:
- January: National Western Stock Show – Team fifth. The team won placings and lamb judging, which had not been done by a UW team in almost 15 years, says Gray. Brinton was high individual in both divisions with teammate Block earning second in lamb judging and fourth in placings. Harris finished second in pork judging, fourth in beef judging, and fifth in reasons.
- January: Fort Worth Stock Show and Rodeo. Team sixth. The team broke the UW team placings record with Allnutt posting the second-highest individual placing score in team history. The team posted the second-highest pork judging score in its history, and Harris earned the third-highest individual score in team history. Domenico posted the sixth-highest individual total score by a UW judge, said Gray.
- February: Iowa State Invitational Contest. Team fourth. Buzanowski led the team winning high individual honors in beef judging and overall beef. The team finished second in reasons with the third-highest score in UW history. Harris led the team in this category posting the second-highest reasons score in team history.
- March: Houston Livestock Show and Rodeo Contest. Team 10th. The team was recognized for its second-place finish in lamb judging with Allnutt, Domenico, and Harris tied for eighth out of more than 100 contestants. Harris again finished second in reasons while breaking her week-old UW record.

For more information, contact Gray at zgray2@uwyo.edu.

UW Meat Judging Team has record-breaking spring

Presentations

Publications

Calendar
May 7, 14, 21: Annie’s Project – Converse County – 11 a.m. at the Converse County Court House Community Room, Douglas

May 9: Annie’s Project – Fremont County – a course especially for women who work in and around agriculture – 5:30 p.m. at the Fremont Center (Armory), Riverton

May 11: College of Agriculture and Natural Resources Spring Commencement, 1:30 p.m. at the UW Fieldhouse, reception immediately following the ceremony

May 13-16: Basic Mediation training workshop, Casper

For a statewide calendar, please access the ag collegeWeb site at www.uwyo.edu/UWAG/
UW agricultural honor society honors top students

Top University of Wyoming agricultural students were honored, and the owners of the Six Iron Ranch (see right) near Shoshoni received Gamma Sigma Delta’s Outstanding Agriculturalist Award at the organization’s annual meeting in Laramie April 20.

Gamma Sigma Delta is the international honor society of agriculture.

Receiving outstanding student awards, their hometowns, and majors in the College of Agriculture and Natural Resources were:

**Outstanding Freshman** – Hannah Shoults, Van Tassell, animal and veterinary sciences; Kelsey Welter, Aurora, Colo., renewable resources and watershed management (REWM)

**Outstanding Sophomore** – Emilee Brinton, Newnan, Georgia, ANVS

**Outstanding Junior** – Perry Baptista, Elizabeth, Colorado, agricultural business; Emily Schroeder, Gillette, family and consumer sciences

**Outstanding Senior** – Erin Anders, Helena, Montana, agroecology and anthropology; Mariel Pfeifer, Hulett, microbiology

**Outstanding Master’s Student** – Victoria Zero, Granada Hills, California, REWM

**Outstanding Doctoral Student** – Eric Wald, Fairbanks, Alaska, REWM

Receiving department awards were:

**Agricultural and applied economics**

Western Agricultural Economics Association Outstanding Senior – Mark Flegel, Prineville, Oregon

Outstanding Agricultural Business Senior – Troy Randall, Pine Bluffs

**Agricultural communications**

Outstanding senior – Kaitlynn Glover, Casper; Kelsey Tramp, Lander

**Animal science**

Honor Book – Christina Appel, Hayden, Colorado; Ethan Oberst, Findlay, Ohio; Kelsey Tramp

**Ecosystem science and management**

Outstanding junior – Catherine-Jane Angwin, Powell

Outstanding senior – Amanda O’Donnell, Spring Creek, Nevada

Graduate student of merit (entomology) – Doug Smith, Casper

Graduate student of merit (soils) – Ben Wolff, Cheyenne

Graduate student of merit (renewable resources and watershed management) – Amarina Wuenschel – Boise, Idaho

**Family and consumer sciences**

Honor Book – Lisa Baldock, Norman, Oklahoma; Jamie Marchetti, Encampment

**Microbiology**

Honor Book – Mariel Pfeifer, Hulett

**Molecular biology**

Honor Book – Madeleine Francis, Laramie

**Plant sciences**

Honor Book – Blaise Allen, Meeteetse; Sarah Legg, Laramie

**Veterinary sciences**

Honor Book – Aubry Gray, Moorcroft

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Shoshoni-area ranch owners receive outstanding agriculturalist award

Owners of the Six Iron Ranch near Shoshoni received Gamma Sigma Delta’s Outstanding Agriculturalist Award at the organization’s annual meeting in Laramie.

Recipients are the Bob and George Pingetzer families. Gamma Sigma Delta is the international honor society of agriculture.

The Pingetzers have worked closely with the Department of Animal Science for more than 20 years in association with the Wyoming Beef Cattle Improvement Association (WBCIA) bull test, says Doug Hixon, professor and head of the department. Bulls have been fed through their Bull and Heifer Development Test Facility between Riverton and Shoshoni.

The families worked with the Riverton Chamber of Commerce and local agricultural community for many years to hold a bull test symposium and banquet prior to each year’s bull sale, Hixon notes. An art auction in conjunction with the banquet helped raise money for student scholarships.

George Pingetzer has been active in Wyoming agriculture for more than 50 years, says Hixon. His son, Bob, serves on the Powell Research and Extension Center Advisory Committee, is a member of the Wyoming Angus Association and is past president of the WBCIA. He is an active member of the Wyoming Stock Growers Association, the Red Angus Association, and American Quarter Horse Association. Bob Pingetzer received bachelor’s and master’s degrees from the Department of Agricultural and Applied Economics at UW.
UW agricultural honor society honors top students (continued from page 8)

Kelsey Welter receives the Outstanding Sophomore Award from Professor Doug Hixon.

Professor Steve Williams presented the ecosystem science and management Outstanding Junior Award to Catherine-Jane Angwin.

Outstanding Junior Perry Baptista received the award from Assistant Professor Kristi Cammack.

Professor Doug Hixon presents animal science Honor Books to Kelsey Tramp, left, and Christina Appel.

Emilee Brinton receives the Outstanding Sophomore Award from Professor Doug Hixon.

Mariel Pfeifer was presented the Outstanding Senior Award by senior lecturer Rachel Watson.

Victoria Zero received the Outstanding Master’s Student Award from Professor Steve Williams.

Assistant Professor Urszula Norton presents the Outstanding Senior Award to Erin Anders.

Plant sciences Honor Book recipients Sarah Legg, left, and Blaise Allen receive the award from Assistant Professor Urszula Norton.

Aubry Gray receives the veterinary sciences Honor Book award from Professor Will Laegreid.

Kelsey Tramp, left, received the Outstanding Senior in agricultural communications award from Professor Donna Brown.

Associate Professor Mark Stayton presents the molecular biology Honor Book to Madeleine Francis.

Jamie Marchetti, left, and Lisa Baldock received family and consumer sciences Honor Book awards from Associate Professor Bruce Cameron.

Mariel Pfeifer receives the Microbiology Honor Book award from Associate Professor Gerry Andrews.

Professor Ed Bradley, left, and Associate Professor Dannele Peck presented the Outstanding Agricultural Business Senior award to Troy Randall, second from left, and the Western Agricultural Economics Association Outstanding Senior award to Mark Flegel.

Professor Steve Williams presented the ecosystem science and management Outstanding Junior Award to Catherine-Jane Angwin.
Monies Awarded

Cammack, Kristi: $3,740 from U.S. Geological Survey for “Rumen Microbial Changes with High Sulfur Year 1 of 2.”

Collier, Timothy: $9,830 from USDA Animal and Plant Health Inspection Service (APHIS) for “Biocontrol Release and Monitoring Program for Wyoming Weeds.”

Cook, Walter: $15,000 from Foreign Agricultural Services/Department of Agriculture for “DTRA Brucellosis Training of African Scientists.”

Coupal, Roger, Kristiana Hansen, and Peter Stahl: $10,000 from Campbell County Economic Development Corporation for “Assessing the Cost and Economic Impact of Mine Reclamation and Restoration.”

Despain, Johnathan, Brittany Johnson, and Eloise Riley: $32,962 from Kansas State University for “Military Families Camp 2013.”

Despain, Johnathan, and Eloise Riley: $38,150 from Department of Army for “Operation Military Kids.”

Dhekney, Sadanand, and Axel Garcia y Garcia: $12,500 from Wyoming Department of Agriculture for “Screening Grape Cultivars for Adaptability to Edaphic and Climatic Factors in Wyoming.”

Ehmke, Cole, Tamra Jensen, Justina Russell, Ronald Cunningham, Mae Smith, Sandra Frost, Ashley Garrelts, and Hanna Swanbon: $12,000 from Iowa State University for “Support for Annie’s Project Course Delivery in Wyoming.”

Geiger, Milton: $500 from various sponsors for “Program Income for Energy Efficiency.”

Hufford, Kristina: $5,000 from Boulder County Parks and Open Space for “Improving Restoration Outcomes for Cercocarpus montanus: A Common Garden Study.”

Kniss, Andrew: $8,000 from Winfield Solutions, LLC for “Formulation and Adjuvant Research,” and $22,620 from Monsanto Company for “Weed Science Research Support.”

Latchininsky, Alexandre, and Larry Debrey: $38,760 from USDA APHIS for “Wyoming Cooperative Agriculture Pest Survey.”

Mealor, Brian: $13,790 from Wyoming Weed and Pest District for “Wyoming Cheatgrass Management Prioritization.”

Murphy, Melanie, and Beth Fitzpatrick: $1,000 from Society for Integrative and Comparative Biology for “Effects of Landscape Change on Greater Sage-Grouse.”

Raisbeck, Merl: $150 from various sponsors for “Miscellaneous Analysis.”

Rasmussen, Carolyn: $325,764 from National Science Foundation (NSF) for “Division Plane Orientation in Plant Cells.”

Thompson, Jennifer: $1,000 from various sponsors for “Wyoming Barnyards and Backyards: An Educational Newsletter for Wyoming’s Small Acre Enthusiast.”

Proposals Submitted

Hufford, Kristina, Jeff Walck, Kay Havens, Andrea Kramer, Jeremie Fant, Pati Vitt, Shannon Still, and Craig Nischke: $312,522 to NSF for “Collaborative Research: Plant Recruitment under Climate Change: Understanding Current and Future Patterns with Implications for Conservation and Restoration.”


Jarvis, Donald, and Tony Shountz: $991,297 to National Institutes of Health (NIH) for “Immune Mechanisms of Virus Control.”

Mooney, Paul: $122,650 to NIH for “Measurement of Microtubule Sliding Forces in Living Spindles.”


Schell, Scott, Alexandre Latchininsky, Brian Mealor, and John Connett: $353,237 to USDA NIFA for “University of Wyoming Extension Service Integrated Pest Management Coordination Project.”

Schumaker, Brant, Jonathan Fox, and Donal O’Toole: $10,800 to Morris Animal Foundation for “Anti-ganglionic Antibodies as a Mechanism for Canine Dysautonomia.”

Schumaker, Brant, and Amy Williams: $4,939 to Meg and Bert Raynes Wildlife Fund for “Distribution, Prevalence, and Feeding Patterns for Tabanid Flies, the Vector of the Arterial Worm of Sheep and Cervids, Ellaeophora schneideri.”

Ward, Naomi, and Heather Rothfuss: $11,494 to University of Calgary for “Engineering a Strain of D. radiodurans R1 to Harbor the Optimized Gene XP13-4a (“The Xenotext”).”

Ward, Naomi, Allan Goldstein, and Lynn Bry: $370,645 to NIH for “Functional Significance of the Microbiome in Hirschsprung’s Enterocolitis.”