

CURRICULUM VITAE AND BIBLIOGRAPHY

David George Frame, Pharm.D.
Hematology/Oncology/BMT Clinical Specialist
University of Michigan Health System

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BIRTHPLACE: Belleville, IL, USA

LICENSURE: Michigan, Illinois

EDUCATION:

1978-1982 Belleville Township High School West, Belleville, Illinois
1982-1986 St. Louis University, St. Louis, Missouri (B.S. Chemistry)
1986-1990 Wayne State University, Detroit, Michigan (Grad. School Biochemistry)
1990-1993 Wayne State University, Detroit, Michigan (B.S. Pharmacy)
1993-1994 Wayne State University, Detroit, Michigan (Pharm.D.)
1994-1995 Fellowship (Oncology), University of Illinois at Chicago

ACADEMIC APPOINTMENTS:

1986-1988 Research Assistant, Endocrinology, St. Louis University School of Medicine
1989-1994 Faculty (Biochemistry) Wayne State University School of Medicine
1995- Present Associate Clinical Professor of Pharmacy, University of Illinois at Chicago
1995- Present Associate Clinical Professor of Pharmacy, Midwestern College of Pharmacy
2002-2005 Assistant Professor of Medicine, Rush University
2003-2006 Assistant Professor of Pharmacology, Rush University Medical School
2005- Present Assistant Professor of Pharmacy, University of Michigan

UNIVERSITY OF MICHIGAN APPOINTMENTS:

2006- Present Committee- Pharm.D Investigations
2005- Present Committee- Quality Control BMT

PROFESSIONAL EXPERIENCE:

1991-1992 Pharmacy Intern, Community Pharmacy,
1990-1994 Pharmacist and Intern, Children's Hospital of Michigan, Detroit, Michigan
1996-1997 Oncology Consultant, Copley Memorial Hospital, Aurora, Illinois

Dr. Reddy's Laboratories, Ltd., et al.
v.
Helsinn Healthcare S.A., et al.
U.S. Patent No. 8,729,094

- 1995-1999 Hematology/Oncology Clinical Specialist, RUSH-Presbyterian-St. Luke's Medical Center, Chicago, Illinois
- 1999-2005 Director of Clinical Hematology/Oncology Pharmacy Services and Research, RUSH-Presbyterian-St. Luke's Medical Center (now Rush University Medical Center), Chicago, Illinois
Responsibilities include:
- Oversee of all clinical pharmacy oncology services (outpatient clinic, inpatient floor service, bone marrow transplant service)
 - Palliative care team member
 - Pain monitoring and control
 - Hematology/Oncology patient outcomes monitoring
 - Anti-infective monitoring for appropriateness and outcomes
 - Cancer Institute research internal review board member
 - Writing, Collaborating, and Consulting on Clinical Hematology/Oncology/BMT research protocols
 - Member of Hospital Cancer Committee
 - QA/QI committee co-chair for pharmacy and nursing
 - Development of Anticoagulation service for inpatients as well as outpatient for hip and knee replacements
 - Development of an inpatient anticoagulation consult service
 - Development of an anticoagulation research group
- 2003-2005 Assistant Professor of Pharmacology, Rush University Medical Center
- Teaching Pharmacology for second year medical students (General Principles, Kinetics, Rheumatology, Immunosuppressives, Oncology, Anticoagulation, Nausea and Vomiting)
 - Teaching Masters and Ph.D. students (Kinetics, Oncology, Anti-infectives, Anticoagulation, GI)
- 2005- present Assistant Professor of Pharmacy, Clinical Hematology/Oncology/BMT Specialist, University of Michigan

PROFESSIONAL SOCIETIES:

- 1990- 1994 Academy of Students of Pharmacy
- 1990- 1994 Michigan Pharmacists Association
- 1991-1994 Southeastern Michigan Society of Hospital Pharmacists
- 1993- Present American College of Clinical Pharmacy
- 1994- Present American Society of Health System Pharmacists
- 1998- Present American Society of Clinical Oncology
- 1998- Present International Society of Oncology Pharmacists -Publications, Education and Research Committees
- 2004- Present Hematology/Oncology Pharmacy Association (HOPA)-, Research Committee

ACADEMIC HONORS AND AWARDS:

- 1984-1986 Phi Lambda Epsilon Honor Society, St. Louis University
- 1985-1986 St. Louis University President Advisory Board
- 1985 Monsanto Research Fellowship, St. Louis University
- 1986-1987 Toyota Fellowship, Wayne State University

1986	Graduated Magna Cum Laude, St. Louis University
1986	The Marcus Research Award, St. Louis University
1986	Alpha Epsilon Delta Honor Society, St. Louis University
1988-1989	Graduate Research Assistantship, Wayne State University
1989-1991	Public Health National Research Service Award
1991	Schering Future Pharmacist Award
1991	Wayne County Pharmaceutical Society Scholarship
1992	Allen and Hanbury's Scholarship Award
1992	Pharmacy Alumni Association Scholarship
1992	Rho Chi National Honor Society
1992	Wayne State University Pharmacy Curriculum Committee
1993	Wayne State Pharmacy Class President
1993	Eli Lilly Achievement Award
1993-1994	Wayne State University Graduate School Scholarship
1993-1994	Michigan Health Care Education and Research Scholarship
1999	RUSH Medical Center Team of the Year Award
1999	American Society of Health System Pharmacists Drug Research Award

RESEARCH EXPERIENCE:

Molecular Biology:

- Apoptosis
- Carcinogenesis

Chemistry/Biochemistry:

- Oligonucleotide synthesis in solution and solid phase
- Palladium catalysis reactions

Kinetics:

- Kinetics of Valsartan in Renal Failure
- Interaction of Itraconazole and Phenytoin
- Kinetics of Gengraf- a cyclosporine formulation
- Kinetics of Rituximab in CLL

Quality of Life:

- Quality of life in patients with hypertension
- Antiemetic Outcome studies in oncology and Post-operatively
- Pain Outcome Monitoring
- Supportive care management

Anticoagulation

- Kinetics of anti-Xa and outcomes with Lovenox in renal insufficient patients

Hematology/Oncology

- Supportive care protocols- Nausea and Vomiting, Anemia, GVHD, Bone Health
- Development of Infection and Antifungal Guidelines
- Annual Nursing Training- Nausea and Vomiting

SELECT PRESENTATIONS:

2015	American Managed Care Pharmacy- Annual Meeting "Managed Care Considerations in Multiple Myeloma"
2015	Hematology/Oncology Pharmacy Association Annual Meeting "Immunotherapy in Oncology"

- 2014 Hematology Oncology Pharmacy Association Northeast Annual Meeting
“Updates in Bone Marrow Transplant”
- 2104 University of Illinois Annual Oncology Updates
“Updates in Hemophilia, ITP and Aplastic Anemia”
- 2013 Hematology Oncology Pharmacy Association Northeast Annual Meeting
“Updates in Multiple Myeloma”
- 2011 American Society of Blood and Marrow Transplant- Annual Meeting San Diego
“The Rationale and Role of Reduced Intensity Transplants”
- 2009 Hematology Oncology Pharmacy Association- Annual Meeting Salt Lake City
“Pharmacogenomics in Oncology”
- 2008 American Society of Health System Pharmacists- Annual Meeting San Francisco
“Pharmacy Considerations and Updates in CML”
- 2007 Hematology/Oncology Pharmacy Association- Annual Meeting Denver, CO
“Mechanisms of Oral Tyrosine Kinase Inhibitors”
- 2006 American Society of Managed Care Annual Meeting- San Diego
“New Therapies and Economics in CML”
- 2006 Asia Pacific Oncology Pharmacy Congress- Thailand
“Treatments Options in Anemia”
“Targeted Therapies In Cancer”
“Pharmacogenetics and Cancer”
- 2005 International Society of Oncology Pharmacy Practicioners- Kuala Lumpur
“Pharmacogenomics in Oncology”
“New Therapeutic Targets”
- 2004 American Society of Health System Pharmacists- Midyear Meeting
“DNA methylation- A New Therapeutic Target”
“Antiemetics: New Therapeutic Rationales and Cost Effectiveness”
- 2004 Making a Difference in Oncology National Meeting
“Making Sense out of Anti-sense”
“Gallium: New Therapy for Resistant Hypercalcemia”
- 2003 Making a Difference in Oncology National Meeting- Phoenix
“Updates in Breast and Lung Cancer”
“Apoptosis, Angiogenesis and Second Messengers”
- 2003 Focus on Fungal Infection International Meeting- Maui
“New Preventative Strategies in Antifungal Therapy”- Presentation
“Low dose liposomal amphotericin is effective in prevention of fungal infections in allogeneic bone marrow transplant”- abstract
- 2003 Supportive Care in Cancer International Meeting- Bermuda
“Erythropoeitic agents: What do we really know?”
- 2002 International Society of Oncology Pharmacists International Meeting- Vancouver 2002
“Apoptosis: A new target in Oncology Therapeutics”
“Cell Cycle and New Therapeutic Targets in Oncology”

- 2001 Oncology Nursing Society- Chicago Chapter
"Updates on New Drugs in Oncology"
- 2000 Australian Clinical Society of Oncology National Meeting- Adelaide
" Oncology agents with new molecular mechanisms"
" Monoclonal antibodies in cancer"
" Update on current phase I and II oncology trials"
- 2000 International Society of Oncology Pharmacists International Meeting-Prague
"Pharmacokinetics of the Taxanes"
- 1999 Oncology Nursing Society- Chicago Chapter-
"New oral chemotherapy drugs"
- 1998 Oncology Nursing Society- National Meeting
"Hypercoagulation in Oncology Patients"
- 1998 University of Iowa Oncology Grand Rounds
" Antiemetics and Supportive Care in Oncology"
- 1998 Memorial Sloan Kettering- Pharmacy Grand Rounds
" Updates in Antifungal therapy and use in Oncology"
- 1998 Missouri Chapter ASHP
"Updates in Oncology therapeutics- new targets and mechanisms"
- 1996 American Society of Health System Pharmacists- Midyear Meeting
"Mechanisms of Resistance in the Treatment of Breast Cancer"
- 1996 American Society of Health System Pharmacists- Midyear Meeting
" Liposomes: an overview of drug products with an emphasis on anthracyclines"

PUBLICATIONS:

- April 1993 Platform presentation for American College of Clinical Pharmacy
"Gender and racial differences in the usage of thrombolytic agents in acute myocardial infarction"
- May 1989 Abstract for the American Association for Cancer Research
"Automated chemical synthesis of oligonucleotides containing site-specifically incorporated acetylaminofluorene adducts"
- April, 1997 KeePosted
" Liposomes: Drug Delivery Tools"
- June, 1998 Fertility and Sterility
" Spontaneous apoptosis of endometrial tissue is impaired in women with endometriosis"
- October, 1998 Archives of Internal Medicine
"Efficacy of Ondansetron vs Prochlorperazine in Post Operative Nausea and Vomiting after Total Hip or Knee Relacement"
- December, 1999 Bone Marrow Transplantation
" Intravesicular instillation of E-aminocaproic acid for patients with adenovirus-induced hemorrhagic cystitis"

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