

CURRICULUM VITAE

Name

Debi Prasad Mukherjee, Sc.D.

Title

Associate Professor and Coordinator of Bioengineering
Department of Orthopaedic Surgery
Louisiana State University Health Sciences Center

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Date of Birth

October 26, 1939

Family

Wife: Bandana

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Shomik

Education

1961 B.Ch.E. (Hons), Chemical Engineering, Jadavpur
University
1965 S.M., Biochemical Engineering, M.I.T.
1965 S.M., Chemical Engineering, M.I.T.
1967 Ch.E., Chemical Engineering, M.I.T.
1969 Sc.D., Chemical Engineering, M.I.T.
1980 M.B.A., Business Administration, University of
Connecticut

Employment History

1992-Present Associate Professor and Coordinator of Bioengineering
Louisiana State University Health Sciences Center, Shreveport, Louisiana

1991-1992 Development Scientist
Union Carbide, Bound Brook, New Jersey

1987 - 1990 Research Program Manager
Dow Corning Wright, Arlington, Tennessee

1974 - 1987 Technical Specialist, Biomaterials
Group Leader, Extrusion & Materials Development
Senior Research Engineer
Davis & Geck, American Cyanamid Company, Danbury, Connecticut

1969 - 1974 Senior Research Engineer
The Goodyear Tire & Rubber Company, Akron, Ohio

Academic Appointment

1989 - 1993 Adjunct Associate Professor, Biomedical Engineering
Memphis State University, Memphis, Tennessee

1992 - Present Adjunct Associate Professor, Biomedical Engineering
Louisiana Tech, Ruston, LA.

Thesis Supervised

1. M.S. Thesis (1992) by J. D. Ray Jr. "A Comparison of Fatigue Behavior for APC-2/AS4 and Commingled PEEK/AS-4 Composite", Dept. of Biomedical Engineering, Memphis State University, Memphis, TN.
2. M.S. Thesis (1992) by R. R. Shults, "A Characterization Study of Hydroxylapatite Coatings on Titanium Alloy Implant Material Before and After Fatigue", Dept. of Biomedical Engineering, Memphis State University, Memphis, TN.
3. M.S. Thesis (1993) by H. A. Mansour, "Bone/Prosthesis Relative Rigidity as an Important Parameter in the Isoelasticity of Total Hip Arthroplasty of the Human Proximal Femur", Department of Biomedical Engineering, Memphis State University, Memphis, TN.
4. M.S. Thesis (1994) by P. R. Menon, "Composites of Hydroxylapatite with Water Soluble or Biodegradable Polymers as a Synthetic Bone Graft Material", Louisiana Tech University, Ruston, LA.
5. M.S. Thesis (1996), by S. Ashroff, "Effect of Crystallinity of Hydroxyapatite Coating on Titanium Implants After Cyclic Fatigue Loading", Louisiana Tech University, Ruston, LA.
6. M.S. Thesis (1996), by N.R. Dorairaj, "Effects of Cyclic Fatigue Loading on the Stability of Hydroxyapatite Coated Titanium Dental Implants in the Presence of the Periodontal Pathogens", Louisiana Tech University, Ruston, LA.
7. M.S. Thesis (1999) by J.R.Hunter, "The measurement of Stress shielding and Relative Rigidity Mismatch within the femur prosthesis union of Total Hip Replacement" Louisiana Tech University, Ruston, LA.
8. Ph.D. Thesis (2001) by Kelly Crittenden, "Evaluation of 135- and 150-degree Sliding hip screws". Louisiana Tech University, Ruston, LA.

9. PhD Thesis (2001), by Jerome G. Saltarelli Jr. "Chitosan Paste From Crawfish Shells As A Synthetic Bone Graft Material- Preparation, Characterization, and Animal Study". Louisiana Tech University, Ruston, LA.

Honors and Awards

1. MNC Memorial Medal for securing the highest grade in the Sophomore Class of the Chemical Engineering Department, 1958.
2. E.F Berkman, RN Kruse, DP Mukherjee, KK Sadasivan, and JA Albright: A study of burst fracture in a canine model, Louisiana Orthopaedic Association, Harry Morris Award, 1993.
3. JW Sikes, BR Smith, DP Mukherjee, and KA Coward: "Comparison of Fixation of Locking Head and Conventional Screws in Fracture and Reconstruction Models." Winner of American College of Oral and Maxillofacial Surgeons Resident Research Award 18th Annual Meeting, San Diego, CA.,1997.
4. JW Sikes, BR Smith, and DP Mukherjee: "Effect of Bony Buttressing in the Atrophic Edentulous Mandible: An In Vitro Study." Winner of ITI Straumann Research Award, AAOMS 80th Annual Meeting, September 1998.
5. R Bhati, DP Mukherjee, KJ McCarthy, S Rogers, and DF Smith: "The Effect of Fibronectin Coating on the growth of Chondrocytes into a Biodegradable Scaffold." National Student Research Forum- The University of Texas Medical Branch of Galveston Texas, Department of Orthopaedic and Rehabilitation Award, 2000.

Editorial Board

Journal of Long Term Effect of Medical Implants
(Member of Editorial Advisory Board) 1998- 2003

Journal of Biomedical Materials Research (Applied Biomaterials)
(Member of Editorial Board) 1998-2002.

Conferences Organized

Akron Polymer Lecture Group

Secretary, 1972

Program Chairman, 1973

14th Southern Biomedical Engineering Conference

Chairman
April 7-9, 1995, Shreveport, LA

Technical Sessions Chaired

Biomaterials:

11th Southern Biomedical Engineering, Memphis, TN (1992), Session Chairman

Determination of Bone Properties:

12th Southern Biomedical Engineering, New Orleans, LA (1993), Session Chairman

Biomechanics and Biomedical Engineering Symposium

Orthopaedics Biomechanics I: 31st Annual Technical Meeting of the Society of Engineering Science, Texas A&M (1994) Session Co-Chairman

Orthopaedic Biomechanics

13th Southern Biomedical Engineering, Washington, D.C. (1994)- Session Chairman

Dental Materials: natural dentition polymers and composites

Sixth World Biomaterials Congress, Hawaii (2000) Session Co-moderator

Polymers in Orthopaedics Symposium (American Chemical Society) August 2002

Chaired the session

Public/Community Service Activities

NIH Proposal Evaluations and Site Visits:

1. Reviewed the contracts on the bioerodible drug-delivery systems and was invited to a site visit to SRI on May 5-7, 1987, by the Contraceptive Development Branch, Center for Population Research, National Institutes of Health and Human Development - NIH contract, Dr. Dinesh Sharma.
2. Reviewed a number of proposal on drug-delivery systems and was invited for a working group in Bethesda, Maryland, on April 27, 1990, NIH contacts, Dr. H. Khan and Dr. D. Sharma.
3. Reviewed proposals on "Development and Testing of New Spermicides for National Institute of Child Health and Development", Bethesda, MD. June 16-17, 1992, NIH contact, Dr. S. Strenfert.

4. Special Study Section - Small Business Innovation Research (SBIR) Program, Rockville, MD, July 6-8, 1994, NIH contact, Dr. N. Vydelingum.
5. Task Group Chair, Scaffold Biomaterials Section, American Society of Testing and Materials (ASTM) 1998- 2001

Institute Activities

- 1992 - Present Mentor ;Minority High School Student Research Apprentice Program
- 1992 - Present Mentor: Summer Medical Student Research Program
- 1994 - 1995 Member of the Medical Communication Committee
- 1998-at present Mentor: Science Medicine Academic Research Training Program
- 2001- Present Flag Group Leader: Module III-New curriculum of instructions to Freshman/Sophomore Medical Students
- 2003-Present Member of Institutional Review Board

Invited Lecturer:

Baylor College of Medicine, Department of Orthopaedic Surgery, -Grand Round – Plaster of Paris as a vehicle for delivery of tobramycin to treat Osteomyelitis, March, 13, 1994

Biomaterials Seminar in Atlanta: Technomic Publishing Co. Inc.

Tissue Engineering Applications of Bioabsorbable Polymers, November 16, 1999

Baylor College of Medicine, Department of Orthopaedic Surgery, - Grand Round Baylor University Medical center, Houston, TX, Meniscal Repair, May 7, 2003

Society Membership

Orthopaedic Research Society
Society for Biomaterials

Research Support and Meeting Grants

1. American Heart Association, Akron Chapter, December 10, 1973, for the project, The Relationship of Dynamic Mechanical Properties of Arteriosclerotic Tissue to the Deposit of Cholesterol and Its Ester, jointly with Dr. Thomas Pynadath of Kent State University, Kent, Ohio 44242, \$8030.00

2. School of Dentistry, LSU Medical Center, and New Orleans. "Biomechanical In Vitro testing of the stability of HA coating etc.", jointly with Dr. J. Wittenberg, Department of Surgery, Division of Oral and Maxillofacial Surgery LSUMC-S, 1993, \$7500.00.
3. ExacTech Inc., Gainesville, FL. "Experimental testing of components comprising the ExacTech 913 Knee System." 1993, \$150.00
4. Whitaker Foundation: Fourteenth Southern Biomedical Engineering Conference, 1994, \$6,000.00.
5. Smith & Nephew Richards: Fourteenth Southern Biomedical Engineering Conference, 1994, \$1,000.00.
6. Sofamor Danek Medical: Fourteenth Southern Biomedical Engineering Conference, 1994, \$300.00.
7. Dean - LSU School of Medicine-Shreveport: Fourteenth Southern Biomedical Engineering Conference, 1994, \$4,500.00.
8. Center of Excellence for Arthritis & Rheumatology: 1992-1994, \$37,070.00
9. Ortho-Care, Inc: 1994, \$550.00.
10. Chitogenics, Inc.: Nov. 1995-May 1996, Evaluation of the carboxymethyl chitosan (NOCC) and hydroxyapatite composite paste for repairing bone defects in a rat model. Feasibility of using NOCC to complex with the hyaluronic acid to reduce the drop of viscosity of synovial fluids of the rheumatoid patients. \$10,000.00.
11. Intramural Grant: January 1, 1997 - December 31, 1997. Tissue Engineering - Development of Scaffolds seeded with Different Cell types on a biodegradable matrix. \$5,000.00.
12. Wright Medical Technology: June 15, 1997 - Feb. 1999. Measurement of Creep Properties of Bone Cement. \$15,000.00
13. Louisiana Board of Regents: Travel Grant for Emerging Faculty. \$500.00.
14. Celanese Acetate: November, 15, 1998- November 15, 1999. Feasibility study of modification of cellulose acetate filters (CAF) by gamma and electron beam radiations. \$7,060.00.
15. Board of Regents Support fund, June 2000-June 2001 with matching grant from LSUHSC: Replacement of Biaxial Testing machine (Instron Model 1321) by a new digital biaxial machine (Model 8874): **\$117,732.**
16. Clinical and Industrial technology Company, July 2000- July 2001: A New Vibration Mixer for Bone Cement: **\$14,000.**

17. Department of Obstetrics & Gynecology , 2002-2003: “Biomechanical Studies on several Sutures”. **\$3420.**
18. W.L.Gore and Associates, Biodegradable Scaffold for Tissue Engineering , Jan -May 2004, **\$5000.**
19. W.L.Gore and Associates, Travel Grant to attend the World Biomaterials Congress, 2008, Amsterdam , May 27-June 2.
19. W.L.Gore and Associates, Biodegradable Scaffold for Tissue Engineering, May, 2008- at present 2008, **\$10,000**

PUBLICATIONS

Research Thesis

D. P. Mukherjee, The Viscoelastic Properties of Elastin, Sc.D.
Thesis in the Department of Chemical Engineering, M.I.T.,
January 13 (1969).

Papers and Abstracts of Presentations

1. DP Mukherjee and A.S. Hoffman: The Viscoelastic Properties of Elastin. Presented at the Third Biophysics Congress, August (1969).
2. A.S. Hoffman and DP Mukherjee: long-range Interactions of Cationic Sites in Elastin. Presented at the Conference on Engineering in Medicine and Biology, October 31(1971).
3. DP Mukherjee and C. Goldstein: The Mechanical and Optical Properties of Alternating and Random Copolymers of Acrylonitrile and Butadiene at the Same Acrylonitrile Content. *Polymer Preprints*, Vol. 14, No. 1, 36-39, (1973).
4. DP Mukherjee and C Goldstein: The Mechanical and Optical Properties of an Alternating and Emulsion NBR. *Rubber Chemistry and Technology*, 46, 1264-1273, (1973).
5. DP Mukherjee, AS Hoffman, and C Franzblau: The Physical Properties and Molecular Structure of Ligamentum Nuchae Elastin. *Biopolymer*, Vol. 13, 2447-2459, (1974).
6. DP Mukherjee and MC Morris: Rheological Properties of Synthetic Poly (isoprene) and Natural Rubber. Presented at the Annual Meeting of the Society of Rheology, Amherst, Massachusetts, October, (1974).
7. DP Mukherjee: Simultaneous Stress-Strain and Stress-Birefringence Studies on Natural Rubber, Isomerized Natural Rubber and Synthetic Poly (isoprene). *Rubber Chemistry and Technology*, Vol. 47, No. 5,1234-1240, (1974).
8. DP Mukherjee, H.M. Kagan, R.E. Jordan, and C. Franzblau: Effect of Hydrophobic Elastin Ligands on the Stress-Strain Properties of Elastin Fibers. *Connective Tissue Research*, 4, No. 3, 177-179, (1976).
9. DP Mukherjee and TI Pynadath: The Relationship of Dynamic Mechanical Properties of Arteriosclerotic Tissue of Cholesterol and Cholesterol Ester Levels of Serum and Aortic Tissues During Early Stages of Development of Atherosclerosis. *Atherosclerosis*, 26, 311-318, (1977).
10. DP Mukherjee: A Study of Flow Properties of Rubbers Using Rheometrics Mechanical Spectrometer. *Polymer Engineering and Science*, November 17, No. 1, 788-792, (1977).

11. AR Katz, D.P. Mukherjee, AL Kaganov, and S Gordon: A New Synthetic Monofilament Absorbable Suture Made from Polytrimethylene Carbonate. *Surgery, Gynecology and Obstetrics*, September, Vol. 161, 213-222, (1985).
12. DP Mukherjee and C Sandock: Effect of Gamma Irradiation on the Properties of the Glycolide/Trimethylene Carbonate Copolymer Maxon® Suture. *The Third World Biomaterials Congress*, April 21-25, 1988, Kyoto, Japan.
13. DP Mukherjee and JG Brooks, Jr.: Mechanical and Non-Destructive Evaluations of a Carbon/Carbon Composite Material. *37th Annual Meeting, Orthopedic Research Society*, March 4-7, 1991, Anaheim, California, 498.
14. DP Mukherjee and S Saha: Isoelasticity: A Design Consideration of Total Hip Replacement. *Digest of Papers 11th Southern Biomedical Engineering*, October 2-4, 1992, Memphis, TN, pp 25-27.
15. S Saha and DP Mukherjee: Use of Composite Materials for Total Hip Arthroplasty. *Digest of Papers 11th Southern Biomedical Engineering*, October 2-4, 1992, Memphis, TN, pp 93-96.
16. JD Ray and DP Mukherjee: A Comparison of Fatigue Properties of Carbon Fiber/PEEK Composites. *Digest of Papers 11th Southern Biomedical Engineering*, October 2-4, 1992, Memphis, TN, pp 142-144.
17. RR Shults, DP Mukherjee, and JD Ray: A Study of Hydroxylapatite Coated Titanium Alloy Material After Fatigue. *Digest of Papers 11th Southern Biomedical Engineering*, October 2-4, 1992, Memphis, TN, pp 159-161.
18. JJ Lorio, RN Kruse, DP Mukherjee, and JA Albright: Compressive Strength and Quantitative CT Measurements of Cancellous Bone Sample. *34th National Student Research Forum. The University of Texas Medical Branch, Galveston, Texas*, April 15-17, 1993.
19. JJ Lorio, RN Kruse, DP Mukherjee, and JA Albright: Quantitative Computer Tomography (QCT) and Mechanical Properties of Cancellous Bone. *Proceedings of the Twelfth Southern Biomedical Engineering Conference, New Orleans, LA*, April 2-4, 1993, pp 242-244.
20. RN Kruse, DP Mukherjee, and JA Albright: A Method of Quantitative Analysis of Computed Tomography (QCT) Scan of Bone Samples Using a Sun Workstation. *Proceedings of the Twelfth Southern Biomedical Engineering Conference, New Orleans, LA*, April 2-4, 1993, pp 37-39.
21. DP Mukherjee, T Sweo, and JA Albright: A Comparative Study of Femoral Neck Fracture Fixation by a Compression Screw or Knowles Pins. *First Joint ASCE/ASME*

- Summer Meeting and SES 30th Annual Meeting: Biomaterials and Biomechanics Symposium, Charlottesville, VA, June 6-9, 1993, pp 61.
22. DP Mukherjee and S. Saha: The Application of New Composite Materials for Total Joint Arthroplasty. *Journal of Long Term Effects of Medical Implants*, 3 (2): 131-141 (1993).
 23. AD McBride, DP Mukherjee, RN Kruse, and JA Albright: Anterior Screw Fixation of Type II Odontoid Fractures: A Biomechanical Study. Poster presentation 21st Cervical Spine Research Society Meeting, New York, December 1-4, 1993.
 24. EF Berkman, RN Kruse, DP Mukherjee, KK Sadasivan, and JA Albright: Relationship Between Bone Mineral Density and Burst Fracture Load: A Biomechanical Study. *Transactions of Orthopaedic Research Society*, 19(2): 530, 1994.
 25. DP Mukherjee, JM Wittenberg, SH Rogers, RN Kruse, and JA Albright: Surface Changes of Hydroxyapatite Coated Dental Implants After Cyclic Loading. *Transactions 20th Annual Meeting of the Society for Biomaterials*, 17:7, 1994.
 26. JD Ray Jr., DP Mukherjee, and JD Ray: The Fatigue Properties of Carbon Fiber/PEEK Composites: *Transactions 20th Annual Meeting of the Society for Biomaterials*, 17:161, 1994.
 27. RR Shults, DP Mukherjee, and JD Ray: A Study of Fatigue Properties of Hydroxyapatite Coated Titanium Alloy Implant Materials. *Transactions 20th Annual Meeting for the Society for Biomaterials*, 17:333, 1994.
 28. DP Mukherjee, S Rogers, S Foster, KK Sadasivan, and JA Albright: A Histological Study of Polyethylene Particles in a Rabbit Model. *Transactions of the 20th Annual Meeting of the Society for Biomaterials*, 17:392, 1994.
 29. EF Berkman, RN Kruse, DP Mukherjee, KK Sadasivan, and JA Albright: A Comparative Biomechanical Evaluation of the Thoracolumbar Burst Fracture in Human and Canine Specimens. *Orthopaedic Transactions, J Bone Joint Surg.*, 18(2): 517, 1994.
 30. AD McBride, DP Mukherjee, RN Kruse, and JA Albright: A Biomechanical Study of Anterior Screw Fixation of Type II Odontoid Fractures. Poster Presentation, North American Spine Society and Japanese Spine Research Society, Spine Across the Sea, Maui, Hawaii, April 18-21, 1994.
 31. J.E. Broyles, DP Mukherjee, and JA Albright: Application of the Photoelastic Coating Technique to Measure Strain in the Talar Neck. 35th Annual National Student Research Forum, University of Texas Medical Branch at Galveston, TX, 79, April 28-30, 1994.
 32. RF Favret, DP Mukherjee, RN Kruse, and JA Albright: Analysis of Compressive Strength and Dual X-ray Absorptiometry Evaluation of Cancellous Bone Grafts.

- Biomedical Engineering Recent Developments, ed. J. Vossoughi, Proceedings of the 13th Southern Biomedical Engineering Conference, April 16-17, 1994, pp 158-161.
33. W Johnson, C.M Hymel, DP Mukherjee, and JA Albright: Crosslink Density and Water Content in Intervertebral Discs. Biomedical Engineering Recent Developments, ed. J. Vossoughi, Proceedings of the 13th Southern Biomedical Engineering Conference, April 16-17, 1994, pp 689-692.
 34. D York, DP Mukherjee, SH Rogers, AW Pearsall, KK Sadasivan, and JA Albright: An Evaluation of Implants and Tissues Retrieved After Orthopaedic Surgery. Biomedical Engineering Recent Developments, ed. J. Vossoughi, Proceedings of the 13th Southern Biomedical Engineering Conference, April 16-17, 1994, pp 736-738.
 35. PR Menon, RL Seaman, and DP Mukherjee: Development of a Composite of Polyethylene Oxide and Hydroxyapatite as a Bone Graft Substitute. Biomedical Engineering Recent Developments, ed. J. Vossoughi, Proceedings of the 13th Southern Biomedical Engineering Conference, April 16-17, 1994, pp 772-774.
 36. JE Broyles, RN Kruse, DP Mukherjee and JA Albright: Application of the Photoelastic Coating Technique to Measure Strain in the Talar Neck. Biomedical Engineering Recent Developments, ed. J. Vossoughi, Proceedings of the 13th Southern Biomedical Engineering Conference, April 16-17, 1994, pp 856-859.
 37. DP Mukherjee, SQ Hayat, C Mocek, S Foster, V Hall, and RE Wolf: Shear Viscosity and Cytokines in Rheumatoid Synovial Fluids. Biomedical Engineering Recent Developments, ed. J. Vossoughi, Proceedings of the 13th Southern Biomedical Engineering Conference, April 16-17, 1994, pp 1081-1084.
 38. SQ Hayat, V Hall, DP Mukherjee, and RE Wolf: Cytokines in rheumatoid Arthritis: Synovial Fluid and Serum Levels. Presented at the American College of Rheumatology Regional Meeting, May 13-15, 1994.
 39. S Saha and DP Mukherjee: Use of Composite Materials for Total Joint Replacement. Proceedings of the 31st Annual Technical Meeting of the Society of Engineering Science, Biomechanics and Biomedical Engineering Symposium, Texas A&M University, October 10-12, 1994, pp 125.
 40. H Mansour, JD Ray, M Yen, and DP Mukherjee: A biomechanical Study of Stress Shielding of the Femoral Component of Orthopaedic Hip Implants. Proceedings of the 31st Annual Technical Meeting of the Society of Engineering Science, Biomechanics and Biomedical Engineering Symposium, Texas A&M University, October 10-12, 1994, pp 171.
 41. JM Wittenberg, DP Mukherjee, and BR Smith: Biomechanical Evaluation of a New Fixation Device for Mandibular Angle Fractures. Supplement to Journal of Oral and Maxillofacial Surgery, 52(B), Suppl. 2, Aug. 1994, pp 107.

42. W Johnson, C.M Hymel, DP Mukherjee, and JA Albright: Crosslink Density and Water Content in Intervertebral Discs. *Journal of Long-Term Effects of Medical Implants*, 4(1): 20, 1994
43. J.E. Broyles, RN Kruse, DP Mukherjee, and JA Albright: Application of the Photoelastic Coating Technique to Measure Strain in the Talar Neck. *Journal of Long-Term Effects of Medical Implants*, 4(1): 21-22, 1994.
44. DP Mukherjee, SQ Hayat, C Mocek, S Foster, V Hall, and RE Wolf: Shear Viscosity and Cytokines in Rheumatoid Synovial Fluid. *Journal of Long-Term Effects of Medical Implants*, 4(1): 23, 1994.
45. PR Menon, RL Seaman, and DP Mukherjee: Development of a Composite of Polyethylene Oxide and Hydroxylapatite as a Bone Graft Substitute. *Journal of Long-Term Effects of Medical Implants*, 4(1): 40, 1994.
46. AD McBride, DP Mukherjee, RN Kruse, and JA Albright: Anterior Screw Fixation of Type II Odontoid Fractures: A Biomechanical Study. *Spine*, 20(17) No1: 1855-1859, 1995.
47. G Lynn, DP Mukherjee, RN Kruse, KK Sadasivan, and JA Albright: Thoracolumbar Pedicle Screw Fixation with Zero, 1 or 2 Crosslinks. AOA Resident Conference in Pittsburgh, Mar. 1995.
48. EF Berkman, RN Kruse, DP Mukherjee, KK Sadasivan, and JA Albright: A Method to Characterize Burst Fractures. AOA Resident Conference in Pittsburgh, Mar. 1995.
49. DP Mukherjee, J.M. Wittenberg, SH Rogers, RN Kruse, and JA Albright: A Fatigue Study of Hydroxyapatite Coated Dental Implants. *Transactions of the 21st Annual Meeting of Society for Biomaterials*, 18, 283, 1995.
50. MP Langford, JA Schulman, DP Mukherjee, and JP Ganley: Effects of Vitreal Substitutes (Healon, Chitosan and Vitreon) on Epithelial Cells and Human Peripheral Blood Lymphocytes. *Proceedings of the 14th Southern Biomedical Engineering*, 286-288, 1995.
51. K Coward, B Smith, RN Kruse, and DP Mukherjee: A Biomechanical Study of Mandibular Fracture Fixation Plates in a Bovine Rib Model. *Proceedings of the 14th Southern Biomedical Engineering Meeting*, 87-89, 1995.
52. JM Wittenberg, BR Smith, RN Kruse, and DP Mukherjee: A Study of Mandibular Fracture Fixation by Different Plate Designs. *Proceedings of the 14th Southern Biomedical Engineering Meeting*, 46-48, 1995.

53. G. Lynn, DP Mukherjee, RN Kruse, KK Sadasivan, and JA Albright: A Biomechanical Study of 150 vs 135-Degree Hip Screws in Femoral Neck Fractures. Proceedings of the 14th Southern Biomedical Engineering Meeting, 49-50, 1995.
54. EF Berkman, RN Kruse, DP Mukherjee, KK Sadasivan, and JA Albright: A Method to Characterize Burst Fractures. Proceedings of the 14th Southern Biomedical Engineering Meeting, 51-52, 1995.
55. HA Mansour, JD Ray, and DP Mukherjee: Stress Shielding of Femoral Hip Components With and Without Collar. Proceedings of the 14th Southern Biomedical Engineering Meeting, 53-54, 1995.
56. SM Atchison, DP Mukherjee, RN Kruse, R Mayeux, and JA Albright: Internal Fixation of Transverse Acetabular Fractures. Proceedings of the 14th Southern Biomedical Engineering Meeting, 55-56, 1995.
57. RB Lurate, DP Mukherjee, RN Kruse, and JA Albright: Fixation of Osteochondral Fractures with Absorbable Pins. Proceedings of the 14th Southern Biomedical Engineering Meeting, 57-58, 1995.
58. PR Menon, SA Napper, and DP Mukherjee: Development of a Composite Hydroxylapatite and Chitosan as a Bone Graft Substitute. Proceedings of the 14th Southern Biomedical Engineering Meeting, 95-97, 1995.
59. DP Mukherjee, D Smith, V Hall, and RE Wolf: Relationship of Viscosity and Hyaluronic Acid Content and Molecular Weight in Synovial Fluids of Rheumatoid Arthritis Patients. American College of Rheumatology, 38, No. 6 (Supplement), R23, June 1995.
60. Eric F Berkman, Debi P Mukherjee, and James A Albright: Plaster of Paris as a Vehicle for Tobramycin. Musculoskeletal Infection Society Annual Meeting, Snow Mass, Colorado, August 10-12, 1995.
61. DP. Mukherjee, RF Favret, RN Kruse, JA. Albright, and AB Chausmer: Compressive Strength and Bone Mineral Density (DEXA) of Trabecular Bone From Vertebral Bodies. American Society for Bone and Mineral Research, 17th Annual Meeting, Baltimore, Maryland, September 10, 1995.
62. MP Langford, Joel A Schulman, Debi P Mukherjee, and James P Ganley: Effects of Healon ®, N10 Carboxyl Methyl Chitosan and Vitreon on Conjunctival Cells and Human Peripheral Blood Lymphocytes. Journal of Long Term Implants, Vol 5 (1), 1995.
63. PR Menon, SA Napper, and DP Mukherjee: Development of a Composite of Hydroxylapatite and Chitosan as a Bone Graft Substitute. Journal of Long Term Implants, Vol 5 (1), 1995.

64. JA Albright, E.F Berkman, and DP Mukherjee: Plaster of Paris as a Vehicle for Tobramycin. Biomedical Engineering Society, Annual Fall Meeting, Boston, Oct. 6-8, 1995.
65. G Lynn, DP Mukherjee, RN Kruse, KK Sadasivan, and JA Albright: Mechanical Stability of Thoracolumbar Pedicle Screw Fixation with Two, And Zero Crosslinks. Biomedical Engineering Society, Annual Fall Meeting, Boston, Oct. 6-8, 1995.
66. D Mukherjee, R Favret, R Kruse, JA Albright, and AB Chausmer: Correlation of Compressive Strength of Trabecular Bone of Vertebral bodies to Bone Mineral Density by Dual Energy X-ray Absorptiometry (DEXA). Transactions of the 2nd Combined Meeting of the Orthopaedic Research Societies of U.S.A., Japan, Canada and Europe, Nov. 5-8, 244, 1995.
67. G Lynn, DP Mukherjee, RN Kruse, KK Sadasivan, and JA Albright: Thoracolumbar Pedicle Screw Fixation with Zero, 1 or 2 Crosslinks. Orthopaedic Transactions (The Journal of Bone and Joint Surgery) 19(3), 727, 1995-96.
68. EF Berkman, RN Kruse, DP Mukherjee, KK Sadasivan, and JA Albright: A Method to Characterize Burst Fractures. Orthopaedic Transactions (Journal of Bone and Joint Surgery), 19(3), 731, 1995-96.
69. S Ashroff, SA Napper, PN Hale Jr., U Siriwardane, and DP Mukherjee: Stability of Hydroxyapatite Coating of Different Crystallinities on a Titanium Alloy Implant Material After Cyclic Fatigue. Proceedings of the Fifteenth Southern Biomedical Engineering Conference, 14-17, 1996
70. G Germany, S Rogers, and DP Mukherjee: A Histological Study of Polyethylene Wear Particles in a Rabbit Model. Proceedings of the Fifteenth Southern Biomedical Engineering Conference, 178-199, 1996.
71. S Mukherjee, SH Rogers, RH Mayeux, and DP Mukherjee: A Study of Achilles Tendon Rupture. Proceedings of the Fifteenth Southern Biomedical Engineering Conference, 381-383, 1996.
72. DP Mukherjee, SH Rogers, KK Sadasivan, D.G. Schmidt, MA Meyer, and JA Albright: Effects of Polyethylene Particles on Rabbit Knee Joints. Transactions of the Fifth World Biomaterials Congress, May 29-June 2, 902, 1996.
73. TC Mitchell, DP Mukherjee, and JA Albright: Plaster of Paris as a Vehicle for Vancomycin. Musculoskeletal Infection Society, August 1-3, 1996.
74. DP Mukherjee, E.F Berkman, TC Mitchell, and JA Albright: Treatment of Osteomyelitis by Tobramycin Impregnated Plaster of Paris, Musculoskeletal Infection Society, August 1-3, 1996.

75. S Ashroff, SA Napper, PN Hale Jr., U Siriwardane, and DP Mukherjee: Cyclic Fatigue of Hydroxyapatite Coated Titanium Alloy Implant Material - Effect of Crystallinity. *J of Long-Term Effects of Medical Implants*, 6(3&4):143-155, 1996.
76. JW Sikes, BR Smith, DP Mukherjee, and KA Coward: Comparison of Fixation Strength between Reconstruction Plates with Locking-Head and Conventional Screws. *J. Oral Maxillofacial Surg.* 54(Suppl. 3); 39-40, 1996.
77. JW Sikes, BR Smith, DP Mukherjee, and KA Coward: Comparison of the Fixation Strength between Reconstruction Plates with Conventional and Locking-Head Screws. Oral Abstract, American Association of Oral and Maxillofacial Surgeons National Meeting, Miami, FL., Sept. 18, 1996.
78. M Pearson, DP Mukherjee, F Mire, and AB Chausmer: A Method To Evaluate a Synthetic Bone Growth Material in A Rat Model Using Dual Energy X-ray Absorptiometry (DEXA). Poster presentation Intramural Society for Clinical Densitometry. January 16-19, 1997.
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