

# COLLEGE OF VETERINARY MEDICINE

## ACADEMIC REPORT FOR 2016-2017

### 2016-2017 Highlights aligned with the Strategic Plan

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#### **Achievements related to Goal 1: Provide a transformative educational experience for all learners.**

##### a. Programs that enhance the learning environment and student success

We are fortunate that the College of Veterinary Medicine (CVM) program in general enjoys significant evidence of student success. The Class of 2017 had a 100% pass rate on the national board exam for veterinarians, with a national pass rate of 95%. All 2017 graduates who were seeking jobs were employed at the time of graduation. Overall attrition in the CVM is very low and is almost always relative (ie a student may move back one year in the program due to medical, personal or academic reasons) and almost all matriculated students graduate.

By its nature, the learning environment in the CVM is predominantly experiential and hands-on as learning skills such as physical exam, surgery, anesthesiology, diagnostic techniques, etc are gained via a combination of laboratories, participation in clinical rotations, and preceptorships with general or specialty practices. Students are closely mentored throughout the program and in the fourth year, are in almost an apprenticeship-like learning experience.

Students have a fair degree of autonomy in their learning, even though the professional program is structured. They can choose electives to enhance their learning and experience in areas that are of most interest to them. Their preceptorships are also self-identified and allow them to work in practices that can be potential future employers.

Our collaborative program with the Oregon Humane Society in Portland gives each student a much higher exposure to surgery, medicine, dentistry and behavior training than is common throughout the country. At the Animal Medical Learning Center each student performs an average of 50 spay or neuter surgeries in addition to providing medical and surgical care of some of the 11,000 animals that go through the OHS each year. This opportunity results in a high level of surgical confidence and skill and is always a favorite rotation.

Approximately 30 DVM students each year participate in paid summer research experiences that include clinical, laboratory and international research. Many of these result in the required senior paper/presentation and some also result in published manuscripts.

##### b. Advance learning through course design, assessment and faculty development

The College is part of a consortium of five veterinary schools in the western U.S. that have formed a Regional Teaching Academy (RTA) to promote advancements in pedagogy, curricular design and assessment in medical education. This very group had a biennial regional meeting in July that focused on how to teaching critical thinking and clinical reasoning skills.

The RTA has subcommittees that have developed plans for peer assessment in veterinary education, comprehensive teaching review for purposes of promotion and tenure, and veterinary educator training and scholarship (VETS), also known as boot camp for new faculty in veterinary schools. Our members of the RTA at OSU have also formed a Community of Practice, which is a group of local veterinary educators that have regular meetings to share best practices in teaching, course design and assessment.

The College holds a full day Teaching Retreat every other year. This year's retreat is focused on curricular review and innovations. There are also annual Teaching Grants awarded on a competitive basis.

c. Expand strategies to recruit diverse and high-achieving students

There are two programs specific to these purposes.

- 1) OSU Summer Veterinary Experience. Now in its sixth year, this experience was initiated in order to introduce Oregon high school students from underserved populations to the veterinary profession and to provide experience and information about college life, costs, financial aid and programs. Current veterinary students design the activities and function as close mentors to 24 high school students. They participate in five days of hands-on experiences in varied facets of clinical veterinary medicine, complete a small bench-top laboratory research project and present the results to peers, faculty, and families on the last day of the camp. They also have social events and talks on college applications and financial aid. The program has been so successful, we have increased the number of participants from the initial 8. In follow up surveys of the students who participated from 2012-2015, response rates were relatively low, but 100% of respondents indicated they were in college or planning to attend and 60% said they were still considering veterinary medicine as a career. Other career preferences expressed at the time of the survey included public health, nursing, human medicine and business.
- 2) Pre-Vet Scholars program. This collaboration with the University Honors College was started in 2011 in an effort to attract high-achieving students into the health professions and specifically into veterinary medicine. The first participants from the program graduated in 2015 and one entered the CVM program in the Class of 2019, two are in the Class of 2020 and three will start in the Class of 2021 (an additional Pre-Vet scholar is starting vet school at Cornell this fall). Pre-Vet Scholars participate in a variety of veterinary-related activities throughout the year, are closely mentored by one or two CVM faculty, and they generally focus their honors thesis on veterinary-related research or topic. With each year of the program, the Pre-Vet scholars have taken on increasing ownership of the program with development of common goals and policies and organization of activities.

In addition, the CVM participated this year in JUNTOS Family Day, an annual event designed to promote the University and the University experience to Hispanic families. Families visiting the vet school for this day had tours, demonstrations, and talks by native Spanish-speaking faculty and students.

The CVM also hosted 55 high school students on a campus visit planned by the Oregon Pacific Area Health Education Center, a grant funded program with the goal of diversifying

healthcare by introducing high school students from rural and diverse backgrounds into the career pipeline.

Last year, the Colleges of Pharmacy and Veterinary Medicine shared a recruiting booth at the SACNAS (Society for the Advancement of Chicanos and Native Americans in Science) conference. Our Admissions Coordinator also promoted our program at the University of California, Davis and OSU Pre-Health Fairs and the OR-AMP PNW-LSAMP Conference (geared towards minority students in the STEM fields)

## **Achievements related to Goal 2: Demonstrate leadership in research, scholarship and creativity**

### a. Attract and retain high quality faculty

Our new faculty members in 2016-2017 included Dr. Sree Puttachary, a veterinarian with a research program in neurology, who is teaching Microanatomy, and Dr. Haley Leeper, an oncologist. We added this third oncologist position because of the tremendous increase in oncology caseload due in part, but not entirely, to the increase in clinical trials. Dr. Mark Ackermann, an internationally-recognized expert in veterinary infectious disease and boarded anatomic pathologist and PhD, will be the new Director of the Oregon Veterinary Diagnostic Laboratory, starting in October, 2017. Negotiations are in process for an orthopedic small animal surgeon, a small animal internist and two emergency/critical care specialists.

### b. Expand and cultivate transdisciplinary research

Appendix 1 is a list of the current and ongoing research grants for CVM faculty. Ongoing projects in the College vary from basic research to translational and applied studies and are funded by a variety of sources from NIH and NSF, to foundations, to industry. The majority of these studies include collaborators from other departments, colleges, and institutions.

### c. Increase the quality, capacity and impact of graduate programs

The multidisciplinary graduate program in Comparative Health Sciences completed its third year. In 2016-2017. In this period, 20 new Master's students and 4 new PhD students were admitted.

### d. In other ways advance leadership in research, scholarship and creativity

The College is an active participant in the national registry of veterinary clinical trials in oncology. This is important in establishing collaborations and has increased our Oncology caseload significantly as well as bringing visibility to the program.

## **Achievements related to Goal 3: strengthen impact and reach throughout Oregon and beyond**

### a. Position OSU's outreach and engagement programs as learning laboratories that promote high-impact learning and effectively utilize university research

The Oregon Veterinary Diagnostic Laboratory (OVDL) plays a key role in diagnosis of animal disease in Oregon and beyond. The OVDL is a member of the federal National Animal Health Laboratory Network, and performs disease surveillance to prevent and limit animal disease outbreaks and to provide alerts for potential human disease. In the last year, the OVDL identified positive cases in Oregon of coccidioidomycosis (a systemic fungal infection previously thought to be confined geographically to the southwest United States), West Nile virus, and St. Louis Encephalitis. Surveillance has been underway also for Zika virus, but no positive cases have been found. Rabies testing is an important job of the OVDL and 330 animals were tested last year, with 9 positives found. The OVDL is approved by the USDA to provide support to any potential foreign animal disease outbreak that could have a serious impact on the U.S. economy.

The small animal and large animal Veterinary Teaching Hospitals (VTH), continue to provide medical, surgical, preventative health, and rehabilitation services for animals and their owners statewide. The addition of interventional radiology services has increased our ability to successfully treat certain conditions. Veterinary students and house officers (interns, residents, and clinical fellows) receive excellent hands-on training from participating in providing these services.

b. Increase study abroad and strategic international research partnerships

See Appendices 2 and 3 for information about student international engagement and faculty international research partnerships.

b. Engage alumni and other external partners to advance our goals

The College's Advisory Council, which meets every 6 months, includes several OSU alumni and they are quite active in initiating and promoting events for alumni, the general public, and certain targeted groups such as kennel clubs. We are continuing to annually hold two local and two national alumni reunions, the latter in association with well-attended and promoted national meetings for veterinarians. We are also planning an alumni event at the Oregon Historical Society in February, in association with the 150<sup>th</sup> OSU anniversary celebration.

A new event this year was a OSU CVM Pet Fair held in the Portland area. This event included talks and information by student ambassadors (volunteer veterinary students) and it was quite successful. Plans are to repeat the Fair in 2018, and to hold it at the Oregon Humane Society. The CVM has close relationships with the Oregon Veterinary Medical Association (OVMA) and the Portland Veterinary Medical Association. Both of these organizations serve Oregon veterinarians including both OSU CVM alumni and others. CVM faculty have spoken at PVMA and OVMA-sponsored continuing education events and monthly articles by OSU CVM faculty are published in the newsletters of both organizations. The OVMA sponsors the white coat ceremony for incoming CVM students by providing white coats, personalized name badges and stethoscopes. The PVMA has an active mentoring program for our students.

The CVM relationship with the Oregon Humane Society is close and we have jointly embarked on the fund-raising phase of planning for a new building at the OHS site in Portland. The new building will house a primary care clinic, forensics laboratory and space for animal rehabilitation. It will also include educational facilities for OSU CVM students to get

additional hands-on training using the animal, and other resources available at the OHS>

d. Advance impact and reach in other ways

CVM students, faculty and staff continue to provide veterinary services to remote, underserved populations in Nicaragua and on the Warm Springs reservation in Oregon.

**Initiatives that align with:**

a. Enhancing diversity

Increasing diversity of faculty, staff and students

The percentage of under-represented minority students admitted to the professional program increased to an all-time high of 24% for the entering Class of 2021. This is approximately twice as high as the percentage we've admitted in the past. It remains to be seen if this is a trend or a one-time anomaly. However, the changes we've made to a holistic admissions process, increased recruiting efforts, and increased awareness of the need to diversify the veterinary profession may have all had an impact.

We have instituted a Diversity Committee, comprised of faculty, staff, and students. Their charge is to develop strategies and actionable items to foster a community of diversity and inclusion for our students, faculty, and staff within the college. They are working with existing student groups including VOICE (Veterinary Students as One In Culture and Ethnicity) and Broad Spectrum (national organization whose mission is to connect, support and empower community for LGBT students and allies across veterinary education) to provide initiatives and programs for the CVM.

We are also working closely with Jane Waite, Senior Associate for Social Justice Learning and Engagement who very graciously provided College of Veterinary Medicine-specific multiple two hour workshops at the CVM in areas of Social Justice, Equity, and Inclusion throughout spring and summer of 2017. These workshops were offered to faculty, staff, and students and were adapted from her regular curriculum offered to the University. She has continued to work with our Diversity Committee on program development.

We are working with Dr. Phil Nelson, dean of the College of Veterinary Medicine at Western University in Pomona, California, to plan the first west coast Iverson Bell Summit in February, 2018. The national Iverson Bell Symposium is named for the first African-American veterinarian to hold the position of Vice-President in the American Veterinary Medical Association. The national Symposium is held every two years and its primary goal is to promote diversity and inclusion in academic veterinary medicine. The west coast regional summit will provide an opportunity for networking with regional colleagues.

Developing comprehensive work-life balance programs

In August, 2016, Dr. Alex Rowell became the first on-site counselor at the CVM and he has added a great service and increased visibility to our commitment to wellness (physical, mental, and emotional) for our students, faculty, and staff. In addition to providing one-on-one counseling, Dr. Rowell sends weekly messages to the CVM regarding wellness, provides

periodic noon seminars on important topics (such as study skills and time management), and participates in activities of the College, such as the student-initiated Wellness Week. He is developing an elective course on Diversity and Inclusion and was instrumental in bringing the ever-popular, on-site yoga class back to the CVM. He also developed a written protocol for dealing with a distressed student-which is part of a larger, important, suicide prevention strategy.

b. Stewardship of resources

Veterinary Teaching Hospital (VTH) total revenue increased 2.72% last fiscal year, from \$7,521,506 to \$7,725,760. This included a 7.13% growth in the large animal clinic, and 1.68% growth in the small animal hospital, which was significantly decreased because we were short one orthopedic surgeon for this entire period. The increase in expenses was 4.7%, primarily due to salary increases for veterinary technicians.

Gifts and pledges to the College through the OSU Foundation totaled 2016 \$ 4,430,942 for 2016 and \$ 3,979,468 for 2017. Over \$300,000 in scholarships was distributed to students in May, 2017. Two endowed professorships provide funds for research and faculty support in the areas of diagnostic imaging and camelid medicine and surgery.

A major goal of the CVM is being realized as we are using saved funds and have secured internal bank loans to plan the first major construction project in almost 10 years. The plans are nearly complete for addition of: 1) a small animal hospital wing for expansion of cardiology, oncology and internal medicine, 2) a wing for radiation oncology (housing a linear accelerator) and 3) a new classroom with seating for 100 students. The class size has been increased from 56 to 72 students per class to help provide recurring funds for additional faculty and staff in key areas including clinical neurology and dermatology. This will allow us to add clinical services, increase patient numbers, add specialty training in new areas for our students and house officers, and ensure the financial stability of the College as both capabilities and costs increase.

c. Technology as a strategic asset

The CVM had a comprehensive upgrade of its wireless service in August/September and essentially completed the process of transferring its electronic veterinary hospital management system to a new platform. The Oregon Veterinary Diagnostic Laboratory optimized the use of Q-Pulse, its quality control document management system for training and records related to quality control. These processes were all promoted by the additional IT staff hired in 2016.

c. Invest in IT to enable educational innovation

Technology-enhanced educational innovation included the widespread use of personal device polling systems (Poll Everywhere) and lecture capture, which are widely used in the CVM. We have also purchased (not delivered yet) a virtual dissection table for teaching multi-species anatomy and pathology and have a CVM faculty-designed virtual reality program for teaching anatomy and diagnostic imaging using an Oculus Rift-based virtual reality system.

**Appendix 1** – Continuing and new extramurally-funded research projects

<b>CVM Investigator</b>	<b>Title</b>	<b>Agency</b>
Beechler, Brianna	The host as an ecosystem: linking the African buffalo nasal microbiome to host traits, behavior and disease.	American Genetic Assn.
Bermudez, Luiz	Raptor - OSU Collaboration Quinsair against NTM in vitro and in vivo	Horizon Pharma
Bermudez, Luiz	Development of ciprofloxacin liposomes for the treatment of lung infection caused by <i>M.avium</i> or <i>M.abscessus</i>	NIH
Bermudez, Luiz	SPER Testing novel gyrase inhibitor	Spero Therapeutics
Bermudez, Luiz	HP contamination analysis	Hewlett-Packard Company
Bermudez, Luiz	Genes Associated with <i>M. avium</i> Pathogenesis	NIH
Bermudez, Luiz	Efficacy testing of novel liposomal formulations of streptomycin in vitro and in vivo models of NTM	Insmed
Bermudez, Luiz	Treatment of NTM lung infection with levofloxacin	Raptor Therapeutics
Bildfell, Robert	ORHA West Nile Diagnostics	Oregon Health Authority
Curran, Katie	COTC021: Evaluation of Orally Administered mTOR Inhibitor Rapamycin in Dogs in the Adjuvant Setting with Osteosarcoma	Morris Animal Foundation
Curran, Katie	COTC 022: A contemporaneous Controlled Study of the Standard of Care (SOC) in dogs with Appendicular Osteosarcoma	Morris Animal Foundation
Dolan, Brian	Chlamydia-induced host protein degradation and its impact on the host immune species	NIH
Dolan, Brian	The role of Ubiquitin and Ubiquitin-Like Proteins in Direct Antigen Presentation	NIH
Gordon, Emma	Pharmacokinetics and safety of oral gabapentin administration in camelids	Northwest Camelid Foundation
Hall, Jean	Establishing the Utility of Urinary and Serum Biomarkers for Detecting Subclinical Kidney Injury in Dogs and Cats Treated with Potentially Nephrotoxic Drugs	IDEXX Inc.
Hase, Claudia	Diagnostic tools for managing vibriosis in marine shellfish hatcheries	USDA
Hase, Claudia	Catalyzing New International Collaborations: Developing diagnostics	National Science Foundation

	for <i>Vibrio coralliilyticus</i> and coral vibriosis	
Heidel, Jerry	NAHLN: OR 2016-2017	USDA
Hase, Claudia	Community and population analysis of microbes in shellfish hatcheries	USDA
Hase, Claudia	RAPID: Collaborative Research: Investigation of the transmission, infectivity and differential host specificity of a coral disease outbreak on Florida reefs	NSF Directorate for Biological Sciences
Huber, Michael	Investigation in Lumbosacral	American Quarter Horse Foundation
Jin, Ling	Developing new test and control strategies against KHV latent infection	Associated Koi Clubs of America
Johns, Deidre	Fragment based drug discovery	Medical Research Foundation of Oregon
Kent, Mike	A Zebrafish Model to Study the Role of the Microbiota in the Etiology of Intestinal Cancer	NIH
Magnusson, Kathy	Human Maze and as a memory test	NIH
Medlock, Jan	Cross-national differences in vaccination as unselfish behavior	NSF
Jolles, Anna	Microparasite-Macroparasite Interactions:	NSF
Jolles, Anna	Persistence of a highly contagious pathogen: ecological and evolutionary mechanisms in foot-and-mouth disease virus.	USDA
Magnusson, Kathy	Cross-training in Human Functional Imaging for Cognitive Aging Research	NIH
Milovancev, Milan	Predict histologic tumor free	American College of Veterinary Surgeons
Moulton, Hong	Multiscale analysis of influenza host-pathogen interactions: Fluomics	NIH
Moulton, Hong	Development of a novel platform to enhance intracellular bioavailability of antisense morpholino oligomers	Najit Technologies
Nemanic, Sarah	Merial Ltd. Veterinary Scholars Program	Merial Limited
Nemanic, Sarah	Comparison of Abdominal Computed Tomography and Ultrasound for Detection of Mast Cell Neoplasia in the Liver and Spleen in Dogs	American College of Veterinary Radiology
Ramsey, Steve	Systems analysis of transcriptional interactions underlying foam cell formation.	NIH



Ramsey, Steve	Uncovering molecular mechanisms and prognostic markers in canine bladder cancer through an omics-based comparative oncology approach	American Cancer Foundation
Ramsey, Steve	Atherosclerosis regression	New York University
Rockey, Daniel	Development of new therapy for Chlamydia disease	NIH
Rockey Daniel	Molecular target of a novel broad-spectrum antiviral and antibacterial compound	NIH
Rockey, Daniel	Novel Antimicrobial Compound Targeting Chlamydiae and Neisseriae	Medical Research Foundation of Oregon
Rose, Sasha	Treatment of nontuberculous mycobacterial infections using novel liposomal amikacin candidates	Insmed Incorporated
Sarker, Mahfuzur	Mechanisms of bacterial spore germination and its heterogeneity	DOD-US Army
Scollan, Kate	The effects of sotalol on left ventricular systolic function and heart rate control in normal dogs and dogs with severe subaortic stenosis	American College of Veterinary Internal Medicine
Shulzhenko, Natalia	Anti-IL-12p40 Treatment of CVID Enteropathy: Gene Expression/Microbiota Analysis”	NIH
Stieger-Vanegas, Susanne	Development and Evaluation of a Computed Tomography Protocol of the Abdomen to Facilitate the Differentiation Between Phytobezoar and Enteritis in Camelids with Colic Symptoms	Northwest Camelid Foundation
Stieger-Vanegas, Susanne	Comparison of lung ultrasound, radiography, and computed tomography to histopathology in juvenile cattle with naturally acquired respiratory disease	American College of Veterinary Radiology
Tornquist, Susan	Indicators of chronic anemia in alpacas	Alpaca Research Foundation
Townsend, Katie	Functional Testing of a Novel Bioabsorbable Dural Clip in a Swine Model	NeuroMedica LLC
Troyer, Ryan	Novel Feline Gammaherpesvirus	Morris Animal Foundation

## Appendix 2 International Experiences for Students 2016-2017

### International students at the OSU-CVM summer 2017

<b>Student Name</b>	<b>Country of Origin</b>
Alexis Perret	France
Camille Lebrun-Tessier	France
Prachi Tosniwal	India
Mizuki Tsukamoto	Japan

### CVM students studying internationally 2016-2017 academic year

<b>Student Name</b>	<b>Country Traveled To</b>
Abby Juskiewicz	South Africa
Morgan Movius	South Africa
Claire Couch	South Africa
Caroline Glidden	South Africa
Kristin Wineinger	India
Maia Titcomb	India
Arielle Rukke	India
Kellie Riper	India
Samantha Lastufka	India
Gary Jimmerson	India
Julie Corbett	France
Alexa Richmond	Nicaragua
Alix Elsen	Nicaragua
Abby Juskiewicz	Nicaragua
Amanda Greenstein	Nicaragua
Brendan Doiron	Nicaragua
Andrew Schlueter	Nicaragua
Brittany Gardner	Nicaragua
Courtney Dewlaney	Nicaragua
Dina Regev	Nicaragua
Jean-Paul Reboulet	Nicaragua
Gary Jimmerson	Nicaragua
Erin Flannery	Nicaragua
Jeff Nelson	Nicaragua
Julie Corbett	Nicaragua
Julie DeDioniso	Nicaragua
Karen Pinochi	Nicaragua
Kristin Wineinger	Nicaragua
Maia Titcomb	Nicaragua
Michelle Flores	Nicaragua
Pepa Roth	Nicaragua
Saum Hadi	Nicaragua
Staci Nellor	Nicaragua

### **Appendix 3 Strategic International Research Partnerships**

*International research partners working at the College of Veterinary Medicine in Corvallis:*

Essam Elmarakby (Egypt)

Junfa Yuan (China)

Dan Xu (China)

Yingyu Chen (China)

*CVM faculty working in international locations or with international partners:*

Anna Jolles: South Africa National Park Service and University, England

Natalia Shulzhenko: Brazil, University of Sao Paulo

Luiz Bermudez: Brazil, University of Santa Catarina and University of Wuhan, China

Ling Jin: China, University of Nanjin and University of Wuhan

Mahfuz Sarker: Saudi Arabia and Japan

Manoj Pastey: India, Veterinary School of Bangalore

Claudia Hase: Australia and Germany

Brianna Beechler: South Africa National Park Service



# Performance on College-level metrics – Appendices 4- 7

Oregon State University  
**College of Veterinary Medicine**  
 Annual Academic Program Review 2016-17

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	% Change '15 - '17
<b>Faculty FTE</b>																
Professorial	27.7	24.4	26.8	40.5	42.7	47.5	51.4	48.4	47.7	47.7	51.6	50.6	53.7	51.5	57.9	7.8%
Non-Professorial	34.8	35.3	33.0	42.2	48.3	48.4	51.1	55.5	56.5	49.1	45.6	49.3	53.1	58.8	61.9	16.6%
<b>Total Faculty FTE</b>	<b>62.5</b>	<b>59.7</b>	<b>59.8</b>	<b>82.7</b>	<b>91.0</b>	<b>95.9</b>	<b>102.5</b>	<b>103.9</b>	<b>104.2</b>	<b>96.8</b>	<b>97.2</b>	<b>99.9</b>	<b>106.8</b>	<b>110.3</b>	<b>119.8</b>	<b>12.2%</b>
E&G Tenured/Tenure Track	19.4	16.9	17.2	27.4	26.3	27.3	27.3	26.7	27.4	28.3	32.9	31.6	32.7	29	28.2	-13.8%
<b>Faculty Headcount</b>																
Professorial Non-	29	26	28	42	45	49	54	51	51	52	56	54	57	56	63	10.5%
Professorial	37	39	36	44	51	50	55	59	62	56	51	55	61	67	68	11.5%
<b>Total Faculty Headcount</b>	<b>66</b>	<b>65</b>	<b>64</b>	<b>86</b>	<b>96</b>	<b>99</b>	<b>109</b>	<b>110</b>	<b>113</b>	<b>108</b>	<b>107</b>	<b>109</b>	<b>118</b>	<b>123</b>	<b>131</b>	<b>11.0%</b>
E&G Tenured/Tenure Track																
0% E&G Funded 1%-	0	0	2	1	1	1	1	1	1	1	1	1	0	0	0	-
33% E&G Funded 34%-66%	1	1	1	2	4	5	4	5	0	1	0	0	1	1	1	0.0%
E&G Funded 67%-99% E&G	3	3	2	3	5	3	4	3	9	8	8	7	6	6	6	0.0%
Funded 100% E&G Funded	4	4	5	3	3	3	3	5	3	3	3	2	3	2	2	-33.3%
<b>Total Tenured/Tenure Track</b>	<b>15</b>	<b>12</b>	<b>12</b>	<b>23</b>	<b>20</b>	<b>22</b>	<b>22</b>	<b>20</b>	<b>20</b>	<b>21</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>24</b>	<b>24</b>	<b>-11.1%</b>
	<b>23</b>	<b>20</b>	<b>22</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>34</b>	<b>34</b>	<b>33</b>	<b>34</b>	<b>38</b>	<b>36</b>	<b>37</b>	<b>33</b>	<b>33</b>	<b>-10.8%</b>
<b>SCH (Academic Year)</b>																
Undergraduate	176	129	119	108	108	108	121	148	162	137	105	107	72	108	72	0.0%
Lower Division	80	96	119	108	108	108	113	142	136	137	103	99	72	108	72	0.0%
Upper Division	96	33	0	0	0	0	8	6	26	0	2	8	0	0	0	-
Graduate	77	100	116	153	138	118	55	106	214	424	532	636	571	773	686	20.1%
First Professional	3861	4395	7420	10016	10811	10778	10929	11676	11908	12064	12007	12031	12210	12059	11812	-3.3%
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
<b>TOTAL SCH</b>	<b>4114</b>	<b>4624</b>	<b>7655</b>	<b>10277</b>	<b>11057</b>	<b>11004</b>	<b>11105</b>	<b>11930</b>	<b>12284</b>	<b>12625</b>	<b>12644</b>	<b>12774</b>	<b>12853</b>	<b>12940</b>	<b>12570</b>	<b>-2.2%</b>
<b>Duplicated Major Count</b>																
Undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Graduate	4	2	2	4	3	4	4	4	7	12	15	19	12	7	2	-83.3%
First Professional	70	81	134	182	196	192	196	211	217	222	223	223	226	223	219	-3.1%
<b>TOTAL Major Count</b>	<b>74</b>	<b>83</b>	<b>136</b>	<b>186</b>	<b>199</b>	<b>196</b>	<b>200</b>	<b>215</b>	<b>224</b>	<b>234</b>	<b>238</b>	<b>242</b>	<b>238</b>	<b>230</b>	<b>221</b>	<b>-7.1%</b>

Oregon State University  
**College of Veterinary Medicine**  
 STRATEGIC PLANNING METRICS 2016-2017

**PART 1**

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
<b>Goal 1. Provide a Transformative Educational Experience for all Learners.</b>															
1.3 First Year Retention Rate (College/University)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1.4 6-Year Graduation Rate (College/University)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1.5 Junior Transfer 4-Year Graduation Rate (College/University)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1.6 % US Minority Students	1.4%	3.6%	3.7%	3.2%	5.0%	5.1%	4.5%	6.5%	10.7%	11.5%	10.1%	12.0%	10.5%	11.3%	15.4%
1.7 % International Students	1.0%	1.0%	1.0%	2.0%	1.0%	2.0%	4.0%	4.0%	4.0%	3.0%	3.0%	3.0%	2.0%	1.3%	0.9%
1.8 % High Achieving Oregon High School Graduates	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

<b>Goal 3. Strengthen Oregon State's Impact and Reach throughout the state and beyond.</b>															
3.2 Invention Disclosures	0	0	0	1	2	2	5	3	3	1	1	2	2	4	1

<b>College Specific Metrics</b>															
First Year Retention Rate	100.0	97.9	97.9	97.9	98.0	88.0	96.0	98.0	94.0	92.0	93.0	95.0	98.0	96.0	100.0
First Professional Students Admitted/ Applicants	36/ 507	48/ 659	48/ 669	51/ 672	49/ 658	48/632	50/554	54/516	56/463	53/508	54/751	51/895	51/953	50/832	55/970
Graduate Students Admitted/ Applicants	3/ n/a	1/ 12	0/ 11	3/ 9	1/ 6	3/11	2/8	3/11	5/17	10/10	3/3	3/3	-	-	-

Oregon State University

**College of Veterinary Medicine**  
Annual Academic Program Review 2016-2017

**PART 2**

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	% Change '15 - '17
<b>Resources (Fiscal Year)</b>																
E&G - Ending Budget (\$)	9,140,514	13,126,178	14,164,218	13,587,963	15,708,603	18,890,712	18,974,112	18,423,066	20,246,622	21,643,790	22,127,688	23,574,892	24,358,881	26,297,237	28,077,161	15.3%
<b>Total R&amp;D Expenditures (\$)</b>	<b>973,245</b>					<b>2,313,693</b>	<b>3,402,872</b>	<b>3,100,921</b>	<b>3,937,470</b>	<b>2,902,614</b>	<b>2,447,856</b>	<b>2,489,359</b>	<b>2,242,111</b>	<b>2,131,462</b>	<b>FEB 2018</b>	-
Awards from Grants and Contracts* (#)	24	13	17	42	35	36	32	53	34	30	24	31	21	29	24	14.3%
Awards from Grants and Contracts (\$)	2,336,356	829,067	1,583,444	2,168,870	2,697,040	2,084,053	4,111,116	3,545,550	2,618,166	1,956,307	1,681,511	3,906,737	1,364,136	2,917,345	2,911,161	113.4%
<b>Private Giving (\$)</b>						<b>2,031,869</b>	<b>2,603,264</b>	<b>1,566,990</b>	<b>852,854</b>	<b>1,214,819</b>	<b>1,803,830</b>	<b>1,248,177</b>	<b>2,131,745</b>	<b>1,764,749</b>	<b>1,764,749</b>	<b>41.4%</b>

Oregon State University  
**College of Veterinary Medicine**  
 Annual Academic Program Review 2016-17

**PART 3**

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09		2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	% Change '15 - '17
<b>Degrees (academic year)</b>																	
Bachelor	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	-
Master	0	1	1	0	1	2	1		1	1	1	2	6	6	2	4	-33.3%
Doctorate	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	-
First Professional	34	33	35	37	50	44	48		43	49	58	55	52	57	59	51	-10.5%
<b>Total Degrees</b>	<b>34</b>	<b>34</b>	<b>36</b>	<b>37</b>	<b>51</b>	<b>46</b>	<b>49</b>		<b>44</b>	<b>50</b>	<b>59</b>	<b>57</b>	<b>58</b>	<b>63</b>	<b>61</b>	<b>55</b>	<b>-12.7%</b>