Refereed Journals


**Non-Refereed Journals**


**LIMITED DISTRIBUTION**

**Thesis**


**Handbook, Textbook, Proceeding**


1987 Morgan JP, Miyabayashi T. Practice in Radiographic Diagnosis. Sansuishobo Co., Ltd., Tokyo, Japan. (133 pages; in Japanese)


Reports


**TRANSLATION (In Japanese)**


**RESEARCH ABSTRACTS**

1. 1983 Miyabayashi T, Morgan JP. Radiographic changes in the vertebral column of the geriatric Beagle dogs. Annual Meeting of the American College of Veterinary Radiology, Chicago, IL, November 16-18.


6. 1985 Miyabayashi T, Morgan JP. Aging changes in the spine of the Beagle dog. The 10th World Congress. World Small Animal Veterinary Association, Tokyo, Japan, November 8-10.


17. 1993 Miyabayashi T, Takiguchi M. Chemonucleolysis with chymopapain followed by magnetic resonance imaging: A pilot study. Annual Meeting of the American College of Veterinary Radiology, Chicago, IL, December 1-4.


23. 1995 Miyabayashi T, Smith M, Tsuruno S, Clarkson RB. Comparison of fast spin-echo (RARE) and conventional spine-echo MRI techniques in canine lumbar spine. Annual Meeting of the American College of Veterinary Radiology, Honolulu, August 5-11.


25. 1995 Estes LL, Miyabayashi T, Masuda K, Tsuruno Y. Use of magnetic resonance imaging to assess repair process of acutely injured intervertebral disks in dogs. 1995 Fall Conference, College of Veterinary Medicine, University of Illinois, Urbana, October 12-14.

26. 1996 Masuda K, Miyabayashi T, Eurell TE. Chondrocyte culture for canine intervertebral discs, using alginate spheres. 1996 Fall Conference, College of Veterinary Medicine, University of Illinois, Urbana, October 3-5.

27. 1997 Masuda K, Miyabayashi T, Eurell TE. Alginate microsphere culture technique for canine intervertebral disc chondrocytes. Annual Meeting, American College of Veterinary Surgeons, Orlando, October


37. 2000 West CL, Miyabayashi T, Maeda S. Sulfation patterns of chondroitin sulfate synthesized by proliferating articular and intervertebral disk chondrocytes in three dimensional alginate microsphere cultures. Research Day, College of Veterinary Medicine, University of Florida. 10/4.


45. 2001 Lewis CM, Miyabayashi T, Uhl E. Acute effects of carprofen on liver cells of the dogs. Research Day, College of Veterinary Medicine, University of Florida. 9/19.


48. have not updated yet.
# RESEARCH GRANT

<table>
<thead>
<tr>
<th>Year</th>
<th>Project Description</th>
<th>PI/Co-investors</th>
<th>Funding Details</th>
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<tbody>
<tr>
<td>1995</td>
<td>Computer-assisted instruction in veterinary radiology.</td>
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</table>
1995
Computer-assisted instruction in normal radiographic anatomy of appendicular skeleton for the first and third year veterinary students.
PI: Miyabayashi T. Co-invest: Pijanowski GJ, Kneller SK.
Requested amount: $5,230. Funded amount: $5,230 combined with "Computer-assisted instruction in veterinary radiology".
CVM Computer-Assisted Instructional Grants, University of Illinois.

1996
Development of computer-assisted case-based learning program in veterinary imaging: Radiology and ultrasound.
PI: Miyabayashi T. Co-invest: Kitchell BE, Sisson DD, Kneller SK.
CVM Computer-Assisted Instructional Grants, University of Illinois.

1996
Development of a culture system of canine intervertebral disks: A pilot study.
PI: Miyabayashi T. Co-invest: Eurell TE.
$3,000. University of Illinois Development Fund.

1996
Chondrocyte culture for canine intervertebral disc, using alginate microspheres.
PI: Miyabayashi T. Co-invest: Masuda K, Eurell TE.
$1,000. University of Illinois Development Fund.

1996
Magnetic resonance imaging of the spine of dachshunds. A histologic correlation.
PI: Miyabayashi T. Co-invest: Takiguchi M.
$1,000. University of Illinois Development Fund.

1997
A prospective comparison of conventional film screen radiography and computed radiography in canine myelography.
PI: Graham JP. Co-invest: Platt SR, Murphy ST, Roberts GD, Newell SM, Miyabayashi T, Harrison LM.
$3,680. CVM Fall Consolidated Faculty Research Development Award, 9/30/97 to open.

1998
Renal effects of carprofen in dogs following general anesthesia.
PI: Ko J. Co-invest: Miyabayashi T, Newell SM, Kuo WC, Nicklin CF.
$7,500. 1998 Spring Research Development Award, University of Florida, College of Veterinary Medicine.

1998
In vitro three dimensional culture technique for hip articular chondrocytes and intervertebral disk chondrocytes in dogs.
PI: Miyabayashi T. Co-invest: Maeda S, Clemmons RM
$35,965.60. Iams Company

1999
Color Doppler ultrasound analysis of the orbital and ophthalmic circulation in the glaucomatous Beagle at different stages of the disease.
PI: Gelatt KN. Co-PI: Miyabayashi T
$7,470. 1999 Spring Research Development Award, University of Florida, College of Veterinary Medicine.

1999
Effects of chondroitin sulfate/glucosamine on growth rates and proteoglycan synthesis of articular and intervertebral disk chondrocytes in dogs.
PI: Miyabayashi T. Co-I: Clemmons RM, Maeda S.
$ 8,085. The Iams Company.

1999
Effects of monolayer culture on subsequent three dimensional culture of canine intervertebral disk and articular cartilage.
PI: Miyabayashi T. Co-I: Clemmons RM, Maeda S.
$51,046.00. The Iams Company

2000
The effect of an L-type calcium channel blocker on ocular arterial hemodynamics in Beagle dogs with hereditary glaucoma.
$2,000. CVM Resident Competitive Grant Program, University of Florida.

2000
Significance of chondroitin 4-sulfate in proliferation and metabolism of canine articular and intervertebral disk chondrocytes.
PI: Miyabayashi T. Co-I: Yanagisawa A, Clemmons RM, Farese J.
$7,500.
2000 Fall Research Development Award, University of Florida, College of Veterinary Medicine.

2000
Unrestricted fund.
PI: Miyabayashi T. 10/1/00-9/31/02.
$4,576.82. $2,000.
Research Institute of Information Science and Development on Animal Medicine.

2001
Faxitron x-ray unit.
Cross AR (PI), Rapoff AJ (Co-I), Miyabayashi T (Co-I), Lewis DD (Co-I), Farese JP (Co-I). $24,900.
2001 College of Veterinary Medicine Incentive Fund Competition, University of Florida.

Evaluation of motion corrected and conventional static equine skeletal scintigraphic imaging in the detection of a phantom lesion.
Ferrell E (PI), Graham J (Co-I), Miyabayashi T (Co-I), Roberts G (Co-I). $1,976.
2001 CVM Resident Grant Competition, University of Florida. 1/1/01-12/31/01.

2002
Degenerative joint disease in cats.
Miyabayashi T (PI), Kamishina H (Co-I), Clemmons RM (Co-I)
$6,450
2002 Spring Research Development Award, University of Florida, College of Veterinary Medicine.

Grants - Not funded

1990 Effects of discography on the lumbosacral disk in dogs: Magnetic resonance imaging and histologic findings.
PI: Miyabayashi T. Co-invest: Weisbrode SE, Schrader SC.
$13,538. Canine Research Fund, The Ohio State University.

1990 Is steroid suppression of articular cartilage healing clinically significant in the equine athlete?
PI: Bertone A. Co-invest: Weisbrode SE, Bailey MQ, Miyabayashi T.
$18,000. University Seed Grant Awards, The Ohio State University.

1991 A high-detail radiographic and histologic study of the third and radial carpal bones of Standardbred and Thoroughbred horses.
PI: Miyabayashi T. Co-invest: Schneider R, Bertone AL, Weisbrode SE.
$10,500. Equine Research Fund, The Ohio State University.

1991 Computer-assisted instruction in normal musculoskeletal radiographic anatomy for the second year veterinary students.
PI: Miyabayashi T. Co-invest: Hudson AW.
$7,536. Instructional Enhancement Grants, The Ohio State University.

1992 Radiographic study on the third and radial carpal bones of racing Standardbred and Thoroughbred horses.
PI: Miyabayashi T. Co-invest: Weisbrode SE, Bertone AL.
$6,545. Equine Research Fund, The Ohio State University.

1993 Gastrointestinal ulceration in foals: detection using technetium-99m labeled sucralfate.
PI: Williams J. Co-invest: Miyabayashi T, Leveille R.
$2,500. Comparative Gastroenterology Society.

1993 Gastrointestinal ulceration in foals: detection using technetium-99m labeled sucralfate.
$4,900. Equine Research Fund, The Ohio State University.

1994 The effect of training on the radiographic, histomorphometric, and inertial properties of the equine tibia.
PI: Ruggles AJ. Co-invest: Miyabayashi T, Litsky AS, Weisbrode SE.
$9,025. Equine Research Fund, The Ohio State University.

1994 Use of magnetic resonance imaging to assess repair process of acutely injured intervertebral disks in dogs.
PI: Miyabayashi T. Co-invest: Weisbrode S, Smith M.
$13,028. Canine Research Fund, The Ohio State University.
1994 Magnetic resonance imaging of the lumbar spine in dogs: Comparison of conventional spin-echo and rapid acquisition relaxation-enhanced techniques.  
PI: Miyabayashi T.  
$2,891.50.  American Veterinary Medical Association Foundation.

1994 Magnetic resonance imaging techniques to delineate intervertebral disks and spinal cord in dogs.  
PI: Miyabayashi T.  
$1,988.  Basset Hound Club of America, Inc.

1995 Scintigraphic and radiographic correlations of carpal bone lesions in racing horses.  
PI: Miyabayashi T. Co-invest: Twardock AR, Baker GJ.  
$17,945.  Illinois Department of Agriculture Equine Research Funds.

1995 Development of computer-assisted case-based learning program in veterinary imaging.  
PI: Miyabayashi T. Co-invest: Kitchell BE, Sisson DD, Johnson AL, Haschek-Hock WM.  
$44,169.  Office of the Vice President for Academic Affairs, University of Illinois.

1998 Color Doppler ultrasound analysis of the orbital and ophthalmic circulation in the glaucomatous beagle at different stages of the disease.  
PI: Miyabayashi T. Co-PI: Gelatt KN.  
$7,470.  1998 Spring Research Development Award, University of Florida, College of Veterinary Medicine.

1999 Effects of carprofen on liver cells.  
PI: Maeda S. Co-PI: Miyabayashi T.  
$ 5,000.  Comparative Gastroenterology Society.

1999 The effect of an L-type calcium channel blocker on ocular arterial hemodynamics in Beagle dogs with hereditary glaucoma.  
$2,000.  CVM Resident Competitive Grant Program, University of Florida.

University of Florida

2002-2003  
Professional Curriculum

Fall - 02
VEM 5263 Advanced Small Animal Radiology - 60 students (Senior)  
Lectures  
Ultrasound examination of the liver  
Ultrasound examination of the spleen  
Laboratory  
Ultrasound examination of the liver and spleen  
VEM 5783 Radiology Clerkship - 5-6 students in each block (Junior)

Spring - 03
VEM 5181 Radiographic Technique (Freshman) (Course Coordinator) - 83 students  
Lectures  
Introduction and x-ray production, interaction of radiation with matter  
Accessory equipment, films, screen, film identification  
kVp and mAs; image density, detail, and contrast  
Darkroom technique, technique charts  
Artifacts  
Radiation biology and safety  
Principle of images and image interpretation  
Musculoskeletal radiology - Introduction  
Radiology of developmental diseases  
Radiology of developmental diseases #2  
Radiology of fracture healing and complications  
Radiology of neoplasia and infection  
Radiology of joint disease  
Radiology of skull  
Radiology of spine  
Discussion  
Radiology of developmental disease and fracture healing  
Radiology of neoplasia/infection and joint disease  
Radiology of skull and spine
Review of musculoskeletal radiology
VEM 5883 Advanced Radiology Clerkship - 5-6 students in each block (Senior)

2001-2002
Professional Curriculum
Fall - 01
VEM 5101  Anatomy - 80 students (Freshmen)
  Laboratory
VEM 5783  Radiology Clerkship - 5-6 students in each block (Junior)

Spring - 02
VEM 5181  Radiographic Technique (Freshman) (Course Coordinator) - 83 students
  Lectures
  Introduction and x-ray production, interaction of radiation with matter
  Accessory equipment, films, screen, film identification
  kVp and mAs; image density, detail, and contrast
  Darkroom technique, technique charts
  Artifacts
  Radiation biology and safety
  Principle of images and image interpretation
  Musculoskeletal radiology - Introduction
  Radiology of developmental diseases
  Radiology of developmental diseases #2
  Radiology of fracture healing and complications
  Radiology of neoplasia and infection
  Radiology of joint disease
  Radiology of skull
  Radiology of spine
  Discussion
  Radiology of developmental disease and fracture healing
  Radiology of neoplasia/infection and joint disease
  Radiology of skull and spine
  Review of musculoskeletal radiology
VEM 5883 Advanced Radiology Clerkship - 5-6 students in each block (Senior)

Summer - 02
VEM 5783  Radiology Clerkship - 5-6 students in each block (Junior)

Graduate/Resident Curriculum
Fall - 02
Radiology Resident Round
Known Case Conference

Spring - 02
Radiology Resident Round
Known Case Conference
VME 6971  Masters Research - 3 units

Summer - 02
VME 6910  Supervised Research - 1 unit

2000-2001
Professional Curriculum
Fall - 00
VEM 5101  Anatomy - 80 students (Freshmen)
  Laboratory
VEM 5783  Radiology Clerkship - 5-6 students in each block (Junior)

Spring - 01
VEM 5181  Radiographic Technique (Freshman) (Course Coordinator) - 83 students
  Lectures
  Introduction and x-ray production, interaction of radiation with matter
  Accessory equipment, films, screen, film identification
  kVp and mAs; image density, detail, and contrast
  Darkroom technique, technique charts
  Artifacts
  Radiation biology and safety
  Principle of images and image interpretation
  Musculoskeletal radiology - Introduction
  Radiology of developmental diseases
  Radiology of developmental diseases #2
Radiology of fracture healing and complications
Radiology of neoplasia and infection
Radiology of joint disease
Radiology of skull
Radiology of spine
Radiology of equine foot and navicular bone
Radiology of equine fetlock and carpus
Radiology of equine tarsus and stifle
Discussion
Radiology of developmental disease and fracture healing
Radiology of neoplasia/infection and joint disease
Radiology of skull and spine
Radiology of large animal skeleton
Review of musculoskeletal radiology

VEM 5883 Advanced Radiology Clerkship - 5-6 students in each block (Senior)
Summer - 01
VEM 5783 Radiology Clerkship - 5-6 students in each block (Junior)

Graduate/Resident Curriculum
Fall - 00
Radiology Resident Round
Known Case Conference
VME 6971 Masters Research - 3 units

Spring - 01
Radiology Resident Round
Known Case Conference

Summer - 01
VME 6910 Supervised Research - 1 unit

1999-2000
Professional Curriculum
Fall - 99
VEM 5101 Anatomy - 80 students (Freshmen)
Laboratory
VEM 5783 Radiology Clerkship - 5-6 students in each block (Junior)

Spring - 00
VEM 5181 Radiographic Technique (Freshman) (Course Coordinator) - 83 students
Lectures
Discussion
VEM 5883 Advanced Radiology Clerkship - 5-6 students in each block (Senior)

Summer - 00
VEM 5783 Radiology Clerkship - 5-6 students in each block (Junior)

Graduate/Resident Curriculum
Fall - 99
Resident Radiology Round
Radiology Resident Round
Known Case Conference
VME 6971 Masters Research - 3 units

Spring - 00
Resident Radiology Round
Radiology Resident Round
Known Case Conference

Summer - 00
VME 6910 Supervised Research - 1 unit

1998-1999
Professional Curriculum
Fall - 98
VEM 5101 Anatomy - 80 students (Freshmen)
Laboratory - 3 x 4 hours
VEM 5261 Diagnostic Radiology (Course Coordinator) - 75 students (Sophomore)
Lectures
Esophagus and gastric radiology
Gastric and small intestine radiology
Small intestine and large intestine
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Students/Units</th>
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<tbody>
<tr>
<td>VEM 5101</td>
<td>Anatomy</td>
<td>Freshmen</td>
</tr>
<tr>
<td>VEM 5261</td>
<td>Diagnostic Radiology</td>
<td>Sophomore</td>
</tr>
<tr>
<td>VEM 5263</td>
<td>Advanced Small Animal Radiology</td>
<td>Senior</td>
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<tr>
<td>VEM 5783</td>
<td>Radiology Clerkship</td>
<td>Junior</td>
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<tr>
<td>VEM 5181</td>
<td>Radiographic Technique</td>
<td>Freshman</td>
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<tr>
<td>VEM 5883</td>
<td>Advanced Radiology Clerkship</td>
<td>Senior</td>
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<tr>
<td>VME 6905</td>
<td>Advanced small animal radiology</td>
<td>2 units</td>
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<tr>
<td>VME 6910</td>
<td>Supervised research</td>
<td>3 units</td>
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<tr>
<td>VME 6971</td>
<td>Masters Research</td>
<td>1 unit</td>
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<tr>
<td>VME 6971</td>
<td>Masters Research</td>
<td>2 units</td>
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</table>

### Graduate/Resident Curriculum

#### Fall - 98
- Resident Radiology Round
- Radiology Resident Round
- Known Case Conference

**Fall - 97**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Students/Units</th>
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<tbody>
<tr>
<td>VEM 5101</td>
<td>Anatomy</td>
<td>Freshmen</td>
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<tr>
<td>VEM 5261</td>
<td>Diagnostic Radiology</td>
<td>Sophomore</td>
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<tr>
<td>VEM 5263</td>
<td>Advanced Small Animal Radiology</td>
<td>Senior</td>
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<td>VEM 5783</td>
<td>Radiology Clerkship</td>
<td>Junior</td>
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<tr>
<td>VEM 5181</td>
<td>Radiographic Technique</td>
<td>Freshman</td>
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<tr>
<td>VEM 5883</td>
<td>Advanced Radiology Clerkship</td>
<td>Senior</td>
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#### Spring - 99
- Resident Radiology Round
- Radiology Resident Round
- Known Case Conference

**Spring - 97**

<table>
<thead>
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<tr>
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<tr>
<td>VEM 5181</td>
<td>Radiographic Technique</td>
<td>Freshman</td>
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### 1997-98 Professional Curriculum

#### Fall - 97

<table>
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<td>Diagnostic Radiology</td>
<td>Sophomore</td>
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<td>VEM 5263</td>
<td>Advanced Small Animal Radiology</td>
<td>Senior</td>
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<tr>
<td>VEM 5181</td>
<td>Radiographic Technique</td>
<td>Freshman</td>
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#### Spring - 97

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<tr>
<td>VEM 5101</td>
<td>Anatomy</td>
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<tr>
<td>VEM 5261</td>
<td>Diagnostic Radiology</td>
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<td>VEM 5263</td>
<td>Advanced Small Animal Radiology</td>
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<tr>
<td>VEM 5783</td>
<td>Radiology Clerkship</td>
<td>Junior</td>
</tr>
<tr>
<td>VEM 5181</td>
<td>Radiographic Techniques</td>
<td>Freshman</td>
</tr>
</tbody>
</table>
VEM 5883 Advanced Radiology Clerkship - 5-6 students in each block (Senior)

Summer - 97
VEM 5783 Radiology Clerkship - 5-6 students in each block

Graduate/Resident Curriculum
Fall - 97
Resident Radiology Round
Radiology Resident Round
Known Case Conference
Review of Radiology Topics
VEM 6936 Advanced veterinary medicine
  Gastrointestinal imaging
Spring - 98
VME 6905 Problems in Veterinary Medical Sciences - 1 MS student
VME 6971 Thesis - 1 MS student
Resident Radiology Round
Radiology Resident Round
Known Case Conference
Review of Radiology Topics
Summer - 98
VME 6905 Problems in small animal radiology

University of Illinois

1996-97
Professional Curriculum
Summer - 96
VCM303 Radiology Rotation - 5-7 students in each block
Fall - 96
VB300 Gross Anatomy - 4 units - 100 students
  Lectures
  Radiographic Anatomy of Thorax
  Radiographic Anatomy of Abdomen
VCM303 Radiology Rotation - 5-7 students in each block
VCM392 Small Animal Abdominal Ultrasound - 10 students
  Lectures (1 hour with 1 hour laboratory)
  Liver. Normal and abnormal findings
  Spleen. Normal and abnormal findings
  Kidneys. Normal and abnormal findings
  Urinary bladder. Normal and abnormal findings
  Gastrointestinal tract/Adrenal glands
Spring - 97
VCM303 Radiology Rotation - 5-7 students in each block
VCM367 Radiology - 3 units - 78 students
  Lectures
  Radiology of Abdomen
  Abdominal Ultrasound
  Radiology of Gastrointestinal System 1
  Radiology of Gastrointestinal System 2
  Radiology of Urogenital System 1
  Radiology of Urogenital System 2
  Radiology of Skull and Spine
Laboratory
  General Abdomen
  Radiology of Gastrointestinal Diseases
  Radiology of Urogenital Diseases
  Alternate Imaging
  Radiology of Skull and Spinal Diseases
VCM392 Equine Ultrasound - 0.25 units
  Flexor tendons
  Other tendons
  Thorax and abdomen

Graduate Curriculum
Summer - 96
VCM493 Radiology Resident Round - 1 unit - 2 students
Fall - 96
VCM492 Radiation Physics - 1 unit - 1 student
   Lectures
      Fluoroscopic imaging/Viewing and recording the fluoroscopic image
      Radiographic image/Geometry of the radiographic image
      Xeroradiography
      Digital radiography
VCM493 Radiology Resident Round - 1 unit - 2 students
VCM492 Small Animal Abdominal Ultrasound - 0.25 units - 4 students
   Lectures (1 hour)
      Liver. Normal and abnormal findings
      Spleen. Normal and abnormal findings
      Kidneys. Normal and abnormal findings
      Urinary bladder. Normal and abnormal findings
      Gastrointestinal tract/Adrenal glands

Spring - 97
VCM303 Radiology Rotation - 5-7 students in each block
VCM493 Advanced Radiology - 3 units - 1 student
   Lectures
      Radiology of Abdomen
      Abdominal Ultrasound
      Radiology of Gastrointestinal System 1
      Radiology of Gastrointestinal System 2
      Radiology of Urogenital System 1
      Radiology of Urogenital System 2
      Radiology of Skull and Spine
   Laboratory
      General Abdomen
      Radiology of Gastrointestinal Diseases
      Radiology of Urogenital Diseases
      Alternate Imaging
      Radiology of Skull and Spinal Diseases
VCM392 Equine Ultrasound - 0.25 units
      Flexor tendons
      Other tendons
      Thorax and abdomen

1995-96
Professional Curriculum
Summer - 95
VCM303 Radiology Rotation - 5-7 students in each block
Fall - 95
VB208 Gross Anatomy - 4 units - 87 students
VCM303 Radiology Rotation - 5-7 students in each block
Spring - 96
VCM303 Radiology Rotation - 5-7 students in each block
VCM367 Radiology - 3 units - 78 students
   7 Lectures
   5 Laboratory
VCM394 Small Animal Abdominal Ultrasound - 2 students

Graduate Curriculum
Summer - 95
Radiology Resident Round
Fall - 95
VCM492 Radiation Physics - 1 unit - 4 students
VCM493 Radiology Resident Round - 1 unit - 2 students
Spring - 96
VCM492 Advanced Radiology (7 lectures) - 1 unit - 2 students
VCM493 Radiology Resident Round - 1 unit - 2 students
VCM492 Small Animal Abdominal Ultrasound - 2 students
1994-95
Professional Curriculum
Winter Semester - 95
CVM367 Radiology - 3 units - 87 students
   Lectures
Diagnostic Ultrasound
Skeletal Radiology #1 (Introduction and Developmental Disease)
Skeletal Radiology #2 (Metabolic Bone and Degenerative Disease)
Skeletal Radiology #3 (Inflammatory Disease)
Skeletal Radiology #4 (Neoplastic Disease and Fracture Healing)
Skull and Spine
Laboratories (class is divided into two groups)
Alternate Imaging
Skeletal Radiology #1
Skeletal Radiology #2
Skull and Spine
VCM303 Radiology Rotation - 5-7 students in each block
Clinicopathologic Conference 2/23
Clinicopathologic Conference 4/20

The Ohio State University
1993-94
Professional Curriculum
Spring Quarter - 94
VM700.07 Applied Veterinary Medicine - 3 units - 32 students
VCS793 Independent Study (Advanced Radiologic Diagnosis) - 1 units - 9 students
Winter Quarter - 94
VM607 Musculoskeletal System - 6 units - 130 students
   Lectures (7 lectures)
   Laboratories (6 sessions)
VM621 Applied Veterinary Medicine II - 4 units - 64 students.
   Radiology hospital rotation (3rd year) - Approximately 2 weeks.
VM700.05 Equine Medicine and Surgery - 5 units - 32 students.
   Equine radiology - introduction (4th year)
VM700.07 Applied Veterinary Medicine - 3 units - 32 students.
   Radiology hospital rotation (4th year) - Approximately 3 weeks.
VCS793 Independent Study (Small Animal Ultrasound) - 2 units - 4 students
Fall Quarter - 93
VM622 Applied Veterinary Medicine Clinics - 4 units - 64 students.
   Radiology hospital rotation (3rd year)
VM700.07 Applied Veterinary Medicine - 3 units - 32 students.
   Radiology hospital rotation (4th year)
VM700.05 Equine Medicine and Surgery - 5 units - 32 students.
   Equine radiology - introduction (4th year)
Summer Quarter - 93
VM700.07 Applied Veterinary Medicine - 3 units - 32 students.
   Radiology hospital rotation (4th year)
VM700.05 Equine Medicine and Surgery - 5 units - 32 students.
   Equine radiology - introduction (4th year)

Graduate Curriculum
Resident Radiology Rounds - All quarters
VCS793 Independent Study - Su 93 - 3 units - 1 student
   Radiology/pathology correlation on interesting clinical cases.
VCS696 Veterinary Medical Sciences - Sp 93 - 2 units - 15 students
   Lectures
   Computed tomography
   Magnetic resonance imaging
VCS780 Advanced Diagnostic Veterinary Radiology - Wi 94 - 2 units - 15 students
   Lectures
   Radiographic Evaluation of Developmental Bone Disease
   Radiographic Evaluation of Neoplastic Bone Disease
   Radiographic Evaluation of Joint Disease
   Laboratory (case discussion)
   Radiographic Evaluation of Developmental Bone Disease
   Radiographic Evaluation of Neoplastic Bone Disease
   Radiographic Evaluation of Joint Disease

Previous years
1992-93
VM 607 Musculoskeletal System
VM622 Applied Veterinary Medicine Clinics (3rd year)
VM700.07 Applied Veterinary Medicine (4th year)
VM700.05 Equine Medicine and Surgery (4th year)
VCS793 Independent Study (Advanced radiologic diagnosis)
Resident Radiology Rounds - All quarters
VCS969 Veterinary Surgical Sciences
Alternate imaging

**1991-92**
VM 607 Musculoskeletal System
VM622 Applied Veterinary Medicine Clinics (3rd year)
VM700.07 Applied Veterinary Medicine (4th year)
VM700.05 Equine Medicine and Surgery (4th year)
VCS793 Independent Study (Small Animal Ultrasound)
Resident Radiology Rounds - All quarters

**1990-91**
VM 607 Musculoskeletal System
VM622 Applied Veterinary Medicine Clinics (3rd year)
VM700.07 Applied Veterinary Medicine (4th year)
VM700.05 Equine Medicine and Surgery (4th year)
Resident Radiology Rounds - All quarters

**University of Wisconsin-Madison**

**1989-90**
Radiology (3rd year) - 2 lectures and 1 laboratory
Radiology core and electives (4th year)
Resident Radiology Round
Resident Radiology Seminar

**1988-89**
Radiology (3rd year) - 2 lectures and 1 laboratory
Small Animal Radiographic Anatomy (1st year)
Pathology Lab: Musculoskeletal Disease (2nd year)
Large Animal Radiographic Anatomy (2nd year)
Radiology core and electives (4th year)
Resident Radiology Round
Resident Radiology Seminar

**1987-88**
Small Animal Radiographic Anatomy (1st year)
Large Animal Radiographic Anatomy (2nd year)
Pathology Lab: Musculoskeletal Disease (2nd year)
Radiology Lab (3rd year)
Radiology core and electives (4th year)
Resident Radiology Round

**CONTINUING EDUCATION SEMINARS (INVITED SPEAKER)**

**Lectures**

**Local**

<table>
<thead>
<tr>
<th>Year</th>
<th>Topic</th>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>The radiograph and its evaluation. AO/ASIF course (canine basic)</td>
<td>The Ohio State University</td>
<td>3/11.</td>
</tr>
<tr>
<td>1992</td>
<td>Radiographic interpretation. The Continuing Education Seminar</td>
<td>The Ohio State University</td>
<td>5/11.</td>
</tr>
<tr>
<td>1993</td>
<td>The radiograph and its evaluation. AO/ASIF course (canine basic)</td>
<td>The Ohio State University</td>
<td>3/20.</td>
</tr>
<tr>
<td>1993</td>
<td>Laboratory instructor. AO/ASIF course (canine basic and canine</td>
<td>The Ohio State University</td>
<td>3/18-20.</td>
</tr>
<tr>
<td>1993</td>
<td>Laboratory Coordinator. Small animal abdominal ultrasound.</td>
<td>Continuing Education Seminar at The Ohio State University</td>
<td>5/2.</td>
</tr>
<tr>
<td>Year</td>
<td>Event Description</td>
<td>Location</td>
<td>Details</td>
</tr>
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<tr>
<td>1993</td>
<td>Abdominal ultrasound - Laboratory. The Fourth Continuing Education Seminar for Japanese Veterinarians at The Ohio State University.</td>
<td>12/12. 1993</td>
<td></td>
</tr>
<tr>
<td>1994</td>
<td>The orthopedic radiograph and its evaluation. AO/ASIF course (canine basic) at The Ohio State University.</td>
<td>3/20. 1994</td>
<td></td>
</tr>
<tr>
<td>1994</td>
<td>Laboratory instructor. AO/ASIF course (canine basic and canine advanced) at The Ohio State University. 3/17-20.</td>
<td>1994</td>
<td></td>
</tr>
<tr>
<td>1994</td>
<td>Abdominal ultrasound. The Fourth Japanese Veterinary Students Seminar at The Ohio State University. 8/29.</td>
<td>1994</td>
<td></td>
</tr>
<tr>
<td>1995</td>
<td>Basic principles, Abdominal ultrasound I (2 hours). Small Animal Diagnostic Ultrasound at University of Illinois. 6/24.</td>
<td>1995</td>
<td></td>
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<tr>
<td>1995</td>
<td>Abdominal ultrasound (2 hours). 1995 Fall Conference, College of Veterinary Medicine, University of Illinois. 10/24.</td>
<td>1995</td>
<td></td>
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<tr>
<td>1996</td>
<td>Radiographic interpretation. The First Seminar for Japanese Veterinary Students at University of Illinois. 3/16. 4 hours of laboratory.</td>
<td>1996</td>
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<tr>
<td>1996</td>
<td>Abdominal ultrasound. 1996 Fall Conference, College of Veterinary Medicine, University of Illinois. 10/3. 4 hours of laboratory.</td>
<td>1996</td>
<td></td>
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<tr>
<td>2001</td>
<td>Interactive radiology laboratory. The Third Seminar for Japanese Veterinarians at University of Florida. 1/19. 3 hours of laboratory.</td>
<td>2001</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Interactive radiology laboratory. The Fourth Seminar for Japanese Veterinarians at University of Florida. 1/18. 2 hours of laboratory.</td>
<td>2002</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Interactive radiology laboratory. The Seminar for Japanese Veterinary Students at University of Florida. 8/16. 3 hours of laboratory using computers.</td>
<td>2002</td>
<td></td>
</tr>
</tbody>
</table>

**National**

<table>
<thead>
<tr>
<th>Year</th>
<th>Event Description</th>
<th>Location</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>Radiography: How to improve your radiographic techniques. 37th Annual Meeting of the Hawaii Veterinary Medical Association.</td>
<td>11/10</td>
<td></td>
</tr>
</tbody>
</table>


2001  Ultrasound laboratory - Basic course (3.5 hours). The North American Veterinary Conference. Orlando, FL. 1/11.


2001  Pulmonary pattern (45 min). The Western Veterinary Conference. Las Vegas, NV. 2/11.

2002  Ultrasound laboratory - Basic course (3.5 hours). The North American Veterinary Conference. Orlando, FL. 1/12.


2002  Film reading session (1.5 hours). The North American Veterinary Conference. Orlando, FL. 1/14.


2003  Emergency imaging (1.5 hours). The Western Veterinary Conference, Las Vegas, NV. 2/18.
2004  Ultrasound laboratory – Advanced course (3 hours).  The Western Veterinary Conference, Las Vegas, NV. 2/17.

International
1993  Abdominal ultrasound, abdominal imaging diagnosis, and thoracic imaging diagnosis (4 to 12 hours at each site).  International Seminar. Japanese Veterinary Radiology Society. 9/30-10/12. Osaka (160 attendees), Hita (70 attendees), Nagoya (200 attendees), and Tokyo (90 attendees).  Japanese Veterinary Radiology Society.
1995  Abdominal ultrasound (3 hours).  Japanese Veterinary Clinicians Association, Osaka, Japan. 8/27. 110 participants.
1995  Abdominal ultrasound (2 hours).  Inuyama Hospital. Inuyama, Japan. 8/28. 30 participants.
1995  Abdominal imaging (4 hours).  Hokkaido Veterinary Association, Imaging Society, Sapporo, Japan. 8/29. 60 participants.
1995  Abdominal ultrasound (1 hour).  Mitaka Veterinary Group.  Mitaka, Japan. 9/1. 30 participants.
1996  Radiology of thorax (4 hours).  The 19th Meeting of the Japanese College of Veterinary Diagnostic Imaging, Tokyo, Japan. 6/15. 300 participants.
1996  Radiology of skeletal diseases (4 hours).  The 19th Meeting of the Japanese College of Veterinary Diagnostic Imaging, Tokyo, Japan. 6/16. 300 participants.
1996  Abdominal imaging (14 hours), radiology of thorax (7 hours), radiology of skeletal diseases (7 hours), alternate imaging (3 hours).  International Seminar. Nippon Animal Hospital Association. 11/30-12/1 (Fukuoka), 12/3,4 (Sapporo), 12/6-8 (Tokyo), 12/10,11 (Niigata), 12/13-15 (Osaka).
1998  Skeletal radiology (2 hours) and abdominal ultrasonography (3 hours).  Kenwakai. Hiroshima, Japan. 6/9. 20 participants.
1998  Skeletal radiology (3 hours), thoracic radiology (2 hours), and myelography (2 hours).  Hassenkai. Miyazaki, Japan. 6/10. 20 participants.
1998  Thoracic radiology (2 hours).  Obihiro University. Obihiro, Japan. 6/11. 60 participants.
1998  Abdominal ultrasonography (4 hours).  Mitaka Veterinary Group.  Mitaka, Japan. 6/13. 6 participants.
1999  Animal research in USA: An example at University of Florida (2 hours).  Tottori University College of Medicine. 2/8. Yonago, Japan. 100 participants.
2000  Radiology of hip and elbow dysplasia (2 hours).  Obihiro University College of Veterinary Medicine. 6/13. Obihiro, Japan. 70 participants.
2000  Current topics on veterinary education in USA (45 min).  Annual Meeting of the Kinki Veterinary Medical Association. 9/3. Osaka, Japan. 100 attendees.

2001 Abdominal ultrasonography (4 hours). The 26th World Congress of the World Small Animal Veterinary Association. 8/10. Vancouver, Canada. 100 attendees.


2002 Diagnostic imaging of joint and neurologic disease in small animals (2 hours). Seoul National University, Special Lecture. 6/11. Seoul, Korea. 35 attendees.

2002 Abdominal ultrasound (2 hours). Seoul National University, Special Laboratory. 6/13. Seoul, Korea. 40 attendees.


CONTINUING EDUCATION SEMINARS (COORDINATOR)

At The Ohio State University
1990 The First Continuing Education Seminar for Japanese Veterinarians. 12/6-9. 7 attendees. The Ohio State University College of Veterinary Medicine.

1991 The Japanese Veterinary Students Seminar. 8/22-27. 35 attendees. The Ohio State University College of Veterinary Medicine.

1992  The Continuing Education Seminar for Japanese Veterinarians.  5/11.  7 attendees.  The Ohio State University
College of Veterinary Medicine.
1992  The Second Japanese Veterinary Students Seminar.  8/22-26.  34 attendees.  The Ohio State University College
of Veterinary Medicine.
State University College of Veterinary Medicine.
1992  Japanese equine veterinarians seminar.  12/3-6.  5 attendees.  The Ohio State University College of Veterinary
Medicine.
1993  The First Post ASIF Seminar for Japanese Veterinarians.  3/21.  20 attendees.  The Ohio State University
College of Veterinary Medicine.
1993  Laboratory Coordinator.  Small animal abdominal ultrasound.  5/2.  24 attendees.  The Ohio State University.
1993  The Third Japanese Veterinary Students Seminar.  8/23-25.  19 attendees.  University of California, Davis
School of Veterinary Medicine.
1993  The Third Japanese Veterinary Students Seminar.  8/27-30.  23 attendees.  The Ohio State University College of
Veterinary Medicine.
1993  The Fourth Continuing Seminar for Japanese Veterinarians.  12/10-14.  27 attendees.  The Ohio State University
College of Veterinary Medicine.
College of Veterinary Medicine.
1994  The Fourth Japanese Veterinary Students Seminar.  8/22-24.  20 attendees.  University of California, Davis
School of Veterinary Medicine.
1994  The Fourth Japanese Veterinary Students Seminar.  8/27-30.  21 attendees.  The Ohio State University College
of Veterinary Medicine.

At the University of Illinois
1995  The First Continuing Education Seminar for Japanese Veterinarians.  3/20-23.  30 attendees.  University of
Illinois College of Veterinary Medicine.  Total budget ($15,209.49)
1995  Small Animal Ultrasound Seminar.  6/24-25.  11 attendees.  University of Illinois College of Veterinary
Medicine/CEPS.  Total budget ($3,700)
College of Veterinary Medicine.  Total budget ($9,900)
1996  The Second Continuing Education Seminar for Japanese Veterinarians.  1/19-21.  32 attendees.  University of
Illinois College of Veterinary Medicine.  Total budget ($14,465)
Medicine.  Total budget ($17,478)

At the University of Florida
1997  The Seminar for Japanese Equine Veterinarians.  12/12-14.  20 attendees.  University of Florida College of
Veterinary Medicine.
Medicine.
1998  The Seminar for Japanese Equine Veterinarians.  12/10-12.  20 attendees.  University of Florida College of
Veterinary Medicine.
Medicine.
Veterinary Medicine.


SERVICES

At community level

1994  Member, Public Relations Committee, Parents Organization, Columbus, Japanese Language School.
1995-96 Executive Secretary, Illini Japanese Association, University of Illinois.
1996-97 Executive Secretary/Treasurer, Illini Japanese Association, University of Illinois.
2001  Coach, YMCA Spring Soccer League.
2001-03 Soccer Referee, North Florida Soccer Officials Association.

At the University of Florida

Committee Work
1997-00 Environmental Hazard and Safety. College of Veterinary Medicine.
1999 TIP committee. College of Veterinary Medicine.
1999 Phi Zeta Awards committee. College of Veterinary Medicine.
2000-03 Research committee, College of Veterinary Medicine.
2002-03 IT committee, College of Veterinary Medicine.
2003-03 Instructional Committee, College of Veterinary Medicine.

Graduate Students/Residents Advisor
1997-00 Dr. Lisa Ferretti
Resident Co-Advisor
1998-01 Dr. Meg Thompson
Resident Co-Advisor
1998-99 Dr. Sadatoshi Maeda
Master of Science Degree Program
Major Professor
2000-01 Ms. Ayano Yanagisawa
Hosting Professor
2002-03 Dr. Hiroaki Kamishina
Master of Science Degree Program
2000-2003 Dr. Eric Ferrell
Resident Co-Advisor
2002-03 Dr. Paul Rist
Resident Co-Advisor

Professional Students Advisor
1997-99 Ms. Kathy O'Donnell (Class of 2001)
1998-02 Ms. Jennifer Long (Class of 2002)
1998-02 Ms. Katie Lewis (Class of 2002)
1998-00 Mr. Alex Weber (Class of 2000)
1998-00 Mr. Barry Katz (Class of 2000)
2000-03 Mr. Brian Whitten (Class of 2004)
2000-02 Ms. Antonia Gardner (Class of 2004)
2001-02 Ms. Cheryl Rusin (Class of 2002)

Veterinary Teaching Hospital
6/97-3/98 Radiology Service Chief

At the University of Illinois
Committee Work
1996-97 Information Management Committee. College of Veterinary Medicine.

Graduate/Resident Advisor
1995-97 Dr. Kenichi Masuda
   Master of Science Degree (1997)
   Currently, PhD program in Tokyo University, Japan
   Major Professor
   Chairman, Master of Science Degree Thesis Committee
1995-97 Dr. Kerri Beck - Master of Science Degree
   Residency program co-advisor
1995-97 Dr. Scott Averill - Master of Science Degree
   Graduate Committee member
1996-97 Dr. Sharon Ryan - Master of Science Degree
   Residency program co-advisor

Professional Curriculum
1995 Advisor, Radiology Contest - Student Chapter of AVMA Convention.
1996 Advisor, College Open House (won Best Display Award in Basic Science Category)

At The Ohio State University

Committee Work
1992-94 Chairman, MRI/CT committee - Veterinary Teaching Hospital.
1992 Member, Faculty Search Committee - Equine Orthopaedic Surgery.
1993 Member, Curriculum Planning Committee - Musculoskeletal course VM607.
1994 Member, Faculty Search Committee - Radiology.

Graduate/Resident Advisor
1990-91 Dr. Jon Shiroma
   Certificate, Radiology Residency Program (1991)
   Master of Science Degree (1991)
   Diplomate, American College of Veterinary Radiology (1993)
   Currently, Staff Radiologist, MedVet, Columbus, Ohio.
   Residency program co-advisor
   Member, Master of Science Degree Thesis Committee
1990-91 Dr. Marjorie Bernbaum
   Residency program co-advisor
   Withdrawn from the program in 1991.
1991-92 Dr. Renee Leveille
   Certificate, Radiology Residency Program (1992)
   Diplomate, American College of Veterinary Radiology (1993)
   Currently, Staff Radiologist, Portland, OR.
   Residency program co-advisor
1993 Dr. Mitsuyoshi Takiguchi
   Withdrawn from the Master of Science degree program
   Currently, Lecturer at Hokkaido University, Japan
   Major professor
   Chairman, Master of Science Degree Thesis Committee
1991-94 Dr. Jamie Williams
   Certificate, Radiology Residency Program (1994)
   Diplomate, American College of Veterinary Radiology (1994)
   Currently, Associate Professor, Louisiana State University
   Residency program co-advisor
1992-93 Mr. Mark Smith (Department of Radiology, College of Medicine)
   Master of Science Degree (1993)
   Member, Master of Science Degree Thesis Committee
1994 Dr. Pete Scrivani
   Residency program advisor

Organization
1991 Organized the Bone and Orthopaedic Interest Group in College of Veterinary Medicine
Others
1993-94 Instructor, Ultrasound clinic for sonographer students from Central Ohio Technical College

At National Level

Manuscript Review
1991-92 American Journal of Veterinary Research
1992-96 Veterinary Radiology & Ultrasound
1996, 97 American Journal of Veterinary Research
1996-02 Journal of American Veterinary Medical Association

Book Review
1997 Mosby Company.

Others
1995 Ad hoc committee member, Computer Teaching, American College of Veterinary Radiology

At International Level

Committee Work/Chairman in Meetings
1994-95 Counselor, Executive Committee (Japan Veterinary Medical Association), The World Veterinary Congress in Yokohama, Japan in 1995
1996-97 Member, Site Preparation Committee for the Meeting of the International Veterinary Radiology Association (2,000), Japanese branch of International Veterinary Radiology Association.
2000-2002 Director (USA), International Veterinary Radiology Association.

Invited Co-Speaker in Japanese Programs
1991 University of California, Davis. 12/4-5. 7 attendees.
1992 The Annual Meeting of the Hawaii Veterinary Medical Association. 11/6-8. 65 attendees.
1994 Total hip replacement seminar. The Ohio State University College of Veterinary Medicine. 6/24-26. 19 attendees.
1994 The 5th Meeting of the International Veterinary Emergency and Critical Care Society. 9/29-10/2. 14 attendees.
1995 Alumuni Association of University of Osaka Prefecture, Japan. 8/26. 100 attendees.
1998 The Annual Meeting of the Hawaii Veterinary Medical Association. 11/6-8. 100 attendees.
1999 The North American Veterinary Conference. 1/10-12. 20 attendees.
2001 The Western Veterinary Conference. 2/11. 20 attendees.
2002 The Western Veterinary Conference. 2/13. 30 attendees.
2004 The North American Veterinary Conference. 1/15-17. 20 attendees.
2004 The Western Veterinary Conference. 2/16-18. 10 attendees.

Hosting Visiting Veterinarians
1992 Visiting veterinarians (Drs. Hosoido, Honda, Yoshikawa, Kawabe, Japan) 9/14-16
1992 Visiting dairy veterinarian (Dr. Wakamatsu, Japan) 11/27.
1993 Visiting Professor (Dr. Janis Gonzalez - Universidade Estadual de Londrina, Brazil) 3/15-6/30.
1993 Visiting Professor (Dr. Kazuro Miyahara - Obihiro University, Japan) 7/2/93-3/31/94.
1993 Visiting veterinary practitioner (Dr. Toshi Aoki, Japan) 9/2-10/21.
1994 Visiting veterinary radiologist (Dr. Kerstin Hansson - Swedish University, Sweden) 3/14-30.
1994 Visiting researcher (Dr. Yoshihiro Tsuruno, Japan) 4/8-12/11.
1994  Visiting veterinary radiologist (Dr. Renee Leveille - University of Montreal, Canada) 8/31-9/4.
1995  Visiting scholar (Dr. Yoshihiro Tsuruno, Japan) 1/10-7/16.
1995  Visiting scholar (Dr. Kenichi Masuda, Japan) 1/28-8/23.
1995  Visiting scholar (Dr. Sonia Crochik, Brasil) 9/16-9/13/96.
1995  Visiting veterinarian (Dr. Tokunori Taniura, Japan) 10/1-20.
1996  Visiting veterinarian (Dr. Tokunori Taniura, Japan) 9/24-10/17.
1997  Visiting scholar (Dr. Sadatoshi Maeda, Japan) 2/1-6/6.
1997  Visiting scholar (Dr. Sadatoshi Maeda, Japan) 6/9-12/31.
1998  Visiting veterinarian (Dr. Tokunori Taniura, Japan) 2/20-3/24.
1999  Visiting scholar (Dr. Tetsuaki Koreeda) 1/10-8/31.
2000  Visiting researcher (Dr. Kazunari Ibaraki) 1/18-3/25.
2000  Visiting veterinarian (Dr. Tokunori Taniura) 3/25-30.
2000  Visiting veterinarian (Dr. Shinichi Kachi) 12/10-26.
2001  Visiting veterinarian (Dr. Hiroaki Kamishina) 1/17-12/31.
2002  Visiting graduate student (Dr. Sadatoshi Maeda) 1/18-25.

**RECOGNITION/AWARD**

1994  Nominated for the 1994 Office of International Affairs Outstanding International Faculty Award, The Ohio State University