

# UCLA

## UCLA Previously Published Works

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Peer reviewed

# Vivek Dixit, Ph.D.

## *Curriculum Vitae*

### PERSONAL INFORMATION

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### EDUCATION

B.Sc. (Honors) <i>Magna cum Laude</i>	BIOLOGY	1978	Concordia University Montréal, Québec, Canada
M.Sc.	PHYSIOLOGY	1980	McGill University Montréal, Québec, Canada
Ph.D.	PHYSIOLOGY	1986	McGill University Montréal, Québec, Canada

### PROFESSIONAL EXPERIENCE

PRESENT POSITION:	Biologist – Research/Clinical Trials Coordinator United States Department of Veterans Affairs Greater Los Angeles Healthcare System (MAY. 2014 – PRESENT) Adjunct Professor II <i>David Geffen School of Medicine at UCLA, Division of Digestive Diseases.</i> (RE-APPOINTED TO THIS POSITION OCT 2015 – PRESENT)
PREVIOUS POSITIONS:	<u>University of Toronto</u> FRSQ Post-Doctoral Fellow <i>Liver Disease Program, Sunnybrook Medical Centre, University of Toronto</i> <i>Toronto, Canada. JANUARY 1986 - FEBRUARY 1988</i> <u>David Geffen School of Medicine at UCLA, Division of Digestive Diseases.</u> (JANUARY 1988 – NOVEMBER 2005)
Visit. Asst. Researcher	<i>Scientist, Blood-Brain Barrier Laboratory, UCLA School of Medicine, USA</i> FEBRUARY 1988 - MAY 1988
Visit. Asst. Researcher	<i>Scientist, Liver Biosupport and Hepatitis Research Laboratory,</i> MAY 1988 - JUNE 1989
Visit. Asst. Researcher	<i>Scientist, Liver Biosupport and Hepatitis Research Laboratory</i> JULY 1989 - JUNE 1990
Visit. Asst. Researcher	<i>Director of Research, Liver Biosupport and Hepatitis Research Laboratory</i> JULY 1990 - JUNE 1991
Adj. Asst. Researcher IV	<i>Director of Research, Liver Biosupport and Hepatitis Research Laboratory</i> JULY 1991 - JUNE 1993
Adj. Assoc. Professor I	<i>Director of Research, Liver Biosupport and Hepatitis Research Laboratory</i> <i>Co-Director, Basic Science Training Program, Division of Digestive Diseases</i> JULY 1993 - JUNE 1995
Adj. Assoc. Professor II	<i>Director of Research, Liver Biosupport and Hepatitis Research Laboratory</i>

JULY 1995 - JUNE 1997

Adj. Assoc. Professor III *Director of Research, Liver Biosupport and Hepatitis Research Laboratory*  
JULY 1997 - JUNE 2002

Adjunct Professor I *Head, Liver Support and Tissue Engineering Research Laboratory*  
*Department of Medicine, Division of Digestive Diseases.*  
*Private consultant to medical/biotechnology/pharmaceutical industry*  
*and National Science Foundation, SBIR/STTR Review Panelist.*  
JULY 2002 – NOVEMBER 2005 (*retired from UCLA effective Nov 30, 2005*)

Consultant, Sumvaad Corporation, LLC.

CEO, Private consultant to medical/biotechnology/pharmaceutical industry,  
National Science Foundation - SBIR/STTR program, & private venture  
capital. (MARCH 2007 – MAY 2014)

Western University of Health Sciences, Pomona, CA

Part-time Adj. Faculty, Dept. of Physical Therapy (AUG. 2013 – DEC. 2013)

United States Department of Veterans Affairs

Research Scientist – Clinical Trials Coordinator (WOC Appointment)  
Greater Los Angeles Healthcare System (MAY. 2014 – MAY 2015)

## **PROFESSIONAL ACTIVITIES**

ADMINISTRATIVE RESPONSIBILITIES: Research Director, Liver Support and Tissue Engineering  
Research Lab, Div of Digestive Diseases, UCLA (1988-1993)  
Head, Liver Support and Tissue Engineering Research Laboratory  
Division of Digestive Diseases, UCLA (1993-2005)  
Webmaster, UCLA Division of Digestive Diseases (2002 - 2004)  
Computer skills: Expertise with both Windows and Mac platforms,  
working knowledge of Linux platforms, highly proficient with the  
complete MS Office and similar office productivity software suite,  
database management, CAD and illustration software, statistical  
and mathematics software, website design & management, desktop  
publishing & poster design, and cloud computing.

TEACHING RESPONSIBILITIES: UCLA School of Medicine – teaching & mentoring undergraduate  
and graduate students in physiology/biology, writing scientific  
papers and research grants, scientific research methodologies,  
including light & electron microscopy, tissue culture, and  
development of surgical and drug-induced animal models (small  
and large) for liver and pancreatic diseases in biomedical research  
(since 1986), develop animal models of liver diseases, develop  
novel biomaterials for liver tissue engineering and cell  
transplantation, hepatitis studies and diagnostic methodologies.  
UCLA Cybernetics Program – undergraduate course teaching and

mentoring responsibilities within this joint program between the UCLA School of Medicine and School of Engineering & Computer Sciences (1993-2005)

- RESEARCH ACTIVITIES: U.S. Department of Veterans Affairs, VAGLAHS (2013 – present)-  
CSP577 Study - to investigate the role of FIT testing vs Screening Colonoscopy to identify patients at risk for colorectal cancer.  
VA0036 Study (PI: Pisegna JR)-to investigate the role of a high protein diet on obesity, weight loss and NAFLD.
- NATIONAL SCIENCE FOUNDATION: Member, SBIR/STTR Grant Review Panel (2003 - present)  
Member, Site Visit Team to evaluate GeorgiaTech/Emory Center for Engineering Living Tissues (Year 6 & 7 Renewal; 2004 & 2005)
- SCIENTIFIC PROGRAM COMMITTEE: XI Congress of the International Society for Artificial Cells,  
Blood Substitutes and Immobilization Biotechnology,  
Boston, MA. July 1994  
42nd annual meeting, Am. Soc. for Artif. Intern Organs (1996)  
Co-chairman: Bioartificial Liver Support Devices  
3rd Internet World Congress on Biomedical Sciences,  
Co-chairman: Tissue Engineering & Bioartificial Organs  
Symp. on Tissue Engineering & Bioartificial Organs (1996)  
43rd annual meeting, Am. Soc. for Artif. Intern Organs (1997)  
Chairman, Clinical & Experimental Developments in  
Bioartificial Livers  
3rd World Congress of Biomechanics (1998)  
Co-chairman, Symposium on Artificial Organs  
6th Internet World Congress for Biomedical Sciences  
INABIS 2000, Co-chairman: Tissue Engineering (2000)
- EDITORIAL BOARDS: Cell Transplantation  
Journal of Artificial Cells, Blood Substitutes and  
Immobilization Biotechnology  
International Journal for Artificial Organs
- EDITORIAL SERVICES (REVIEWER): Artificial Organs  
ASAIO Journal  
Cell Transplantation  
Biotechnology & Bioengineering  
Digestive Disease and Science  
Gastroenterology  
Government of Hong Kong, University Grants Commission  
Hepatology  
International Journal for Artificial Organs  
Journal of Artificial Cells, Blood Substitutes and Immobilization  
Biotechnology

Journal of Hepatology  
Journal of Infectious Diseases  
National Science Foundation

SCIENTIFIC SOCIETIES:

American Association for the Study of Liver Diseases (AASLD)  
American Gastroenterological Association (AGA)  
American Society for Artificial Internal Organs (ASAIIO)  
Cell Transplant Society  
AGA - Gastroenterology Research Group  
International Association for the Study of the Liver (IASL)  
International Society for Artificial Cells, Blood Substitutes and  
Immobilization Biotechnology  
International Society for Artificial Organs (ISAO)

VISITING PROFESSORSHIPS:

University of Toronto, Toronto, Canada, October 1985  
McGill University, Montréal, Canada, October 1988  
Thomas Jefferson University, Philadelphia, PA. April 1990  
National Cancer Institute, NIH, Bethesda, MD. April 1990  
University of Washington, Seattle, WA. February 1992  
Hacettepe University, Ankara, Turkey. August 1992  
National Taiwan University, Taipei, Taiwan. 1995.  
Kyoto University, Kyoto, Japan. 1996.  
Ministry of Int'l. Trade and Industry, Govt. of Japan,  
Tsukuba City, Japan. 1997  
Delhi University, G.B. Pant Hospital, New Delhi, India. 1998  
Ankara University, Science Faculty, Ankara, Turkey, 2002.

CONSULTANT/COLLABORATION:

Hacettepe University, Chemical Engineering Department,  
Ankara, Turkey. (with Dr. Erhan Piskin) 1992 to present  
Chiron Corp., Emeryville, CA, USA. (with Dr. A. Polito)  
1993 to 2001.  
Clonetics Corp., San Diego, CA, USA 1994  
HemoCleanse Inc., West Lafayette, IN, USA 1994  
Industrial Technology Research Institute, Chutung, Taiwan.  
(with Dr. Dean-Mo Liu) 1995 to present  
Ankara University, Chemical Engineering Department,  
Ankara, Turkey. (with Dr. Y. Murat Elçin) 1995 to present  
Government of Hong Kong, Univ, Grants Commission, 1996  
HepaHope Inc., Los Angeles, California. (2002-2004)  
National Science Foundation (2003-present)

TEACHING:

UCLA Department of Medicine and Div. of Digestive Diseases  
UCLA Cybernetics Program, Department of Computer Science &  
Bioengineering.  
Western University of Health Sciences, Pomona, CA  
Department of Physical Therapy

**CLINICAL TRIALS – May 2015-Sept. 2018; Jan 2019 - present**

**I WORKED ON THE FOLLOWING CLINICAL TRIALS & OTHER VA STUDIES**

*(Dr. Joseph Pisegna's and Dr. Felix Leung's Research Group, US Dept. of Veterans Affairs)*

1. **Does the Addition of a Cap Improve the Adenoma Detection Rate During Water Exchange Colonoscopy?** – *Clinical Study Coordinator 2019 to present.*  
PI: Dr. Felix Leung
2. **Prospective RCT Of Water Exchange (WE) vs. WE Plus Cap-Assisted Colonoscopy.** – *Clinical Study Coordinator 2019 to present.*  
PI: Dr. Felix Leung
3. **TRPV Receptor Antagonist Modulates Fat Distribution: A Hypothesis –Testing Study in Mice.** – *Research Study Coordinator 2019 to present.*  
PI: Dr. Felix Leung
4. **GI Hormones in Obesity.** – *Study Coordinator since 2015.*  
PI: Dr. Joseph Pisegna
5. **VA Chromogranin A Study.** – *Study Coordinator since 2015.*  
PI: Dr. Joseph Pisegna
6. **Quality of Screening Colonoscopy at a VA Academic Teaching Hospital Compared to a Community Outpatient Facility.** - *Study Coordinator since 2015.*  
PI: Dr. Joseph Pisegna
7. **Effects of Endoscopic Trans-oral Outlet Reduction (TORe) on body weight, oral glucose tolerance and satiety in patients with Roux-en-Y gastric bypass failure and weight regain.**  
*Study Coordinator since 2015.*  
PI: Dr. Joseph Pisegna
8. **CSP #577 Study, Colonoscopy vs. Fecal Immunochemical Test in Reducing Mortality from Colorectal Cancer (CONFIRM).** - *Study Coordinator since 2015.*  
LSI: Dr. Joseph Pisegna
9. **A Phase 3 Prospective, Randomized, Double-Blind, Multi-Center, Study of the Efficacy and Safety of Lanreotide Autogel/Depot 120mg Plus BSC vs Placebo Plus BSC for Tumor Control in Subjects with Well-Differentiated, Metastatic and/or Unresectable Typical or Atypical Lung Neuroendocrine Tumors (SPINET).** - *Study Coordinator since 2016.*  
PI: Dr. Joseph Pisegna
10. **Gene Interactions Relating to Metabolic Syndrome, Obesity and NAFLD in the Million Veteran Program (MVP).** - *Study Coordinator since 2016.*  
PI: Drs. Joseph Pisegna and Jihane Benhammou
11. **COORS: Cirrhosis Outpatient Optimization, Readmissions and Safety TeleHealth Study.**  
*Study Coordinator since 2016. (Study is now completed/closed)*  
PI: Drs. Joseph Pisegna and Christine Yu.
12. **Microbiome, Microbial Markers, & Liver Disease (M<sub>3</sub>LD).** - *Study Coordinator since 2017*  
PI: Drs. Joseph Pisegna and Jonathan Jacobs.

13. **Identification and characterization of risk factors for the development of non-alcoholic fatty liver disease (NAFLD) phenotypes utilizing administrative databases.** - *Study Coordinator since 2017.* PI: Drs. Joseph Pisegna and Jihane Benhammou
14. **Descriptive Study on Veterans with Inflammatory Bowel Disease at the Greater Los Angeles Veterans Affairs.** *Study Coordinator since 2017*  
PI: Drs. Joseph Pisegna and Jonathan Jacobs.
15. **VA Non-Alcoholic Fatty Liver Disease (NAFLD) Study Group** - *Study Coordinator since 2017.*  
PI: Dr. Joseph Pisegna

### **SPECIAL AWARDS AND HONORS**

1. *Magna cum Laude*, B.Sc. Honors, Concordia University, Montréal, Québec, Canada. 1978
2. Faculty of Medicine Award, McGill University, Montréal, Québec, Canada. 1981
3. FCAC - Bourse d'Excellence, Ministry of Education, Govt. of Québec, Canada. 1981 – 1983
4. Faculty of Medicine Award, McGill University, Montréal, Québec, Canada. 1985
5. FRSQ Post-Doctoral Fellowship, Fonds de la Recherche en Santé du Québec  
Ministry of Education, Government of Québec, Canada. 1986 – 1987
6. Member, Liver Disease Program Steering Committee, Sunnybrook Medical Centre  
University of Toronto, Toronto, Ontario, Canada. 1986 – 1987
7. First Sunnybrook Fund Fellowship Award for Medical Research  
Sunnybrook Medical Centre, University of Toronto, Toronto, Ontario, Canada. 1987

### **RESEARCH GRANTS AND FELLOWSHIPS RECEIVED (PEER REVIEWED)**

1. FELLOWSHIP/RESEARCH AWARD: Faculty of Medicine Internal Award  
SOURCE: McGill University, Faculty of Medicine, Montréal, Québec, Canada  
DURATION: 1 Year. 1981
2. FELLOWSHIP: FCAC - Bourse d'Excellence  
SOURCE: Ministry of Education, Government of Québec, Canada.  
DURATION: 3 Years. 1981 – 1983
3. FELLOWSHIP/RESEARCH AWARD: Faculty of Medicine Internal Award  
SOURCE: McGill University, Faculty of Medicine, Montréal, Québec, Canada  
DURATION: 1 Year. 1985
4. FELLOWSHIP: FRSQ Post-Doctoral Fellowship  
SOURCE: Fonds de la Recherche en Santé du Québec, Government of Québec, Canada.  
DURATION: 2 Years. 1986 – 1987
5. FELLOWSHIP: First Sunnybrook Fund Fellowship Award for Medical Research  
SOURCE: Sunnybrook Medical Centre, University of Toronto, Toronto, Ontario, Canada.  
DURATION: 1 Year. 1987
6. GRANT: Towards a Liver Biosupport System  
CO-PRINCIPAL INVESTIGATORS: V. Dixit, Ph.D., M.M. Fisher, M.D., Ph.D.

SOURCE: Physicians' Services Incorporated Foundation, Toronto, Ontario, Canada.  
DURATION: 2 Years. 1987 – 1989

7. GRANT: Development of a Liver Biosupport System  
PRINCIPAL INVESTIGATOR: V. Dixit, Ph.D.  
SOURCE: United Liver Association, Los Angeles, California, USA.  
DURATION: 1 Year. 1988
8. GRANT: Hepatocyte Transplantation in Liver Disease  
PRINCIPAL INVESTIGATOR: V. Dixit, Ph.D.  
SOURCE: United Liver Association, Los Angeles, California, USA.  
DURATION: 1 Year. 1990
9. GRANT: Use of Microcarrier-Attached Hepatocytes in Liver Disease  
CO-PRINCIPAL INVESTIGATORS: E. Piskin, Ph.D., V. Dixit, Ph.D.  
SOURCE: United Liver Association, Los Angeles, California, USA.  
DURATION: 1 Year. 1991
10. GRANT: Development of a Hepatocyte Bioreactor as a Hybrid Bioartificial Liver Support Device  
PRINCIPAL INVESTIGATOR: V. Dixit, Ph.D.  
SOURCE: United Liver Association, Los Angeles, California, USA.  
DURATION: 1 Year. 1992
11. GRANT: Hepatocyte Bioreactor for Artificial Liver Support  
PRINCIPAL INVESTIGATORS: P. Martin, M.D., V. Dixit, Ph.D.  
SOURCE: UCLA Academic Senate, Committee on Research, Los Angeles, California, USA.  
DURATION: 1 Year. 1994
12. GRANT: Evaluation of a New Hepatocyte Bioreactor Using Microencapsulated Porcine Hepatocytes  
PRINCIPAL INVESTIGATOR: S. Biggins, V. Dixit, Ph.D.  
SOURCE: United Liver Association, Los Angeles, California, USA.  
DURATION: 1 Year. 1995
13. GRANT: Tissue Engineering Studies for the Development of Liver Organoids  
PRINCIPAL INVESTIGATOR: D. Friedlich, V. Dixit, Ph.D.  
SOURCE: United Liver Association, Los Angeles, California, USA.  
DURATION: 1 Year. 1995
14. GRANT: Hepatocyte Bioreactor for Liver Support  
PRINCIPAL INVESTIGATOR: V. Dixit, Ph.D.  
SOURCE: Oppenheimer Foundation, Los Angeles, CA.  
DURATION: 1 Year. 1995-1996
15. GRANT: Creation of Liver-Tissue Organoids  
PRINCIPAL INVESTIGATORS: G. Gitnick, M.D., V. Dixit, Ph.D.  
SOURCE: UCLA Academic Senate, Committee on Research, Los Angeles, California, USA.  
DURATION: 1 Year. 1996-1997
16. GRANT: Hepatocyte Bioreactor for Liver Support  
PRINCIPAL INVESTIGATORS: G. Gitnick, M.D., V. Dixit, Ph.D.  
SOURCE: UCLA Academic Senate, Committee on Research, Los Angeles, California, USA.



DURATION: 1 Year. 1997-1998

17. GRANT: Liver Tissue Engineering  
PRINCIPAL INVESTIGATOR: V. Dixit, Ph.D.  
SOURCE: Oppenheimer Foundation, Los Angeles, CA.  
DURATION: 1 Year. 2001-2002
18. GRANT: Evaluation of the HepaHope Bioartificial Liver  
PRINCIPAL INVESTIGATOR: V. Dixit, Ph.D.  
SOURCE: HepaHope, Inc., Los Angeles, CA.  
DURATION: 2 Years. 2002-2004

## INVITED LECTURES

1. *Experimental Studies on Acute Hepatic Failure.*  
University of Toronto, Sunnybrook Medical Centre, Toronto, Ontario, Canada. 1984
2. *Recent Developments in Artificial Liver Support.*  
McGill University, Department of Physiology, Montréal, Québec, Canada. 1988
3. *A Morphologic and Functional Evaluation of Cryopreserved Encapsulated Hepatocytes After Transplantation in Gunn Rats.*  
UCLA, Department of Medicine, Los Angeles, CA. 1989
4. *Artificial Liver Support Systems: Past Experience and Current Concepts.*  
Thomas Jefferson University, Department of Medicine, Philadelphia, PA. 1990
5. *Hepatocyte Transplantation: Current Concepts.*  
National Institutes of Health, National Cancer Institute, Bethesda, MD. 1990
6. *Future of Liver Cell Transplantation in the Management of Liver Disease.*  
United Liver Association, Los Angeles, CA. 1990
7. *Isolated Hepatocytes and Their Potential Use in the Development of an Artificial Liver.*  
National Disease Research Interchange, Washington, DC. 1990
8. *A Liver Machine: Promise for the Future.*  
United Liver Association, Los Angeles, CA. 1991
9. *Liver Cell Transplantation.*  
American Association for the Study of Liver Diseases, Research Workshop, Chicago, IL. 1991
10. *Encapsulation and Culturing of Hepatocytes in Alginate Microcapsules*  
University of Washington, Seattle, WA. 1992
11. *Transplantation of Microencapsulated Cells for Organ Replacement Therapy.*  
Eurobiomat Workshop on Biodegradation and Biodegradable Polymeric Biomaterials, Antalya, Turkey. 1992
12. *Artificial Liver Support: Overview and Current Concepts.*  
Grand Rounds, UCLA Department of Medicine, Los Angeles, CA. 1992
13. *The Rationale of Artificial Liver Support in the Treatment of Fulminant Hepatic Failure.*  
UCLA, Department of Medicine, Hepatology Rounds, Los Angeles, CA. 1993

14. *Development of a Bioartificial Liver Using Isolated Hepatocytes.*  
IXth World Congress of the International Society of Artificial Organs, Amsterdam, The Netherlands. 1993
15. *Artificial Cells Containing Hepatocytes as a Bioartificial Liver.*  
IXth World Congress of the International Society of Artificial Organs, Amsterdam, The Netherlands. 1993
16. *Transplantation of Isolated Hepatocytes and Their Role in Extrahepatic Life Support Systems.*  
Current Topics in Gastroenterology 1993 Symposium, Miami, FL. 1993
17. *Artificial-Cell-Immobilized Hepatocytes As a Bioartificial Liver.*  
XI Congress of the International Society for Artificial Cells and Immobilization Biotechnology, Boston, MA. July 1994
18. *Microencapsulated Hepatocytes.*  
KEYSTONE SYMPOSIUM on Science and Engineering of Immunoprotected Cell Transplants, Frisco, CO. April 1995
19. *Tissue Engineering: A New Dimension.*  
United Liver Association, Los Angeles, CA. 1995.
20. *Hepatocyte Transplantation, Tissue Engineering & Bioartificial Liver -Overview & Recent Developments.*  
National Taiwan University, Taipei, Taiwan. 1995.
21. *Developmental Studies on Bioartificial Liver Support Systems and Liver Organoids Using Fetal Porcine Hepatocytes*  
Xth World Congress of the International Society for Artificial Organs, Taipei, Taiwan. 1995.
22. *Microencapsulated Hepatocytes as a Component of a Bioartificial Liver.*  
23rd International Symposium on Controlled Release of Bioactive Materials, Symposium on Cell Delivery. Controlled Release Society annual meeting, Kyoto, Japan. 1996.
23. *The Engineering of Bioartificial Livers.*  
Kyoto University, 2nd. Department of Surgery, Kyoto, Japan. 1996.
24. *Bioartificial Liver Support Systems.*  
5th National Institute for Advanced Interdisciplinary Research, Ministry of International Trade and Industry, Government of Japan, Tsukuba Science City, Japan. 1997.
25. *Applications of Liver Support Systems.*  
Symposium on the Kidney and Liver in Multi-Organ Failure, Krems (Vienna), Austria. 1997
26. *Use of Embryonal or Fetal Hepatocyte Cultures in Hybrid Liver Support.*  
1997 European Society for Artificial Organs Congress, Budapest, Hungary. 1997
27. *Bioartificial Livers: State-of-the-Art.*  
Current Topics in Gastroenterology, Kona, Hawaii. 1997.
28. *The Bioartificial Liver: Where We Are And Where We're Headed*  
Delhi University, G.B. Pant Hospital Medical Center, New Delhi, India. 1998.
29. *Bioartificial Livers: Current Status and Expectations*  
American Society for Artificial Internal Organs, San Diego, CA, USA. 1999.

30. *Liver Tissue Engineering: Successes and Limitations*  
BioMed 2002 Conference, Antalya, Turkey. 2002.
31. *Bioartificial Livers: Strategies to Treat Liver Diseases*  
Ankara University, Ankara, Turkey. 2002.
32. *In Situ Liver Tissue Engineering in Rodents*  
Hilton Head Tissue Engineering Workshop, Hilton Head, SC. 2002.  
Sponsored by Georgia Tech/Emory Center for the Engineering of Living Tissues.
33. *Current Strategies in the Research and Treatment of Liver Diseases*  
Amrita Institute of Medical Sciences (AIMS), Kochi, Kerala, India. 2007

## PUBLICATIONS/BIBLIOGRAPHY

### RESEARCH PAPERS

#### A. RESEARCH PAPERS: PEER REVIEWED

1. **Dixit V**, Chang TMS. *Soluble liver extract as supplement to detoxification by hemoperfusion in liver failure*. Int J Artif Organs 4(6): 291-294, 1981.
2. **Dixit V**, Chang TMS. *Effects of prostaglandin E<sub>2</sub> on the survival time of fulminant hepatic failure rats*. Int J Artif Organs 5: 388, 1982.
3. **Dixit V**, Chang TMS. *In-vitro and clinical studies on the effects of coated charcoal hemoperfusion on cortisol, thyroxin, insulin, and thyroid-stimulating hormone*. Life Support Systems 2:238-244, 1984.
4. **Dixit V**, Chang TMS. *Preliminary report on the effects of prostaglandin E<sub>2</sub> on brain edema in fulminant hepatic failure rats*. Int J Artif Organs 8(1): 55-56, 1985.
5. **Dixit V**, Chang TMS. *Effects of prostaglandin E<sub>2</sub> on brain edema and liver histopathology in galactosamine-induced fulminant hepatic failure rats*. Biomat Artif Cells Artif Organs 15(3):559-573, 1987.
6. **Dixit V**, Gordon VP, Pappas SC, Fisher MM. *Increased survival in galactosamine induced fulminant hepatic failure in rats following intraperitoneal transplantation of isolated encapsulated hepatocytes*. In Hybrid Artificial Organs, C. Baquey, B. Dupuy eds., Colloque INSERM, Vol. 177, pp. 257-264, 1989.
7. **Dixit V**, Chang TMS. *Brain edema and blood-brain barrier in galactosamine-induced fulminant hepatic failure rats: an animal model for evaluation of liver support systems*. ASAIO Trans 36 (1) 21-27, 1990.
8. **Dixit V**, Darvasi R, Arthur M, Brezina M, Lewin KJ, Gitnick GL. *Restoration of liver function in Gunn rats without immunosuppression using transplanted microencapsulated hepatocytes*. Hepatology 12(6):1342-1349, 1990.
9. **Dixit V**, Arthur M, Reinhardt R, Gitnick G. *Improved function of microencapsulated hepatocytes in a hybrid bioartificial liver support system*. Artif Organs 16(4): 336-341, 1992.
10. **Dixit V**, Arthur M, Gitnick G. *Repeated transplantation of microencapsulated hepatocytes for sustained correction of hyperbilirubinemia in Gunn rats*. Cell Transplantation 1:275-279, 1992.
11. **Dixit V**, Piskin E, Arthur M, Denizli A, Tuncel S, Denkbaz E, Gitnick G. *Hepatocyte immobilization on PHEMA microcarriers and its biologically modified forms*. Cell Transplantation 1:391-399, 1992.
12. **Dixit V**, Arthur M, Gitnick G. *A morphological and functional evaluation of transplanted isolated encapsulated hepatocytes following long-term transplantation in Gunn rats*. Biomat Artif Cells Immob Biotech 21:119-133, 1993.
13. **Dixit V**, Darvasi R, Arthur M, Lewin KJ, Gitnick G. *Cryopreserved microencapsulated hepatocytes: transplantation studies in Gunn rats*. Transplantation 55:616-622, 1993.

14. Ko C, **Dixit V**, Shaw W, Gitnick G. *In vitro slow release profile of endothelial cell growth factor immobilized within calcium alginate microbeads*. *Artif Cells Blood Subst Immob Biotech* 23(2):143-151, 1995.
15. Denizli A, Piskin E, **Dixit V**, Arthur M, Gitnick G. *Collagen and fibronectin immobilization on PHEMA microcarriers for hepatocyte attachment*. *Int J Artif Organs* 18(2):105-110, 1995.
16. **Dixit V**, Quan S, Martin P, Larson D, Brezina M, DiNello R, Sra K, Chen D, Lau JYN, Tagger A, Davis G, Polito A, Gitnick G. *Evaluation of a novel serotyping system for Hepatitis C virus: Strong correlation with standard genotyping methodologies*. *J Clin Microbiol* 33(11):2978-2983, 1995.
17. Elçin YM, **Dixit V**, Gitnick G. *Controlled release of endothelial cell growth factor from chitosan-albumin microspheres for localized angiogenesis: In vitro and in vivo studies* *Artif Cells Blood Subst Immob Biotech* 24(3):257-271, 1996.
18. Ko C, **Dixit V**, Shaw W, Gitnick G. *Extensive in vivo angiogenesis from the controlled release of endothelial cell growth factor: Implication for cell transplantation and wound healing*. *J Controlled Rel* 1997.
19. Martin P, Fabrizi, F, **Dixit V**, Quan S, Brezina M, Kaufman E, Sra K, DiNello R, Polito A, Gitnick G. *Use of automated RIBA hepatitis C virus (HCV) strip immunoblot assay for reproducible HCV diagnosis*. *J Clin Microbiol* 36(2):387-390, 1998.
20. Elçin YM, **Dixit V**, Gitnick G. *Hepatocyte attachment on biodegradable modified chitosan membranes : In vitro evaluation for the development of liver organoids*. *Artif Organs* 22(10): 837-846, 1998.
21. Fabrizi, F, Martin P, **Dixit V**, Brezina M, Cole MJ, Gerosa S, Mousa M, Gitnick G. *Acquisition of hepatitis C virus in hemodialysis patients: a prospective study by branched DNA (bDNA) signal amplification assay*. *Am J Kid Dis* 31(4): 31(4): 647-54, 1998.
22. Martin P, Fabrizi, F, **Dixit V**, DiNello R, Quan S, Gitnick G. *Quantitative Assessment of HCV Load in Chronic Hemodialysis Patients: A Cross-Sectional Survey*. *Nephron* 80(4): 428-433, 1998.
23. Fabrizi F, Martin P, **Dixit V**, Brezina M, Russell J, Conrad A, Schmid P, Gerosa S, Gitnick G. *Detection of de novo hepatitis C virus infection by polymerase chain reaction in hemodialysis patients*. *Am.J.Nephrol.* 19:383-388, 1999.
24. Elcin YM, **Dixit V**, Lewin K, Gitnick G. *Xenotransplantation of fetal porcine hepatocytes in rats using a tissue engineering approach*. *Artif. Organs* 23:146-152, 1999.
25. Fabrizi F, Martin P, **Dixit V**, Quan S, Brezina M, Abbey H, Gerosa S, Kaufman E, DiNello R, Polito A, Gitnick G. *Epidemiology of Helicobacter pylori in chronic haemodialysis patients using the new RIBA H. pylori SIA*. *Nephrol Dial Transplant* 14(8):1929-33, 1999.
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## **B. RESEARCH PAPERS: PEER REVIEWED – IN PREPARATION**

1. Leung F, **Dixit V**, et al. *Does the Addition of a Cap Improve the Adenoma Detection Rate during Water Exchange Colonoscopy?*(data collected;manuscript in preparation).
2. Leung F, **Dixit V**, et al.. *Prospective RCT Of Water Exchange (WE) vs. WE Plus Cap-Assisted Colonoscopy.* ?(data collected; manuscript in preparation).

## **C. RESEARCH PAPERS: PEER REVIEWED – SUBMITTED – NONE**

## **RESEARCH PAPERS (NON PEER REVIEWED)**

### **D. RESEARCH PAPERS: NON-PEER REVIEWED - NONE**

### **E. RESEARCH PAPERS: NON-PEER REVIEWED – IN PRESS- NONE**

### **F. RESEARCH PAPERS: NON-PEER REVIEWED – SUBMITTED- NONE**

## **REVIEWS (PEER REVIEWED)**

1. **Dixit V**. *Development of a bioartificial liver using isolated hepatocytes*. Artif Organs 18:371-384, 1994.
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5. **Dixit V**. Artificial Cells in Liver Disease. In: Artificial Cells, Cell Engineering, and Therapy, Satya Prakash (ed). Woodhead Publishing Limited. 2007.

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#### SCIENTIFIC PRESENTATIONS (PEER REVIEWED)

1. **Dixit V**, Sherman IA, Fisher MM. *Vesicular transport of bile acids by isolated rat hepatocytes.* 37th annual meeting of the American Association for the Study of Liver Diseases, November 2-5, 1986, Chicago, IL, USA.
2. **Dixit V**, Trimble CE, Fisher MM. *A liver biosupport system based on isolated encapsulated hepatocytes.* VIth World Congress of the International Society for Artificial Organs and the XIVth Congress of the European Society for Artificial Organs, September 6-9, 1987, Munich, West Germany.
3. **Dixit V**, Gordon VP, Pappas SC, Fisher MM. *Increased survival in GalN-FHF rats following intraperitoneal transplantation of isolated encapsulated hepatocytes.* Biomat 88 Conference on Hybrid Artificial Organs, October 18-19, 1988, Bordeaux, France.
4. **Dixit V**, Stalnikowicz R, Arthur M, Gitnick G. *A new technique for cryopreservation of hepatocytes.* 90th annual meeting of the American Gastroenterological Association, May 13-19, 1989, Washington, DC., USA.
5. **Dixit V**, Darvasi R, Arthur M, Lewin K, Gitnick G. *A functional and morphological evaluation of a liver biosupport system based on isolated encapsulated hepatocytes.* VIIth World Congress of the International Society for Artificial Organs, October 1-4, 1989, Sapporo, Japan.

6. **Dixit V**, Stalnikowicz R, Arthur M, Brezina M, Gitnick G. *Transplantation of isolated encapsulated hepatocytes corrects hyperbilirubinemia in Gunn rats*. Western Society for Clinical Investigation annual meeting, February 6-9, 1990, Carmel, CA, USA.
7. **Dixit V**, Darvasi R, Arthur M, Lewin K, Gitnick G. *Cryopreserved isolated encapsulated hepatocytes: a morphologic and functional evaluation*. Western Society for Clinical Investigation annual meeting, February 6-9, 1990, Carmel, CA, USA.
8. **Dixit V**, Arthur M, Lewin K, Gitnick G. *Microencapsulation protects hepatocytes from rejection: preliminary long-term studies in Gunn rats*. 91st annual meeting of the American Gastroenterological Association, May 13-16, 1990, San Antonio, TX, USA.
9. **Dixit V**, Arthur M, Gitnick G. *Multiple transplantations of microencapsulated hepatocytes for sustained correction of hyperbilirubinemia in Gunn rats*. 41st annual meeting of the American Association for the Study of the Liver, November 5-6, 1990, Chicago, IL, USA.
10. **Dixit V**, Arthur M, Reinhardt R, Gitnick G. *Synthetic liver basement membrane improves function of transplanted microencapsulated hepatocytes in Gunn rats*. Western Society for Clinical Investigation annual meeting, February 6-9, 1991, Carmel, CA, USA.
11. **Dixit V**, Arthur M, Reinhardt R, Gitnick G. *Liver cell transplantation: Improved biological response of transplanted microencapsulated hepatocytes with a liver basement membrane-like extract*. 91st annual meeting of the American Gastroenterological Association, May 19-22, 1991, New Orleans, LA, USA.
12. **Dixit V**, Arthur M, Reinhardt R, Gitnick G. *Improved function of microencapsulated hepatocytes in a hybrid bioartificial liver support system*. VIIIth World Congress of the International Society for Artificial Organs, August 17-23, 1991, Montréal, Québec, Canada.
13. **Dixit V**, Piskin E, Arthur M, Denizli A, Tuncel SA, Denkbaz E, Gitnick G. *Hepatocytes on PHEMA microcarriers*. 38th annual meeting of the American Society for Artificial Internal Organs, May 7-9, 1992, Nashville, TN, USA.
14. Piskin E, **Dixit V**, Serbetci AI, Arthur M, Vidrich A, Li R, Gitnick G. *IEC cultures on polyurethane surfaces*. 38th annual meeting of the American Society for Artificial Internal Organs, May 7-9, 1992, Nashville, TN, USA.
15. Piskin E, **Dixit V**, Serbetci AI, Arthur M, Vidrich A, Li R, Gitnick G. *Attachment and growth of intestinal epithelial cells on different polymeric surfaces*. 92nd annual meeting of the American Gastroenterological Association, May 10-13, 1992, San Francisco, CA, USA.
16. **Dixit V**, Piskin E, Arthur M, Denizli A, Tuncel SA, Denkbaz E, Gitnick G. *Immobilization of hepatocytes on PHEMA microcarriers*. 34th International Union of Pure and Applied Chemistry, International Symposium on Macromolecules, June 13-18, 1992, Prague, Czechoslovakia.
17. **Dixit V**, Piskin E, Denizli A, Tuncel S, Denkbaz E, Arthur M, Gitnick G. *Hepatocyte immobilization on polymeric microcarriers: a novel tissue engineering concept for a hybrid bioartificial liver*. 43rd annual meeting of the American Association for the Study of the Liver, October 31 - November 3, 1992, Chicago, IL, USA.
18. **Dixit V**, Piskin E, Arthur M, Serbetci A, Tuncel S, Gitnick G. *Preliminary studies towards the separation of intestinal epithelial cells from fibroblast contamination with a novel polyfluorostyrene*

*surface*. Western Society for Clinical Investigation annual meeting, February 17-20, 1993, Carmel, CA, USA.

19. Martin P, Brezina M, DiNello R, **Dixit V**, Polito A, Quan S, Gitnick G. *Enhanced detection of hepatitis C antibodies by modified recombinant immunoblot assay*. Fourth International Symposium on Hepatitis C. May 7-9, 1993, Tokyo, Japan.
20. **Dixit V**. *Development of a bioartificial liver using isolated hepatocytes*. IXth World Congress of the International Society for Artificial Organs, July 4-8, 1993, Amsterdam, The Netherlands.
21. **Dixit V**. *Artificial cells containing hepatocytes as a bioartificial liver*. IXth World Congress of the International Society for Artificial Organs, July 4-8, 1993, Amsterdam, The Netherlands.
22. **Dixit V**, Lucas J, Arthur M, Gitnick G. *Xenotransplantation of microencapsulated hepatocytes as a bioartificial liver: quantitation of splenocyte proliferative response*. IXth World Congress of the International Society for Artificial Organs, July 4-8, 1993, Amsterdam, The Netherlands.
23. Piskin E, **Dixit V**, Arthur M, Tuncel A, Gitnick G. *Separation of intestinal cells from fibroblasts with PFS surfaces*. IXth World Congress of the International Society for Artificial Organs, July 4-8, 1993, Amsterdam, The Netherlands.
24. Denizli A, **Dixit V**, Arthur M, Denkbas E, Gitnick G, Piskin E. *Collagen and fibronectin immobilization onto PHEMA microbeads to improve cell attachment*. IXth World Congress of the International Society for Artificial Organs, July 4-8, 1993, Amsterdam, The Netherlands.
25. **Dixit V**, Arthur M, Gitnick G. *Immunoisolation of microencapsulated rat hepatocytes following repeated transplantation in guinea pigs: A quantitative assessment*. 9th International Symposium on Microencapsulation, September 13-15, 1993, Ankara, Turkey.
26. **Dixit V**. *Transplantation of Isolated Hepatocytes and Their Role in Extrahepatic Life Support Systems*. Current Topics in Gastroenterology 1993 , October 31 - November 2, 1993, Miami, FL., USA.
27. **Dixit V**, Arthur M, Gitnick G. *Quantitative assessment of the immunogenicity of microencapsulated hepatocytes following repeated cross-species transplantations without immunosuppression*. 44th annual meeting of the American Association for the Study of the Liver, November 4-7, 1993, Chicago, IL, USA.
28. Martin P, Brezina M, **Dixit V**, DiNello R, Quan S, Polito A, Gitnick G. *Acquisition of hepatitis C virus by hemodialysis patients*. 44th annual meeting of the American Association for the Study of the Liver, November 4-7, 1993, Chicago, IL, USA.
29. **Dixit V**, Gitnick G. *Artificial-Cell-Immobilized Hepatocytes As a Bioartificial Liver*. XI Congress of the International Society for Artificial Cells and Immobilization Biotechnology, Boston, MA. July 24-27, 1994
30. **Dixit V**, Piskin E, Denizli A, Kozluca A, Arthur M, Gitnick G. *Design of an extracorporeal bioartificial liver support device: a preliminary study using tissue engineering methodology*. 10th World Congresses of Gastroenterology, October 2-7, 1994, Los Angeles, CA, USA.

31. Ko C, **Dixit V**, Shaw W, G. Gitnick. *Sustained release of angiogenic growth factors yields markedly increased in vivo neovascularization*. Western Society for Clinical Investigation annual meeting, February 8-11, 1995, Carmel, CA, USA.
32. **Dixit V**, Biggins S, Martin P, Gitnick G. *A novel hepatocyte bioreactor design for artificial liver support*. Western Society for Clinical Investigation annual meeting, February 8-11, 1994, Carmel, CA, USA.
33. **Dixit V**. *Microencapsulated hepatocytes*. Keystone Symposia on Molecular and Cellular Biology: Science and Engineering of Immunoprotected Cell Transplants, April 2-8, 1995, Frisco, CO, USA.
34. Ko C, **Dixit V**, Shaw W, G. Gitnick. *Enhanced neovascularization by sustained slow release of endothelial cell growth factor for the development of tissue organoids in vivo*. American Society for Artificial Internal Organs annual meeting, May 4-6, 1995, Chicago, IL, USA.
35. **Dixit V**, Biggins S, Martin P, Gitnick G. *The design and preliminary evaluation of a novel extracorporeal bioartificial liver support device*. American Society for Artificial Internal Organs annual meeting, May 4-6, 1995, Chicago, IL, USA.
36. **Dixit V**, Biggins S, Martin P, Gitnick G. *A new extracorporeal bioartificial liver support device: design characteristics and preliminary evaluation*. 95th annual meeting of the American Gastroenterological Association, May 14-17, 1995, San Diego, CA, USA.
37. Ko C, **Dixit V**, Shaw W, G. Gitnick. *Rapid and enhanced neovascularization for in vivo development of liver-tissue organoids by sustained slow release of angiogenic growth factor*. 95th annual meeting of the American Gastroenterological Association, May 14-17, 1995, San Diego, CA, USA.
38. Elcin YM, **Dixit V**, Gitnick G. *Controlled release of endothelial cell growth factor from chitosan-albumin microspheres for localized angiogenesis*. 12th Congress of the European Society for Artificial Organs, Berlin, Germany, October 19-21, 1995.
39. Elcin YM, **Dixit V**, Gitnick G. *Hepatocyte attachment on modified chitosan membranes*. 12th Congress of the European Society for Artificial Organs, Berlin, Germany, October 19-21, 1995.
38. **Dixit V**, Biggins S, Friedlich D, Arthur M, Chen S, Rozga J, Martin P, Demetriou A, Gitnick G. *Preliminary evaluation of a new extracorporeal liver support system in fulminant hepatic failure rats*. 46th annual meeting of the American Association for the Study of the Liver, November 3-7, 1995, Chicago, IL, USA.
40. **Dixit V**, Arthur M, Biggins S, Gitnick G. *Isolated fetal porcine hepatocytes: applications in cell transplantation and bioartificial liver support systems*. 46th annual meeting of the American Association for the Study of the Liver, November 3-7, 1995, Chicago, IL, USA.
41. **Dixit V**, Quan S, Martin P, Larson D, Brezina M, DiNello R, Sra K, Lau JYN, Chien D, Kolberg J, Tagger A, Davis G, Polito A, Gitnick G. *Evaluation of a novel serotyping system for hepatitis C: strong correlation with standard genotyping methods*. 46th annual meeting of the American Association for the Study of the Liver, November 3-7, 1995, Chicago, IL, USA.

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48. **Dixit V**, Elcin YM, Lewin K, Gitnick G. *Tissue engineering studies involving xenotransplantation of fetal porcine hepatocytes in rats using biodegradable polymer scaffolds*. 42<sup>nd</sup> annual meeting of the American Society for Artificial Internal Organs, May 2-4, 1996, Washington, DC, USA.
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57. Lee W.Y, **Dixit V**, Ke B, Arthur M, Biggins S, Imagawa D, Gitnick G. *Effect of UV-B irradiation on adenovirus gene transfer in hepatocytes*. International Symposium on Hepatology, Taipei, Taiwan, Nov. 29 - Dec. 1, 1996.
58. Lee W.Y, **Dixit V**, Ke B, Arthur M, Biggins S, Imagawa D, Gitnick G. *Effect of UV-B irradiation on adenovirus gene transfer in hepatocytes*. Western Society for Clinical Investigation annual meeting, February 5-8, 1997, Carmel, CA, USA.
59. **Dixit V**, Gitnick G. *Developmental studies with the UCLA bioartificial liver*. Bionic Design Workshop, National Institute for Advanced Interdisciplinary Research (NAIR), March 18-19, 1997, Tsukuba, Japan.
60. Fabrizi F, **Dixit V**, Brezina M, Russell J, Conrad A, Schmid P, Gitnick G, Martin P. *Detection of de novo hepatitis C virus (HCV) infection by polymerase chain reaction (PCR) in hemodialysis patients*. 43<sup>rd</sup> annual meeting of the American Society for Artificial Internal Organs, April 30-May 3, 1997, Atlanta, GA, USA.
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*disease patients presenting for renal transplantation.* 100th annual meeting of the American Gastroenterological Association, May 10-16, 1997, Washington, DC, USA.

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66. Fabrizi F, **Dixit V**, Brezina M, Russell J, Conrad A, Martin P, Gitnick G. *Hepatitis G virus and other blood-borne viruses in chronic hemodialysis (HD) patients: an epidemiological evaluation.* XIth World Congress of the International Society for Artificial Organs, June 28-July 3, 1997, Providence, RI, USA.
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69. Dong P, **Dixit V**, Arthur M, Robert J, Martin P, Gitnick G. *Non-surgical Intrahepatic Hepatocyte Transplantation with Fluoroscopic Guidance* Western Society for Clinical Investigation annual meeting, February 4-7, 1998, Carmel, CA, USA.
70. Franc B, **Dixit V**, Arthur M, Simon B, Gitnick G. *Flow Dynamics and Metabolic Evaluation of a Packed-Column Bioartificial Liver.* Western Society for Clinical Investigation annual meeting, February 4-7, 1998, Carmel, CA, USA.
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73. Martin P, Fabrizi F, **Dixit V**, Brezina M, Cole MJ, Gerosa S, Vinson S, Mousa M, Gitnick G. *Biological dynamics of viral load in hemodialysis (HD) patients with hepatitis C virus.* 101st annual meeting of the American Gastroenterological Association, May 17-20, 1998, New Orleans, LA, USA.
74. Martin P, Fabrizi F, Quan S, **Dixit V**, Brezina M, Polito A, Gitnick G. *Application of RIBA™-HCV serotyping SIA in hemodialysis patients: a comparison with genotyping assay.* 49<sup>th</sup> Annual Meeting of the American Association for the Study of Liver Diseases, November 6-10, 1998, Chicago, IL, USA.



75. Elçin YM, **Dixit V**, Arthur M, Gitnick G. *Functional characteristics of primary rat hepatocytes in monolayer and on three-dimensional PLGA scaffolds*. 102nd annual meeting of the American Gastroenterological Association, May 15-19, 1999, Orlando, FL, USA.
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77. Takimoto Y, **Dixit V**, Arthur M, Gitnick G. *Direct evidence of de novo tissue engineered liver in rats transplanted with a collagen-based polypropylene composite scaffold*. 103rd annual meeting of the American Gastroenterological Association, May 21-24, 2000, San Diego, CA, USA.

#### **THESIS PUBLICATIONS**

1. **Dixit V**. *The effect of chilling temperatures on cucumber plants*. B.Sc. Honors Thesis, © V. Dixit, Concordia University, 1978.
2. **Dixit V**. *The effect of ACAC hemoperfusion on the removal of free and protein-bound polypeptides*. M.Sc. Thesis, © V. Dixit, McGill University, 1980.
3. **Dixit V**. *The physiological actions of prostaglandin E<sub>2</sub> on the liver and blood-brain barrier of galactosamine-induced fulminant hepatic failure rats*. Ph.D. Thesis, © V. Dixit, McGill University, 1985.

#### **OTHER INTERESTS AND EXTRACURRICULAR ACTIVITIES**

Cartography, digital photography, 3-D design and simulation software (Maya), modern architecture, ancient Indian history/philosophy/music. Volunteer – American Red Cross.

*A list of references is available on request.*