

CURRICULUM VITAE

Name: Jacqueline M. Kraveka, D.O

Office Address: Department of Pediatrics
Division of Pediatric Hematology-Oncology
Medical University of South Carolina
135 Rutledge Avenue, Room 480
MSC 558
Charleston, SC 29425

Education :

<u>Institution/Location</u>	<u>Years</u>	<u>Degree/Date</u>	<u>Field of Study</u>
Columbia College, Columbia University New York, New York	1984-1989	B.A., October 1989	History/Pre-medical

Nova Southeastern University College of Osteopathic Medicine North Miami Beach, Florida	1994-1997	D.O., May 1994	Medicine
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Internship:

Pediatric Residency Training Program, Miami Children's Hospital, Miami, FL
Dates: July 1, 1994 - June 30, 1995

Residencies or Post Doctoral:

Pediatric Residency Training Program, Miami Children's Hospital, Miami, FL
Dates: July 1, 1995 - June 30, 1997

Pediatric Hematology-Oncology Fellowship Program, Medical University of South Carolina,
Charleston, SC
Dates: July 1, 1997 - June 30, 2000

Specialty/Board Certification:

American Board of Pediatrics	Date: 1997
American Sub-Board of Pediatric Hematology-Oncology	2000, 2007

Faculty Appointments:

<u>Years</u>	<u>Rank</u>	<u>Institution</u>	<u>Department</u>
2000-present	Assistant Professor of Pediatrics	Medical University of South Carolina	Pediatrics

Administrative Appointments:

<u>Years</u>	<u>Position</u>	<u>Institution</u>	<u>Department</u>
2002 - 2007	Director, Pediatric Bone Marrow Transplant Program	MUSC	Pediatrics
2006 - present	Director, Pediatric Hematology-Oncology Fellowship Program	MUSC	Pediatrics
2006 - 2008	Interim Director, Division of Pediatric Hematology-Oncology	MUSC	Pediatrics
2006 - 2008	Medical Director 7B Children's Hospital	MUSC	Pediatrics

Hospital Appointments/Privileges:

<u>Years</u>	<u>Active/Inactive</u>	<u>Institution</u>
2000 - present	Active	MUSC Children's Hospital

Other Experience:

Member, Hollings Cancer Center
Member, Lipid Signaling in Cancer Program at the Hollings Cancer Center

Membership in professional/scientific societies):

American Academy of Pediatrics (Fellow)
American Association for the Advancement of Science
American Association for Cancer Research
American College of Osteopathic Pediatricians (Fellow)
American Society for Clinical Oncology
American Society of Hematology
American Society of Pediatric Hematology Oncology
American Osteopathic Association
Children's Oncology Group (Full Member)
Society for Pediatric Research

Editorial Positions:

Ad-hoc reviewer, *Journal of Pediatric Hematology-Oncology*
Ad-hoc reviewer, *Biochimie*

Extramural Grants/award amount (current and past):

- 1) St Baldrick's Foundation. "Metabolomic Profiling of Bioactive Sphingolipids in Neuroblastoma" (07/01/2008- 06/30/2009) Award: \$50,000, Principal Investigator: Jacqueline M Kraveka, 5% Effort
- 2) Rally Foundation. Grant Support for Neuroblastoma Research (04/01/2008 - 03/31/2009) Award: \$15,000 Principal Investigator: Jacqueline M Kraveka, 5%
- 3) NIH K01 CA100767. *The Role of Ceramide in Human Neuroblastoma Differentiation* (09/01/2003 - 08/31/2008) Award: \$624,750, Principal Investigator: Jacqueline M Kraveka, 75% Effort
- 4) NIH U10 CA98543. *Children's Oncology Group Chair Grant* (03/01/2003 - 02/29/2009) Award: \$96,353 Principal Investigator: Greg Reaman, M.D. Subcontract No. 12002 to Jacqueline M Kraveka as Study Chair for *COG Protocol ANHL0131: A Phase III Trial of Treatment of Advanced-Stage Anaplastic Large Cell Lymphoma (ALCL) with Standard APO (Doxorubicin, Prednisone, Vincristine) versus Consolidation with a Regimen Including Vinblastine*. 5% Effort
- 5) NIH U10 CA98543. *Children's Oncology Group Master Grant* (03/01/2006 - 03/01/2009) Award: \$125,921 Principal Investigator: Greg Reaman, M.D. Subcontract to Jacqueline M Kraveka for support as COG Institutional PI. 5% Effort
- 6) NIH P20 RR 17677. *COBRE in Lipidomics and Pathobiology* (09/30/2002 - 08/31/2007) Award: \$511,000 Principal Investigator: Lina Obeid, M.D., Co-Principal Investigator: Yusuf Hannun, M.D. Principal Investigator of Project 4: Jacqueline M Kraveka (*Role of Ceramide in Human Neuroblastoma Differentiation and Treatment*) 5% Effort
- 7) Rally Foundation. Grant Support for Neuroblastoma Research (04/01/2007 - 03/31/2008) Award: \$5,000 Principal Investigator: Jacqueline M Kraveka, 5%
- 8) Coastal Community Foundation Amanda's Fund. Grant Support for Can-teen Program (01/1/2007 -12/31/2008) Award: \$1,500 Principal Investigator: Jacqueline M Kraveka
- 9) Coastal Community Foundation. Grant Support for Can-teen Program (10/1/2005 - 06/30/2007) Award: \$5,000 Principal Investigator: Jacqueline M Kraveka

10) Children's Chance Foundation. Grant Support for Can-teen Program (11/23/2005 - 06/30/2007) Award: \$5,000 Principal Investigator: Jacqueline M Kraveka

11) Enzon Pharmaceuticals, Inc. Educational Grant for Support of Fellowship Program (02/13/2006 - 02/12/2007) Award: \$3,500 Principal Investigator: Jacqueline M Kraveka

Intramural Grants/amount of award: Not applicable

Awards, Honors, Membership in Honorary Societies:

2008 Marquis Who's Who in America, 2007 (Also listed in 61st and 60th eds)
2006 Elected to Membership, Society for Pediatric Research
2006 Nominee - MUSC College of Medicine Student Council Faculty Excellence Award
2006 Recipient – Carl Storm Underrepresented Minority Fellowship for the 2006 Gordon Research Conference on Glycolipid & Sphingolipid biology
2002-2006 Recipient – National Institutes of Health Loan Repayment Program for Pediatric Research
2006 Marquis Who's Who in the World, 2005 (23rd ed)
2006 Marquis Who's Who of American Women, 2005 (25th ed)
2004 Marquis Who's Who in Medicine and Healthcare, 2004-2005 (5th ed)
2002 American Association for Cancer Research Minority Scholar Award in Cancer Research
2000 American Association for Cancer Research Minority Scholar Award in Cancer Research
1997 Miami Children's Hospital – Arturo J. Aballi, M.D. Annual Education Award
Presented by the attending faculty to a graduating resident in recognition of academic contribution to the field of pediatrics during residency training.
1997 Miami Children's Hospital – Augustin W. Castellanos, M.D. Award
Presented by the housestaff in recognition of outstanding performance as pediatric resident of the year.
1997 Greater Miami Pediatrics Society – Resident of the Year Award
1997 American Medical Association – Physician's Recognition Award
1997 Miami Children's Hospital - Ambulatory Pediatrics Award
Presented to the best resident physician in recognition of the effort, contribution and overall performance in ambulatory pediatrics during the 1996-1997 academic year
1996 Miami Children's Hospital - Ambulatory Pediatrics Award
Presented to the best resident physician in recognition of the effort, contribution and overall performance in ambulatory pediatrics during the 1995-1996 academic year
1994 Nova Southeastern University Chancellor's Award
Presented to the senior student "who best exemplified the characteristics of a fine osteopathic physician - a combination of scholarship, leadership, integrity, humanity, and loyalty to the profession"
1994 NOWPA Senior Scholastic Achievement Award
Presented by the National Osteopathic Women Physicians Association to the senior student in the chapter with the highest scholastic average.
1993 Student D.O. of the Year Award
1993 Who's Who Among Students in American Universities and Colleges
1987 Columbia University Summer Undergraduate Research Fellowship

Academic Committee Activities (past 5 years):

Hollings Cancer Center Protocol Review Committee
Children's Hospital Infection Prevention Committee

Major Teaching Responsibilities (Current):

Involved in teaching medical students, residents, fellows as part of daily responsibilities of clinical practice.

Undergraduate Medical Education

Co-Director of the Third-Year Selective in Pediatric Hematology and Oncology
Graduate Medical Education

Lecturer, Pediatric Resident noon conferences
Preceptor, for Residents and Fellows on the Pediatric Inpatient Hematology-
Oncology Inpatient Rotations
Lecturer, Pediatric Hematology-Oncology Fellows Core Curriculum Lecture
Series
Preceptor, for Residents and Fellows on the Pediatric Hematology-Oncology
Outpatient Clinic Rotation

Continuing Medical Education

Series Coordinator, Pediatric Tumor Board

Mentorship:

2008 - present	Member, Scholarship Oversight Committee, Joceyln Lewis, D.O., Fellow Pediatric Hematology-Oncology
2007- present	Research mentor for Heather Escoto, M.D., Fellow, Pediatric Hematology-Oncology in my laboratory. Project entitled "Metabolomic Profiling of Bioactive Sphingolipids in Neuroblastoma".
2007 - present	Leslie Wooten Blanks, PhD, Post-Doctoral Fellow in my laboratory at MUSC. Project entitled, "Regulation of the Human Dihydroceramide Desaturase Enzyme." She was selected as a postdoctoral trainee supported by the NIH Institutional Postdoctoral Training Grant, NIH-CA119945-03- <i>Training in Cancer Therapeutics</i> effective July 1, 2008
2006 - present	Mehrdad Rahmaniyan, M.D., Post-Doctoral Fellow in my laboratory at MUSC. Project entitled, "Localization of the Human Dihydroceramide Desaturase Enzyme."
2005 - 2006	Junfei Jin, M.D., Post-Doctoral Fellow in my laboratory at MUSC. Project entitled, "Localization of the Human Dihydroceramide Desaturase Enzyme." Current Position: Postdoctoral Fellow in the Laboratory of Yi-Te Hsu at MUSC
2005	Research Mentor to Naval Parikh, MUSC Summer Research Fellowship Program,
2004 - 2007	Member, Fellowship Advisory Committee, Lisa Johnson, M.D., Fellow Pediatric Hematology-Oncology
2003 - 2006	Lucille Ferrante, M.D., Fellow Pediatric Hematology-Oncology. Project entitled "Risk Factors for Chronic ITP" Current Position: Director, St Jude's Hospital Outreach Clinic at Huntsville Hospital, Huntsville, AL
2002 - 2005	Iyad Sultan, M.D., Fellow Pediatric Hematology-Oncology, Project entitled "Hypercalcemia in Acute Lymphoblastic Leukemia" Current Position: Consultant, Pediatric Hematology -Oncology, King Hussein Cancer Center Amman, Jordan
2001	Parallel Curriculum Preceptor; Medical University of South Carolina, Charleston, S.C

Other Interests: Research Interests:

- 1) As a Principal Investigator in the Center for Childhood Cancer and Blood Disorders in the Darby Children's Research Institute, my current research focuses on sphingolipid

mediated signal transduction in neuroblastoma; the function and regulation of the enzyme dihydroceramide desaturase in human cancer; and the regulation of *MYCN* oncogene by sphingolipids. The long-term goals of my research are to develop novel therapeutic strategies for the treatment of neuroblastoma.

- 2) As the institutional Children's Oncology Group Principal Investigator, I am responsible for the conduct of over 60 COG Phase II and Phase III Clinical Trials currently open for patient accrual at the Medical University of South Carolina

Major Clinical Interests and Responsibilities:

Attending Pediatric Oncologist at MUSC: During on-service months, clinic days and nights' on-call: overseeing resident, fellows and nurse practitioners in the care of pediatric hematology oncology patients.

Lectures and Presentations during the last 3 years –

Invited lectures and presentations:

Update on Sickle Cell Disease” Invited lecture at the South Carolina Osteopathic Medical Society & Georgia Osteopathic Medical Association 2008 Annual Convention, 2008 June 15, Hilton Head Island, SC

“Updates on Pediatric Head and Neck Tumors” ENT Grand Rounds, Medical University of South Carolina, 2008 February 12, Charleston, SC

“Dihydroceramide Desaturase Enzyme as a Novel Target for Neuroblastoma” invited presentation at the H. Biemann Othersen Jr. Visiting Professorship Lecture, Medical University of South Carolina 2007 February 16, Charleston, SC

“Novel Biologic Functions for Dihydroceramides” South Carolina COBRE in Lipidomics & Pathobiology Seminar Series, Medical University of South Carolina, 2007 January 18, Charleston, SC

“Diagnosis and Management of Pediatric Head and Neck Tumors” ENT Grand Rounds, Medical University of South Carolina, 2005 September 13, Charleston, SC

“Characterization of the Human Dihydroceramide Desaturase Enzyme” South Carolina COBRE in Lipidomics & Pathobiology Seminar Series, Medical University of South Carolina, 2005 May 30, Charleston, SC

Submitted presentations (e.g., abstract or paper presentations):

Rahmaniyan M, Kitatani K, Wooten L, Li L, , Novgorodov SA, Bielawski J, Jin J, Bielawska A, Szulc ZM, Hannun YA, Obeid LM, **Kraveka JM** “Localization of the Human Dihydroceramide Desaturase Protein” Poster Presentation at the 21st Annual Meeting of the American Society of Pediatric Hematology Oncology 2008 May 14-17 Cincinnati, OH

Idkowiak-Baldys J, Fozail A, Li L, Bielawski J, Hannun YA, **Kraveka JM**, “Modulation of Dihydroceramide Desaturase Activity by Hydrogen Peroxide” Poster Presentation at the Charles Darby Children's Research Institute 3rd Annual Research Day, 2008 February 28-29, Charleston, SC

Wooten-Blanks L, **Kraveka JM**, “Exploring Subcellular Localization As a Possible Mechanism of Dihydroceramide Desaturase Activity Modulation Following Exposure to Reactive Oxygen Species in Human Neuroblastoma Cells” Poster Presentation at the Charles Darby Children's Research Institute 3rd Annual Research Day, 2008 February 28-29, Charleston, SC

Kraveka JM, Szulc Z, Bielawski J, Ogretmen B, Hannun YA , Obeid LM, Bielawska A
“Involvement of the Dihydroceramide Desaturase in Cell Cycle Progression in Human Neuroblastoma” Poster Presentation at the Pediatric Academic Societies Annual Meeting, 2007 May 5-8 Toronto, Canada

Kraveka JM, Li L, Szulc Z, Bielawski J, Ogretmen B, Hannun YA , Obeid LM, Bielawska A
“Inhibition of Dihydroceramide Desaturase Activity and Its Effects on Cell Cycle Progression In Human Neuroblastoma Cells” Oral Presentation at the 4th International Charleston Ceramide Conference, 2007 March 7-11 Pacific Grove, CA

Idkowiak-Baldys J, Li L, Fozail A, **Kraveka JM**, Hannun YA “Modulation of Dihydroceramide Desaturase Activity by Hydrogen Peroxide and its Effect on cPKC translocation” Poster Presentation at the 4th International Charleston Ceramide Conference, 2007 March 7-11 Pacific Grove, CA

Kraveka JM “Dihydroceramide Desaturase Enzyme as a Target for Neuroblastoma Therapy” Poster presentation at the Advances in Neuroblastoma Research Meeting, 2006 May 17-20 Los Angeles, CA

Kraveka JM, Li L, Szulc ZM, Bielawski J, Hannun YA, Obeid LM, Ogretmen B, Bielawska A
“Study on the Human Dihydroceramide Desaturase Enzyme: Use of siRNA and dihydroceramidoids/LCMS approach to study its activity” Poster Presentation at the 9th Gordon Research Conference on Glycolipid & Sphingolipid Biology, 2006 January 8-13 Ventura, CA

Kraveka JM, Li L, Szulc ZM, Parikh NG, Bielawski J, Hannun YA, Obeid LM, Ogretmen B, Bielawska A
“Study on the Human Dihydroceramide Desaturase Enzyme” Poster Presentation at the 40th Southeastern Regional Lipid Conference 2005 November 2-4 Cashiers, NC

Li L, Kitatani K, Novgorodov SA, Bielawski J, Jin J, Bielawska A, Szulc ZM, , Hannun YA, Obeid LM, **Kraveka JM** “Localization of the Human Dihydroceramide Desaturase Protein” Poster Presentation at the 40th Southeastern Regional Lipid Conference 2005 November 2-4 Cashiers, NC

Kraveka JM, Li L, Szulc ZM, Bielawski J, Hannun YA, Obeid LM, Ogretmen B, Bielawska A
“Study on the Human Dihydroceramide Desaturase Enzyme: Use of siRNA and dihydroceramidoids/LCMS approach to study its activity” Oral Presentation at the 3rd International Charleston Ceramide Conference, 2005 March 2-6 Charleston, SC

Kraveka JM, Li L, Bielawski J, Obeid LM, Ogretmen B “Role of Endogenous Ceramide in the Inhibition of Telomerase Activity, MYCN activity, and Induction of Morphologic Differentiation in Response to All-Trans-Retinoic Acid in Human Neuroblastoma Cells” Poster presentation at the Advances in Neuroblastoma Research Meeting, 2004 June 16-19 Genoa, Italy.

Extramural Professional Activities:

2000 - present Children’s Oncology Group: Non-Hodgkin’s Lymphoma Committee,
Anaplastic Large Cell Lymphoma Study Committee

2002 - present Children’s Oncology Group: Member Neuroblastoma Developmental
Therapeutics Committee

- 2002 - present Children's Oncology Group: Study Chair/Principal Investigator: ANHL0131: A Phase III Trial of Treatment of Advanced-Stage Anaplastic Large Cell Lymphoma (ALCL) with Standard APO (Doxorubicin, Prednisone, Vincristine) versus Consolidation with a Regimen Including Vinblastine
- 2004- present 13-cis-retinoic acid pharmacokinetics and pharmacogenomics. This project in collaboration with Dr. C. Pat Reynolds (Children's Hospital of Los Angeles) and Dr. Gareth Veal (United Kingdom Children's Cancer Study Group) to study differences in inter-patient pharmacokinetics has been incorporated into the phase III clinical trial for patients with high-risk neuroblastoma.
- 2005 – present Children's Oncology Group: Study Committee Member, ANBL0532: A Phase III Randomized Trial of Single versus Tandem Myeloablative Consolidation Therapy for High-Risk Neuroblastoma
- 2006 - present Children's Oncology Group: Institutional Principal Investigator

Community Service:

- 2005 –2007 Vice-President, Board of Directors, Redeemer Children's Center and Preschool

Publications:

Peer Reviewed Journal Articles:

- 1) Chen S, Kazim D, **Kraveka J**, Pollack, RE. "Skin fibroblasts from individuals hemizygous for the familial adenopolyposis susceptibility gene show delayed crisis in vitro." *Proceedings of the National Academy of Sciences*. 1989; 86(6): 2008-2012.
- 2) Ogretmen B, Schady D, Usta J, Wood R, **Kraveka JM**, Luberto C Birbes H, Hannun YA, Obeid LM. "Role of ceramide in mediating the inhibition of telomerase activity in A549 human lung adenocarcinoma cells." *J Biol Chem*. 2001; 276(27): 24901-24910.
- 3) Ogretmen B, **Kraveka JM**, Schady D, Usta J, Hannun YA, Obeid LM. "Molecular mechanisms of ceramide-mediated telomerase inhibition in the A549 human lung adenocarcinoma cell line." *J Biol Chem*. 2001; 276(35): 32506-14.
- 4) **Kraveka JM**, Schady D, Obeid LM, Ogretmen B. "Immunoprecipitation of human telomerase reverse transcriptase with telomerase activity". *Anal Biochem*. 2001; 291(1): 166-9.
- 5) **Kraveka JM**, Li L, Bielawski J, Obeid LM, Ogretmen B, "Involvement of Endogenous Ceramide in the Inhibition of Telomerase Activity, and Induction of Morphologic Differentiation in Response to All-Trans-Retinoic Acid in Human Neuroblastoma Cells." *Arch Biochem Biophys*. 2003; 419 (2):110-9.
- 6) Sultan I, **Kraveka JM**, Lazarchick J "CD19 negative precursor B Infantile Acute Lymphoblastic Leukemia presenting with Hypercalcemia" *Pediatr Blood Cancer*. 2004; 43(1):66-9.
- 7) Laver JH, **Kraveka JM**, Hutchison RE, Chang M, Kepner J, Schwenn M, Tarbell N, Desai S, Weitzman S, Weinstein HJ, Murphy SB. "Advanced-Stage Large-Cell Lymphoma in Children and Adolescents: Results of a Randomized Trial Incorporating Intermediate-Dose Methotrexate and High-Dose Cytarabine in the Maintenance Phase of the APO Regimen: A Pediatric Oncology Group Phase III Trial" *J Clin Oncol*. 2005; 23(3):541-7.
- 8) **Kraveka JM**, Li L, Szulc ZM, Bielawski J, Ogretmen B, Hannun YA, Obeid LM, Bielawski A. "Involvement of the Dihydroceramide Desaturase in Cell Cycle Progression in Human Neuroblastoma Cells" *J Biol Chem*. 2007 Feb 5; [Epub ahead of print]

Non- Peer Reviewed: (Review Article)

1. Luberto C, **Kraveka JM**, Hannun YA. "Ceramide regulation of apoptosis versus differentiation: a walk on a fine line. Lessons from neurobiology." *Neurochem Res*. 2002; 27(7-8): 609-17

Scholarly Books and Monographs:

1. **Kraveka, J** (ed). *CSCP Peripheral Brain 1992* (a clinical handbook distributed to all osteopathic medical students, published by the Council for Student Council Presidents (CSCP) via a grant from the Upjohn Company)

Chapters in Scholarly Books and Monographs:

1. **Kraveka JM**, Hannun YA "Bioactive Sphingolipids: An Overview on Ceramide, Ceramide 1-phosphate Dihydroceramide, Sphingosine, Sphingosine 1-phosphate" in volume 8 (Neural Lipids) of *The Handbook of Neurochemistry and Molecular Neurobiology* (3rd ed) Tettamanti, G and Goracci G (Eds.) in press

Other Publications: (Scientific Proceedings)

1. **Kraveka J**, Ogretmen B, Barredo JC, Safa AR. "Association of Telomerase Activity in Drug Resistance in HL-60 and its Multidrug Resistant Derivatives HL-60/ADR and HL-60/VCR Cells." *Proceedings of the American Association for Cancer Research*. 2864a, 2000.
2. **Kraveka J**, Russo DA, Petryk A, August CS. "Analysis of p53 expression and telomerase activity in pediatric specimens." *Blood*. 88:3309a, 1996.
3. Russo DA, Alamo AL, Zusman AS, Bash JA, **Kraveka J**, August CS. "Effect of recombinant cytokines on the phenotype of a novel human cell line with lymphoid and myeloid features." *Blood*. 88:3212a, 1996.
4. Cusano G, Russo DA, Bash JA, **Kraveka J**, August CS. "Monoclonal antibodies to the cell surface of MCRI-39 mark this human lymphoid/myeloid cell line but not human peripheral blood mononuclear cells." *Cell Transplantation*. 5:3.14a, 1996.
5. Petryk A, Russo DA, **Kraveka J**, August CS. "Telomerase activity and phenotypic characterization of bone marrow harvested after chemotherapy." *Cell Transplantation*. 5:3.15a, 1996.