



CURRICULUM VITAE

Vinod Dasa, MD

E-mail: vdasa@lsuhsc.edu

EDUCATION

Adult Reconstruction and Sports Medicine Fellowship 2006-2007
Insall Scott Kelly Institute
Manhattan, NY

SUNY @ Buffalo Orthopaedic Surgery Residency Program 2001-2006
Buffalo, NY

Albany Medical College 1997-2001
Albany, NY
M.D.

Union College 1994-1998
Schenectady, NY
B.S./M.D. combined degree program.
B.S. degree in Biology and Sociology, *cum laude* received May 1998

Wyoming Seminary College Preparatory School 1990-1994
Kingston, PA
High School degree with *cum laude* and honors

WORK EXPERIENCE

Myoscience (consultant) 7/2013-present
Redwood City, CA

Louisiana State University Health Sciences Center 7/2013-present
Associate Professor- Adult Reconstruction and Sports Medicine
New Orleans, LA

Ochsner Kenner Medical Center 01/13-present
Medical Staff President Elect
Kenner, LA

Ochsner Health System Consultant 12/11-present
New Orleans, LA

LSUHSC Dept of Orthopedics Director of Research 08/11-present
New Orleans, LA

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| <i>Pennnington Biomedical Research Center</i> Research Medical Staff Baton Rouge, LA | 03/11-present |
| <i>Ochsner Kenner Medical Center</i> Chief of Surgery Kenner, LA | 01/11-12/12 |
| <i>CO-Director LSU Musculoskeletal Scientific Research Consortium</i> http://www.medschool.lsuhsu.edu/research/research_consortiums.aspx | 11/10-present |
| <i>Bioventus Joint Fluid Therapies Consultant</i> | 09/09-present |
| <i>LSU Orthopaedic Surgery Residency Kenner Site Director</i> Kenner, LA | 2009-present |
| <i>Louisiana State University Health Care Network</i> Clinical Director of Orthopaedics Kenner, LA | 10/2007- present |
| <i>Ochsner- Kenner Medical Center</i> Director, Dept of Orthopaedics Kenner, LA | 10/2007-present |
| <i>Louisiana State University Health Sciences Center</i> Assistant Professor- Adult Reconstruction and Sports Medicine New Orleans, LA | 08/2007-6/2013 |

LICENSING AND CERTIFICATIONS

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| LA Medical License | 2007 |
| DEA License | 2006 |
| NYS Medical License | 2006 |
| ABOS Part 1- Pass | July 24, 2006 |
| ABOS Part 2- Pass | July 21, 2009 |

PROFESSIONAL MEMBERSHIPS

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| Orthopaedic Research Society- Active Member | 2011-present |
| Osteoarthritis Research Society International- Member | 2009-present |
| American Association of Hip and Knee Surgeons- Fellow Member | 11/2008-present |

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| Arthroscopy Association of North America- Associate Member | 04/08-present |
| Louisiana Orthopaedic Association | 2008-present |
| American Academy of Orthopaedic Surgeons- Fellow | 2007-present |
| Greater New Orleans Orthopaedic Society | 2007-present |

PROFESSIONAL ACTIVITIES/COMMITTEES

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| CMS Technical Expert Panel: Patient-Reported Outcomes following Elective Total Hip and/or Total Knee Arthroplasty Hospital-level Performance Measure(s) and Eligible Professional (e.g., Physician)-level Electronic Clinical Quality Measures | 06/13-present |
| American Association of Hip and Knee Surgeons Education committee workgroup on self-assessment examination for MOC | 03/13-present |
| American Academy of Orthopaedic Surgeons Clinical Practice Guideline on the Surgical Management of Osteoarthritis of the Knee Workgroup | 03/13-present |
| Ochsner Medical Center at Kenner Physician's Excellence Committee Chair | 01/13-present |
| LSUHCN Clinical Practice Leadership Group | 02/13-present |
| Masters Graduate Advisory Comm. for Jacob Hipps LSU Dept. of Mechanical Engineering Baton Rouge, LA | 02/13-present |
| LSU Dean's Committee on Clinical Compensation | 07/12-09/12 |
| Masters Graduate Advisory Comm. for Steven Cobb LSU Dept. of Mechanical Engineering Baton Rouge, LA | 01/12-present |
| Ochsner Health System Pursuit of Value Project New Orleans, LA | 12/11-present |
| LSUHCN Operations Committee Referrals Subcommittee Billings and Collections Subcommittee | 11/11-11/12 |
| Public Library of Science One- Reviewer | 09/11-present |

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| Acta Biomaterialia- Reviewer | 09/11-present |
| Journal of Biomedical Materials Research: Part B - Applied Biomaterials- Reviewer | 09/11-present |
| Ochsner Medical Center at Kenner Utilization Management Committee | 6/2011-present |
| Course Director- Arthritis Management for Primary Care Workshop 9/14/13 | 12 /11/10, 3/17/12, |
| LSUHSC Faculty Development Committee | 2010-present |
| LSUHSC Research Advisory Committee | 2010-present |
| Ochsner Medical Center at Kenner SCIP Committee | 2010-present |
| Ochsner Medical Center at Kenner Bylaws Committee | 2010-present |
| Ochsner Medical Center at Kenner GME/Residency Committee | 2010-present |
| Journal of Orthopaedics- Reviewer | 2009-present |
| Ochsner Medical Center at Kenner Medical Executive Committee | 2009-present |
| Ochsner Medical Center at Kenner P&T Committee | 2009-present |
| LSU Centers of Excellence Strategic Planning Committee | 2008 |
| LSU Faculty Development and Mentoring Strategic Planning Committee | 2008 |
| LSU HCN Clinical Directors Committee | 2008-2009 |

HONORS

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| Cigna Care Designation | 2013 |
| New Orleans Magazine Best Doctors | August 2013 |
| Orthopedics Today and Depuy Orthopedics Leaders in total joint replacement: generation next | March 20, 2013 |
| LA Life Best Doctors | Nov/Dec 2012 |
| Ochsner Kenner Doctors Day Award | 2010, 2011 |
| LSU Family Medicine Clinical Faculty Teaching Award | June 2009 |

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| AAOS Washington Health Policy Fellowship Finalist | January 2004 |
| AMA Foundation 2003 Leadership Award | March 2, 2003 |
| Union College Dean's List | 1995 to 1997 |
| Union College Varsity Tennis | 1995 to 1997 |

CLINICAL TRIALS

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| BIOSKIN (cropper medical) knee brace cytokine trial- PI | 2013 |
| DUSK (Durolane US Knee Trial) – PI | 2013 |

GRANTS

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| Investigation of Novel Genetic Factors Contributing to Multiple Epiphyseal Dysplasia and Osteoarthritis CO-investigator with Malwina Czarny-Ratajczak (PI), LA CaTS, \$50K, | October, 2013 |
| CDMRP PRORP idea development award- \$1M Proteomic Analysis of Trauma-Induced Heterotopic Ossification Formation Co-investigator with Jeff Gimble MD, PhD (PI) (CDMRP Log # OR120163; Grants.gov ID Number: GRANT11231859) | March, 2013 |
| Bioventus ultrasound for resident education grant- \$50K | March 2013 |
| OREF CME Grant in pain management and/or osteoarthritis- \$7K | April, 2011 |
| OREF CME Grant in pain management and/or osteoarthritis- \$15K | July 2010 |

PUBLICATIONS/PAPERS/MANUSCRIPTS

Ammar T Qureshi, MSc; William T Monroe, PhD; **Vinod Dasa, MD**; Jeffery M Gimble, MD/PhD; Daniel Hayes, Ph.D. miR-148b-Nanoparticle Conjugates for Light Mediated Osteogenesis of Human Adipose Stromal/Stem. J of Biomaterials. Accepted w minor revisions. June 27, 2013.

Ammar T Qureshi, Jace P Landry, **Vinod Dasa**, Marlene Janes and Daniel J. Hayes. Can a Novel Silver Nano Coating Reduce Infections and Maintain Cell Viability *in vitro*? J of Biomaterials Application, June 17, 2013.

Russo R MD, Duarte R MD, Beakley B MS, Mishra M MS, Thompson, H PhD, **Dasa V MD**. Post-Operative Hypertension after Total Knee Arthroplasty and Transfusion Rates. PLOS ONE, December 26, 2012.

Long WJ, **Dasa V**, Wentorf, MSS, Scuderi GR, Scott WN. Clinical Assessment of Proximal Tibial Morphology at Total Knee Arthroplasty. Reconstructive Review August 2012

Pedro Pires de Carvalho, Katie M. Hamel, Robert Duarte, Andrew G.S. King, Masudul Haque, Marilyn A. Dietrich, Xiyang Wu, Forum Shah, David Burk, Rui L. Reis, Jennifer Rood, Ping Zhang, Mandi Lopez, Jeffrey M. Gimble, **Vinod Dasa**. Cell Surface Immunophenotype and In Vitro Differentiation Potential of Infrapatellar and Subcutaneous Adipose Tissue in the Osteoarthritic Human Knee. Accepted Journal of Tissue Engineering and Regenerative Medicine, June 6, 2012.

Ammar T. Qureshi, Lekeith Terrell, W. Todd Monroe, **Vinod Dasa**, Marlene E. Janes, Jeffrey M. Gimble, and Daniel J. Hayes. Antimicrobial Biocompatible Bioscaffolds For Orthopedic Implants. Accepted Journal of Tissue Engineering and Regenerative Medicine, May, 7 2012.

Vinod Dasa MD, Jill Kramer BS, William Mihalko MD, PhD, Keith Kirkwood DDS, PhD, Sarah Gaffen PhD: Elevated MCP-1 levels in patients undergoing revision surgery for aseptic loosening of total knee arthroplasty (TKA). Clinical Orthopaedics & Related Research, 470 (7):1879-1884, 2012 June.

Ammar T. Qureshi, W. Todd Monroe, Mandi J. Lopez, Marlene E. Janes, **Vinod Dasa**, and Daniel J. Hayes Biocompatible/ bioabsorbable Silver Nanocomposite Coatings: Journal of Applied Polymer Science, 120 (5):3042–3053, 2011 June.

Vinod Dasa MD, Hani Nabi MD, PhD, Mark Anders MD, William Mihalko MD, PhD: F-18 Positron Emission Tomography of the Hip for Osteonecrosis. Clinical Orthopaedics & Related Research. 466(5):1081-6, 2008 May.

Hobden JA, **Dasa V**, Harrington BD. Treatment of Methicillin-Resistant Staphylococcus aureus Biofilms on Titanium and Polymethyl Methacrylate Bone Cement with Lysostaphin in a Synovial Fluid Simulant. In preparation.

Hobden JA, **Dasa V**, Harrington BD. Antibiotics Abrogate Staphylococcus aureus and Acinetobacter baumannii Biofilms on Titanium Alloy but not on Polymethyl Methacrylate Bone Cement. In preparation.

PRESENTATIONS and POSTERS

Brandon Hicks, Brian Harrington, Vinod Dasa, Jeff Hobden. Killing Staphylococcus epidermidis on Prosthetic Joint Materials using Antiseptic Agents. Accepted podium presentation, AAOS annual meeting, New Orleans, March 2014.

Vinod Dasa, Andrew King, Mandi Lopez. Accelerated Spinal Fusion in Nude Rats with Human Adult Adipose-Derived Multipotent Stromal Cells (ASCs) and Syngeneic Demineralized Bone Matrix (DBM). Accepted for Poster presentation, ORS annual Meeting, New Orleans, March 15, 2014.

Vinod Dasa MD: Hyaluronic Acid and Treatment of OA of the Knee, Washington State Health Technology Assessment Committee meeting public testimony, Seattle, WA, November 15, 2013.
<http://www.hta.hca.wa.gov/hyaluronic.html>

Vinod Dasa MD. Failure Modes in TKA. 2013 LSU Stryker resident Arthroplasty Course. New Orleans, LA. May 12, 2013.

Vinod Dasa MD. Non-operative Management of Knee OA. 2013 LPTA Sports Symposium, Lafayette, LA. March 16, 2013.

TK Nelson, PhD, PT, J Thompson, DPT, OCS, Cert MDT, V Dasa, MD, D Mercante, PhD, B Bates, SPT, C Broekstra, SPT. The Relationships Among Medical Insurance Payer Source and Total Knee Arthroplasty Outcomes: A 3-year Restrospective Chart Review. Poster Presentation. Annual Meeting American Physical Therapy Association. San Diego, CA. January 21-24, 2013.

Vinod Dasa MD: Viscosupplementation for Osteoarthritis of the Knee, Expert Public Testimony, Oregon Health Technology Assessment full Committee, Tualatin, OR, Oct 11, 2012.
<http://www.oregon.gov/OHA/OHPR/Pages/HERC/index.aspx>

A Rapid Processor for Methicillin-Resistant *Staphylococcus aureus* (MRSA) Identification in the Operating Room. Jake Trahan, Vinod Dasa, Michael Murphy. LSU School of Veterinary Medicine Phi Zeta Research Day. Baton Rouge, LA. September 26, 2012.

Vinod Dasa MD: Viscosupplementation for Osteoarthritis of the Knee, Expert Public Testimony, Oregon Health Technology Assessment Subommittee, Tualatin, OR, Sept 24, 2012.
<http://www.oregon.gov/OHA/OHPR/Pages/HERC/index.aspx>

LSU Internal Medicine Residency Core Conference Guest Speaker. Non Operative Management of OA. July 11, 2012.

WWL-TV (CBS) live expert TV interview re computer assisted total joint replacement. May 3, 2012.

The Relationships Among Medical Insurance Payer Source and Total Knee Arthroplasty Outcomes: A 3- Year Retrospective Chart Review. Brittany Bates, Chelsea Broekstra, Jeff Thompson, Vinod Dasa, T. Kirk Nelson. Presented LSU School of Allied Health Research Symposium. April 5, 2012.

The Influence of Obesity and Alignment on Functional Outcomes Following Total Knee Arthroplasty. Lindsey Abell, Sarah Clesi, Whitney DeVun, Austin Glahn, Jeremy Smith, Jeffery Thompson, Vinod Dasa, Donald Mercante. Presented LSU School of Allied Health Research Symposium. April 5, 2012.

Russo R MD, Duarte R MD, Beakley B MS, Mishra M MS, Thompson, H PhD, Dasa V MD. Post-Operative Hypertension after Total Knee Arthroplasty and Transfusion Rates. Presented Louisiana Orthopaedic Association Annual Meeting, New Orleans, LA. March 9, 2012.

Vinod Dasa MD: Hyaluronic Acid and Treatment of OA of the Knee, California Technology Assessment Forum (CTAF), San Francisco, CA, February 8, 2012.
<http://www.ctaf.org/content/calendar/detail/1308>

Femoral Shaft Fractures. Invited guest speaker, Inaugural Advanced Clinical Evidence Trauma Symposium, Indian Orthopedic Assoc Annual Meeting, New Delhi, India. December 7, 2011.

Periprosthetic Femur Fractures. Invited guest speaker, Inaugural Advanced Clinical Evidence Trauma Symposium, Indian Orthopedic Assoc Annual Meeting, New Delhi, India. December 7, 2011.

K. Hamel, V. Dasa, R. Duarte, C. Porretta, P. Zhang, M. Haque, M. Lopez, J.M. Gimble, P.P. De Carvalho, X. Wu, G. Yu. Cell Surface Immunophenotype and in vitro Differentiation Potential of Infrapatellar and Subcutaneous Adipose Tissue in the Osteoarthritic Human Knee. Podium presentation Annual Meeting of the International Federation for Adipose Therapeutics and Science, Miami Beach, FL, Nov 2011.

Ammar Qureshi, Lekeith Terrell, William Monroe, Vinod Dasa, Marlene Janes, Jeff Gimble, Daniel Hayes. Antimicrobial Biocompatible Bioscaffolds for Orthopedic Applications. Accepted for poster 2011 Biomedical Engineering Society Annual Meeting, Hartford ,CT, Oct 2011.

Hobden JA, Dasa V, Harrington BD. Treatment of Methicillin-Resistant Staphylococcus aureus Biofilms With Lysostaphin in a Synovial Fluid Simulant. Poster presentation 111th General Meeting, American Society for Microbiology, New Orleans, LA, May, 2011.

Dasa, Vinod; Tran, Trisha; Harrington, Brian; Hobden, Jeff. Methicillin-Resistant Staphylococcus aureus Biofilm Formation and Eradication in a Synovial Fluid Simulant. Accepted for poster presentation at Louisiana Orthopedic Association annual meeting. March 18, 2011, New Orleans, LA.

Dasa, Vinod; Hobden, Jeff; Jacob, Jean T; Lopez, Mandi; Hayes, Daniel. Bioresorbable, Nanocomposite Coatings Reduce Microbial Colonization of Orthopaedic Fixation Devices. poster presentation at Louisiana Orthopaedic Association Annual Meeting. March 18, 2011, New Orleans, LA.

Dasa, Vinod; Tran, Trisha; Harrington, Brian; Hobden, Jeff. Methicillin-Resistant Staphylococcus aureus Biofilm Formation and Eradication in a Synovial Fluid Simulant. Poster presentation ORS Annual Meeting. January 13, 2011, Long Beach, CA.

Dasa, Vinod; Hobden, Jeff; Jacob, Jean T; Lopez, Mandi; Hayes, Daniel. Bioresorbable, Nanocomposite Coatings Reduce Microbial Colonization of Orthopaedic Fixation Devices. Poster presentation ORS Annual Meeting. January 13, 2011, Long Beach, CA.

Vinod Dasa MD, Brian Harrington BS, Tricia Tran BS, Jeff Hobden PhD: Efficacy of Vancomycin Against Methicillin-Resistant Staphylococcus aureus Biofilms Formed on Titanium or Polymethyl Methacrylate. Poster presentation at American Association of Hip and Knee Surgeons Meeting. Nov 5-7, 2010, Dallas, TX.

K. Hamel, V. Dasa, R. Duarte, C. Porretta, P. Zhang, M. Haque, M. Lopez, J.M. Gimble, P.P. De Carvalho, X. Wu, G. Yu, Immunophenotypic and cytokine characterization of the Osteoarthritic Human Patellar Fat Pad: Comparison to Subcutaneous Adipose Tissue. LSU School of Veterinary Medicine Phi Zeta Research Day. Baton Rouge, LA. September 29, 2010.

Vinod Dasa MD: Non-operative treatment of Osteoarthritis. LSU Family Medicine Residency Core Teaching Conference. New Orleans, LA. September 25, 2010.

Vinod Dasa MD: Osteoarthritis and Biologics: Where Are We Today. Smith and Nephew Biologics Science Summit. Boston, MA. June 25, 2010

Harvinder Bedi MD, Christine Seaworth MD, Kenneth Krackow MD, Vinod Dasa MD: The Effect of Increased BMI on Malalignment in Primary Non-Navigated Total Knee Arthroplasty, presented at SUNY Buffalo Research Day, Buffalo, NY, June 3, 2010.

Vinod Dasa MD: Hyaluronic Acid and Treatment of OA of the Knee, Washington State Health Technology Assessment Committee meeting public testimony, Seattle, WA, May 14, 2010.

<http://www.hta.hca.wa.gov/hyaluronic.html>

Vinod Dasa MD: Moderator-Knee Panel, Louisiana Orthopaedic Association Annual Scientific Meeting, New Orleans, LA. April 10, 2010.

Vinod Dasa MD: Osteoarthritis and Biologics: Where Are We Today. Smith and Nephew Biologics Science Summit. Scottsdale, AZ. April 9, 2010.

Vinod Dasa MD, Wiliam Long MD, Giles Scuderi MD: Gender Specific Total Knee Arthroplasty. Presented by Dr Scuderi, Knee Society Specialty Day/AAOS, New Orleans, March 13, 2010.

Vinod Dasa MD, Hani Nabi MD, PhD, Mark Anders MD, William Mihalko MD, PhD: F-18 Fluoride Positron Emission Tomography of the Hip for Osteonecrosis. Presented at Louisiana Orthopaedic Association Annual Meeting, April 25, 2008.

Vinod Dasa MD, Giles Scuderi MD: The Impact of Anthropometric Measurements on TKA Design. Presented Knee Society/SIGASCOT Joint Conference, Siena, Italy, September 5-9, 2007.

Vinod Dasa, MD, Jill M. Kramer, BS, William M. Mihalko, MD, PhD, Keith L. Kirkwood, DDS, PhD and Sarah L. Gaffen, PhD: Elevated MCP-1 levels in aseptic loosening of total knee arthroplasty (TKA). Poster/podium presentation NYSSOS Annual Meeting, Manhattan, NY (Columbia Univ), October 14, 2005.

Vinod Dasa, MD, Jill M. Kramer, BS, William M. Mihalko, MD, PhD, Keith L. Kirkwood, DDS, PhD and Sarah L. Gaffen, PhD: Elevated MCP-1 levels in aseptic loosening of total knee arthroplasty (TKA). Poster Presentation at UB Scholarly Exchange Day, Buffalo, NY, April 14, 2005

Vinod Dasa, MD, Jill M. Kramer, BS, William M. Mihalko, MD, PhD, Keith L. Kirkwood, DDS, PhD and Sarah L. Gaffen, PhD: Elevated MCP-1 levels in aseptic loosening of total knee arthroplasty (TKA). Poster Presentation at the AAOS Annual Meeting, Washington DC, February 23-27, 2005

Vinod Dasa, MD, Jill M. Kramer, BS, William M. Mihalko, MD, PhD, Keith L. Kirkwood, DDS, PhD and Sarah L. Gaffen, PhD: Elevated MCP-1 levels in aseptic loosening of total knee arthroplasty (TKA). Poster Presentation at the ORS Annual Meeting, Washington DC, February 20-23, 2005.

Vinod Dasa MD, Hani Nabi MD, PhD, Mark Anders MD, William Mihalko MD, PhD: The Use of PET SCAN in atraumatic osteonecrosis of the hip. Poster Presentation at the ORS Annual Meeting,

Washington DC, February 20-23, 2005.

Vinod Dasa, MD, Jill M. Kramer, BS, William M. Mihalko, MD, PhD, Keith L. Kirkwood, DDS, PhD and Sarah L. Gaffen, PhD: Elevated MCP-1 levels in aseptic loosening of total knee arthroplasty (TKA). Poster Presentation at the AMA-RFS Research Poster Symposium, Atlanta GA, December 2004.

Vinod Dasa MD, Hani Nabi MD, PhD, Mark Anders MD, William Mihalko MD, PhD: The Use of PET SCAN in atraumatic osteonecrosis of the hip. Presented at UB Department of Nuclear Medicine Research Meeting, Buffalo, NY October 14, 2004.

Vinod Dasa, MD, Jill M. Kramer, BS, William M. Mihalko, MD, PhD, Keith L. Kirkwood, DDS, PhD Sarah L. Gaffen, PhD: Elevated MCP-1 levels in aseptic loosening of total knee arthroplasty. Presented at the 2004 SUNY @ Buffalo Orthopaedic Research Day

Divaris N, Hospadar P, Bizios R, Ledet E, Webster T, Phalen D, McManus A, Tymeson M, Dasa V: Biocompatibility of a Novel Surface-Modified Nanophase Material. Presented at the AMC Department of Orthopedics Annual Resident Research Meeting, Albany, NY. June, 2000.

Khanuja H, Ledet EH, Strominger NL, Dasa V, Carl AL: Clinical Tolerance and Response of the Spinal Cord to Mechanical Stimulus. Presented at the 26th Annual Meeting of the American Spinal Injury Association, Orlando, FL. March, 2000.

J Carl AL, Ledet EH, Strominger NL, Khanuja H, Dasa V, Gatto CA: "Clinical Tolerance and Response of the Spinal Cord to Slow Vertebral Distraction." Annual Meeting of the American Academy of Orthopedics, Hot Springs, VA. April, 2000.

Tran TA, Ross J, Sheehan C, Ledet EH, Dasa V, Sachs BL: Pathologic Features of Cervical Spine Fusion Promoted by OP-1tm Putty. Annual Meeting of the United States and Canadian Academy of Pathology, New Orleans, LA. March, 2000.

Carl AL, Ledet EH, Strominger NL, Khanuja H, Dasa V, Gatto CA: "Clinical Tolerance and Response of the Spinal Cord to Slow Vertebral Distraction." Presented at the 25th Annual Scientific Meeting of the American Spinal Injury Association, Atlanta, GA. April, 1999.

Sachs BL, Miller B, Ledet EH, Gatto CA, Boulos A, Tranmer BL, Tran TA, Disler DG, Dasa V, Krause KE: "Anterior Interbody Fusion in the Cervical Spine- A comparison of Allograft and OP-1 in a Goat Model." Presented at the 13th Annual Meeting of the North American Spine Society, San Francisco, CA. October, 1998.

Carl AL, Ledet EH, Strominger NL, Khanuja H, Dasa V, Gatto CA: "Clinical Tolerance and Response of the Spinal Cord to Slow Vertebral Distraction." 13th Annual Meeting of the North American Spine Society, San Francisco, CA. October, 1998.