

## CURRICULUM VITAE

### I. PERSONAL DATA

**Name:** Fatih M. Uckun

**Birthdate:** June 12, 1958

**Place of Birth:** Istanbul

**Nationality:** U.S. Citizen (Naturalized)

**Social Security Number:**

**Minnesota Board of Medical Practice,  
Medicine and Surgery License Number:** 36852

**Present Address:** Wayne Hughes Institute  
2665 Long Lake Road  
St. Paul, MN 55113

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**Field of Specialization:** Research: Immunobiology, Signal Transduction, Experimental Therapeutics, Cancer Research, AIDS Research. Clinical: Pediatrics, Pediatric Hematology/Oncology/Bone Marrow Transplantation, Biotherapy

### II. EDUCATION

Abitur, German College of Science, Istanbul, 1977 (honors)

M.D., University Heidelberg Medical School, 1983 (honors)

Dissertation in Experimental Medicine, University of Heidelberg Medical School, 1983

Specialty Training in Pediatrics Residency Program, University of Minnesota, 1986 - 1990.

Subspecialty Training in Pediatric Hematology-Oncology Fellowship Program, University of Minnesota, 1990 - 1992.

### III. PROFESSIONAL EXPERIENCE AND APPOINTMENTS

**1978-1982** Trainee in Experimental Hematology and Immunology, Department of Medicine, Section of Hematology, University of Istanbul, Chairman: Professor Dr. M. Aksoy. **Field of Research:** Cellular Immunology, Tumor Immunology, Cell Cloning, Production of Monoclonal Antibodies.

**1981-1983** Dissertation in Experimental Medicine, Department of Medicine, University of Heidelberg, Chairman: Professor Dr. h.c.mult. G. Schettler.

**1982-1984** Research Associate in Adult Bone Marrow Transplantation Program, Tumor Center Heidelberg, University of Heidelberg Hospital, Chairman: Professor Dr. W.

Hunstein. **Field of Research:** Tumor Immunology, Leukemia Biology, Transplantation Biology.

**1982-1984** Internal Medicine Resident, University of Heidelberg, Germany.

**1986-1990** Pediatric Resident, University of Minnesota.

**1990-1992** Pediatric Hematology-Oncology-BMT Fellow, University of Minnesota.

**1984-1986** Postdoctoral Associate in Pediatric Bone Marrow Transplantation Program, University of Minnesota, Director of Program: Professor J. H. Kersey; Supervisor: Professor D.A. Vallera. **Field of Research:** Tumor Immunology, Leukemic Biology, Transplantation Biology, Immunoconjugates.

**1986-1990** Assistant Professor. Departments of Therapeutic Radiology - Radiation Oncology and the Pediatric Bone Marrow Transplantation Program, University of Minnesota, Chairman: Professor S. H. Levitt. **Field of Research:** Tumor Immunology, Leukemia Biology, Growth Factors, Immunotoxins, Radiobiology.

**1987-1997** Member, University of Minnesota Graduate School Faculty

**1990-1993** Director, Section of Cancer and Leukemia Biology, Department of Therapeutic Radiology-Radiation Oncology.

**1990-1993** Associate Professor (with tenure). Departments of Therapeutic Radiology - Radiation Oncology and the Pediatric Bone Marrow Transplantation Program, University of Minnesota, Chairman: Professor S. H. Levitt. **Field of Research:** Tumor Immunology, Leukemia Biology, Growth Factors, Immunotoxins, Radiobiology, AIDS.

**1992-1993** Associate Professor of Pharmacology (joint appointment), University of Minnesota, Chairman : Professor Horace Loh.

**1992-1997** Attending Physician, Departments of Therapeutic Radiology-Radiation Oncology and Pediatrics, University of Minnesota.

**1992-1997** Director, Children's Cancer Group ALL Biology Reference Laboratory at the University of Minnesota.

**1992-1997** Director, Children's Cancer Group Centralized Immunotoxin Resource Laboratory at the University of Minnesota.

**1993-1997** Full Professor, Departments of Therapeutic Radiology-Radiation Oncology (with tenure), Pediatrics, and Pharmacology, University of Minnesota.

**1993-1997** Director and Attending Physician, Biotherapy Program.

**1994-1996** Attending Physician, Pediatric Bone Marrow Transplantation Program, University of Minnesota.

**1993-present** Member, New Agents Committee of the Children's Cancer Group.

**1993-present** Member of the ALL Strategy Group, ALL Steering Committee, New Agents Steering Committee, Biology Research Steering Committee of the Children's Cancer Group.

**1995-1997** Director, Biotherapy Institute, University of Minnesota Academic Health Center.

**1996-present** Senior Scientist, National Childhood Cancer Foundation, Inc.

**1996-present** Director, Biotherapy Program of Children's Cancer Group.

**1997-present** Director, ALL Biology Reference Lab, Wayne Hughes Institute, St. Paul, Minnesota.

**1997-present** President and Director, Wayne Hughes Institute, St. Paul, Minnesota.

#### **IV. HONORS AND SPECIAL RECOGNITION**

Deutscher Akademischer Austauschdienst Scholar as Medical Student at the University of Heidelberg, 1977-1983.

Dissertation, University of Heidelberg, summa cum laude, 1983.

Outstanding Graduate, University of Heidelberg Medical School, 1983

Recipient of a Training Award from Tumor Center Heidelberg, 1983

Young Investigator Award, Turkish National Academy of Basic Sciences (TUBITAK), 1985.

Outstanding Representative of the Nation Award, Turkish Foreign Ministry, 1985

New Investigator Award, NIH, 1986.

Leukemia Society of America Special Fellowship Award, 1986.

Sedat Simavi Foundation, Outstanding Scientist Award, 1986.

Medal for Distinction in Medical Sciences, Turkish Military Medical Academy, 1987

NATO Research Award, 1989.

Leukemia Society of America Scholar Award, 1989.

Stohlman Scholar Award of the Leukemia Society of America, 1992.

The Third Pierce Immunotoxin Award, 1992.

Research Award of the Radiation Research Society, 1994.

Science Award of TUBITAK, the Turkish National Academy of Basic Sciences, 1995.

Outstanding Achievement in the Sciences Award of the Assembly of Turkish-American Associations, 1995.

Election to American Society for Clinical Investigation, 1996.

The first holder of the "Hughes Chair in Biotherapy", University of Minnesota Academic Health Center, 1996.

The first holder of the "Hughes Chair in Oncology", Wayne Hughes Institute, 1997.

## V. RESEARCH SUPPORT

### Current Federal Support:

1. **NIH-R01-ES-07175.** "Protein Tyrosine Kinases and Electromagnetic Fields". 7/1/95-6/30/98. Fatih M. Uckun, Principal Investigator.
2. **NIH U01-CA-72157.** "Cancer Therapy with Biotherapeutics Containing Genistein". 8/1/96 - 7/31/01. . Fatih M. Uckun, Principal Investigator.
3. **DOD-RP951361.** "Biotherapy of Breast Cancer with EGF-Genistein". 12/1/95 - 11/30/99. Fatih M. Uckun, Principal Investigator.
4. **NIH-CCG Chairman's Grant CA-13539.** "ALL Biology Reference Laboratory Investigations". 12/1/93-11/30/99. Fatih M. Uckun, Principal Investigator.
5. **NIH-CCG Chairman's Grant CA-13539.** " Immunotoxin Therapy of Relapsed ALL". 12/1/93-11/30/99. Fatih M. Uckun, Principal Investigator.

### Other Grant Support:

1. **Parker Hughes Trust -Grant #1.** "Biotherapy of Childhood Leukemia". 8/1/96 - 7/31/98. Fatih M. Uckun, Principal Investigator.
2. **Parker Hughes Trust -Grant #2.** "Cell Type Specific Radiation Sensitizers". 8/1/96 - 7/31/98. Fatih M. Uckun, Principal Investigator.
3. **Parker Hughes Trust -Grant #3.** "Recombinant Pokeweed Antiviral Protein in Cancer Therapy". 8/1/96 - 7/31/98. Fatih M. Uckun, Principal Investigator.

## VI. PATENTS

**United States Patent:** "EGF Genistein Conjugates for the Treatment of Cancer."  
Inventor: Fatih M. Uckun. Filing date: February 26, 1998.

**United States Patent Application Serial No. Pending.** "Vanadium (IV) Metallocene Complexes Having Spermicidal Activity." Inventors: Fatih M. Uckun, Osmond J. D'Cruz and Phalguni Ghosh. M&G: 12152.9-US-01. Filed: January 20, 1998.

**United States Patent Application Serial No. Pending.** "Novel Intermediates for Annonaceous Acetogenins." Inventors: Fatih M. Uckun and Keqiang Li. M&G: 12152.10-US-01. Filed: January 20, 1998.

**United States Patent Application Serial No. Pending.** "TXU-7-PAP Immunotoxin for the Treatment of Cancer and AIDS." Inventor: Fatih M. Uckun. Docket: 600.428US1. Filed: January 27, 1998.

**United States Patent:** "Biotherapy of Cancer by Targeting TP-3/P80." Inventors: Fatih M. Uckun and Peter Anderson. Patent Number: 5,690,935. Date of Patent: November 25, 1997.

**United States Provisional Patent Application Serial No. 60/056,569.** "Modulation of Cell Response to Radiation." Inventor: Fatih M. Uckun. M&G: 600.356-US-P1. Filed: August 21, 1997.

**International Application No. PCT/US97/00476.** "Immunoconjugate for the Treatment of AIDS." Inventor: Fatih M. Uckun. Filed: January 10, 1997.

**United States Patent Application Serial No. 08/584,966.** "TXU-5/B53-PAP Antiviral Biotherapeutic Agent for the Treatment of AIDS." Inventor: Fatih M. Uckun. Docket: 600.351US1. Pending.

**European Patent Application No. 96 916 466.4.** "Immunoconjugates Comprising Single-Chain Variable Region Fragments of Anti-CD-19 Antibodies." Inventors: Fatih M. Uckun, John H Kersey, Jr., Bruce E. Bejcek, Duo Wang. M&G: 600.354-EP-WO. Filed: May 15, 1996.

**European Patent:** "Pokeweed Antiviral Protein - Monoclonal Antibody Conjugates." Inventors: Fatih M. Uckun, Joyce Mintzer Zarling. International publications number: WO 91/01145 (07.02.1991 Gazette 1991/04). Date of Patent: May 1, 1996.

**United States Patent Application Serial No. 08/517,282.** "Combination Immunotoxin/Antineoplastic Agent Therapy of B-Lineage Cancer." Inventor: Fatih M. Uckun. M&G: 600.324-US-01. Filed: August 21, 1995.

**United States Patent:** "Monoclonal Antibody Specific for Human B-Cells." Inventor: Fatih M. Uckun, Patent Number: 4,831,117. Date of Patent: May 16, 1989

**Greek Patent Application No. 900100550.** "A method for inhibiting virus replication in mammalian cells using pokeweed antiviral protein-monooclonal antibody conjugates". Inventor: Fatih M. Uckun. Greek Patent No. 1,002,180.

**United States Patent Application Serial Number 08/293,731.** "Immunoconjugates Comprising Tyrosine Kinase Inhibitors". Inventor: Fatih M. Uckun. Docket: 600.298US1. Date of Patent: December 24, 1996.

**United States Patent Application Serial Number 08/909,976.** "Biotherapy of Cancer by Targeting TP-3/p80". Inventors: Fatih M. Uckun and Peter Anderson. Patent Number: 5,690,935. Date of Patent: November 25, 1997.

**United States Patent Application Serial Number pending** "Biotherapeutic agents comprising recombinant PAP and PAP mutants". Inventor: Fatih M. Uckun and Nilgun Tumer. Docket: 600.337US01. Filed in July 11, 1995.

**United States Patent Application Serial Number 08/602,186.** "EGF-Genistein conjugates for the treatment of cancer". Inventor: Fatih M. Uckun. Docket: 600.319US11. Filed in February, 1997. PCT Patent Application No. PCT/US97/02325.

## **VII. PARTICIPATION IN NATIONAL ACADEMIC REVIEW BODIES**

Regular Member of Radiation Study Section, National Cancer Institute, 1991-1995.

Member, Special Advisory Committee on Immunology, American Cancer Society, 1994-present.

Translational Research Review Subcommittee for the Leukemia Society of America 1995-1996.

Member of the National Institutes of Health reviewers Reserve (NRR) 1995-1999. Participated in the Program Project/Cancer Center site visits to Dana Farber Cancer Institute, City of Hope Cancer Center, Georgetown University, Phase I Clinical Trials/U01 Grants Review Committee/NCI.

Tumor Immunologic Science Subcommittee of the American Society for Bone Marrow Transplantation (ASBMT), 1995.

Member, Childhood Leukemia Foundation Advisory Board, 1995-present.

Associate Editor, International Journal Radiation•Oncology•Biology•Physics, 1995-present.

Editor, Leukemia and Lymphoma, 1991 - present

Editorial Board Member, Blood, 1992 - 1997

Editorial Board Member, Experimental Hematology, 1992 - 1995

Editorial Board Member, Radiation Oncology Investigations, 1992-present

Ad Hoc Reviewer for the Journals: Nature, Science, Proc. Natl. Acad. Sci. USA , Blood, Cancer Research, Leukemia, Leukemia and Lymphoma, , Int. J. Radiat. Biol., Int. J. Cancer, Eur. J. Hematol., Bone Marrow Transplantation, Experimental Hematology, J. Immunology.

## **VIII. PROFESSIONAL MEMBERSHIPS**

Children's Cancer Group Very High Risk ALL Task Force 1997.

American Society for Clinical Investigation 1996 - present

Radiation Research Society membership committee 1996-1999.

Radiation Research Society (RRS) 1992 - present

American Society for Therapeutic Radiology and Oncology (ASTRO) 1990 - present

Transplantation Society 1986 - present

American Society of Hematology (ASH) 1989 - present

American Association for Cancer Research (AACR) 1989 - present

American Association for the Advancement of Science (AAAS) 1990 - present

International Society of Experimental Hematology (ISEH) 1986 - present

American Association of Immunologists (AAI) 1990 - present

## **IX. TEACHING ACTIVITIES**

### ***Postdoctoral Fellows/Graduate Students***

**1. Jizhong Jin** - Jin is a Ph.D. candidate in the Biophysical Sciences Graduate Program. He received his medical degree at Nanjin Medical College in China and began his studies under Dr. Uckun in 1993. He is currently studying the regulatory role of tyrosine phosphatases in lymphocyte precursors and childhood lymphomas.

**2. Zhiwen Yang** - Zhiwen is a Ph.D. candidate in the Biophysical Sciences Graduate Program. After receiving a master's degree in radiobiology from the Peking Cancer

Research Institute in China, she began her studies with Dr. Uckun in 1994. She is currently studying the role of tyrosine kinases in lymphocyte precursors and AT.

**3. Tamer Zeren** - Tamer is a Ph.D. candidate in the Biophysical Sciences Graduate Program. He finished his degree from Celal Bayar University in Ankara, Turkey and began his studies with Dr. Uckun in 1993. He is currently studying the efficacy of immunoconjugates containing genistein against breast and prostate cancer as well as childhood leukemias.

**4. Onur Ek** - Onur is a Ph.D. candidate in the Biophysical Sciences Graduate Program. He finished his degree from Adnan Menteres University in Ankara, Turkey and began his studies with Dr. Uckun in 1993. He is currently studying the efficacy of TP3-PAP immunotoxin against childhood bone cancer.

**5. Daiva Kristupaitis** - Daiva is a Ph.D. candidate in the Biophysical Sciences Graduate Program. She received her degree from Sriechkus Polytechnic Institute in Kaunas, Lithuania and began her studies with Dr. Uckun in 1995. She is currently studying the potential role of electromagnetic fields in the development of childhood leukemia.

**6. Pearse Ward** - Pearse is a Ph.D. candidate in the Biophysical Sciences Graduate Program. He received his B.S. from the University of British Columbia in 1984 and began his studies with Dr. Uckun in 1995. He is currently studying the survival mechanisms in childhood bone cancer cells.

**7. Lisa Engen** - Lisa is a Ph.D. candidate in the Biophysical Sciences Graduate Program. She will specialize on the biology of childhood brain tumors.

#### ***Postgraduate Trainees and Fellows:***

There are currently two postdoctoral fellows (Nian-Cherng Chia and Hoshnuwar Kerawalla) in Dr. Uckun's laboratory.

#### ***Previous Postgraduate Trainees and Fellows:***

##### **1. Postdoctoral Fellows**

<u>Name</u>	<u>Year of Training</u>	<u>Current Position</u>
Dorothea Myers, Ph.D.	1987 - 1993	Assistant Professor, U of MN until 1/96, now Vice President of a Pharmaceutical Company
Xiao Jun, M.D.	1991 - 1993	Assistant Professor, U of MN
Ilker Dibirdik, Ph.D.	1989 - 1992	Assistant Professor, U of MN
Vedat Obuz, M.D.	1989 - 1992	Medical Fellow Specialist, U of PA
Woo Sun Min, M.D.	1989 - 1991	Assoc. Professor, Catholic Univ. Medical School, Korea
Kevin Waddick, Ph.D.	1993 - 1995	Assistant Professor, U of MN
Yoav Messinger, M.D.	1994 - 1996	Assistant Professor, U of MN

##### **2. Ph.D. Students**

Kevin Waddick, M.S.	1988 - 1993	Assistant Professor, U of MN
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Heonjoo Park Chae, M.D.      1990 - 1993      Assistant Professor, Catholic Univ. Medical  
College, Korea

## **X. SERVICE CONTRIBUTIONS**

**1992-1997 - Attending Physician**, Department of Therapeutic Radiology-Radiation Oncology, University of Minnesota.

**1993-1997 - Attending Physician**, Biotherapy Service, University of Minnesota.

**1994-1996 - Attending Physician**, Bone Marrow Transplantation Program, University of Minnesota

## **XI. ROLE IN NATIONAL TRIALS**

Dr. Uckun has established a new clinical trials consortium known as the Parker Hughes Consortium. This Consortium included initially The University of Minnesota Hospital, Childrens Hospital Los Angeles, and the Children's National Medical Center in Washington, DC. Subsequently, Duke University Medical Center, Dana Farber Cancer Institute, Johns Hopkins Oncology Center, Memorial Sloan Kettering Cancer Center and 5 other academic institutions have become active participants. This group represents the coming together of leading regional medical centers to offer new therapies and new hope in the treatment of childhood cancers. Funding has been obtained from federal and private sources to initiate clinical trials with the most promising new biotherapeutic agents.

The Parker Hughes Biotherapy Consortium will provide an efficient mechanism for testing the new biotherapy agents developed at the University of Minnesota for the first time in pediatric cancer patients. The interactions between the Parker-Hughes Biotherapy Consortium and the Phase I Consortium of the Children's Cancer Group provides a unique collaborative opportunity for the evaluation of novel agents in the treatment of refractory pediatric cancers, specifically, the development of combination therapies. These initial studies will make it possible to select the most promising and well tolerated of these agents for nationwide studies in the two cooperative pediatric cancer clinical trials groups, the Childrens Cancer Group (CCG) and the Pediatric Oncology Group (POG).

The ability to combine biotherapeutic agents, including immunotoxins with drugs with more conventional cytotoxic mechanisms of action will hopefully result in unique combination trials during the next year. In addition to potential novel combination trials, the development of trials evaluating alternative schedules or routes of administration will be considered as well.

Dr. Uckun plays a very active role in the leukemia-related efforts of the Children's Cancer Group, as reflected by his publications on behalf of the Children's Cancer Group, his funding from the National Childhood Cancer Foundation (i.e., the fund-raising arm of the Children's Cancer Group) and his previously listed leadership positions in the Children's Cancer Group.

Dr. Uckun is affiliated with the following protocols:

**PHBC-08**      "A Phase III Pretransplant B43-PAP Immunotoxin Therapy in Children with Poor Prognosis B-lineage Acute Lymphoblastic Leukemia Undergoing Bone Marrow Transplantation" (Last edition: 5/97)

- PHBC-09** "A Phase I Study of B43-Genestine Immunoconjugate in Recurrent B-lineage Acute Lymphoblastic Leukemia and Non-Hodgkin's Lymphoma" (Last edition: 4/97)
- PHBC-11** "A Phase I Study of B43-Genestine Immunoconjugate in Recurrent B-lineage Acute Lymphoblastic Leukemia and Non-Hodgkin's Lymphoma" (Hurvitz 3 days) (Last edition: 10/97)
- PHBC-12** "Phase I Study of Extended Maintenance Treatment of Therapy Refractory Acute Lymphoblastic Leukemia with anti CD-19 Immunotoxin Containing Pokeweed Anti-viral Protein (B43-PAP)" (Last edition: 8/97)
- PHBC-13** "Anti-CD7 Pokeweed Anti-viral Protein (PAP) in the Treatment of Patients with HIV Infection: A Phase I Study" (Last edition 6/5/97)
- PHBC-14** "Treatment of Recurrent CD7 Antigen Positive Leukemia with TXU (anti-CD7)-Pokeweed Anti-viral Protein (PAP) Immunotoxin" (Last edition: 5/97)

## **XII. PUBLICATIONS**

### **Research Reports In Press and Published in Refereed Scientific Journals (Abstracts not included):**

**Uckun FM**, Herman-Hatten K, Crotty ML, Sensel MG, Sather HN, Tuel-Ahlgren L, Sarquis MB, Bostrom B, Nachman JB, Steinherz PG, Gaynon PS, Heerema N. Clinical Significance of MLL-AF4 Fusion Transcript Expression in the Absence of a Cytogenetically Detectable t(4;11)(q21;q23) Chromosomal Translocation. *Blood*, in press, 1998.

Ek O, Yanishevski Y, Waurzyniak B, Myers DE, Evans W, **Uckun FM**. Antitumor Activity of TP3(anti-p80)-PAP Immunotoxin in Hamster Cheek Pouch and SCID Mouse Xenograft Models of Human Osteosarcoma. *Clinical Cancer Research*, in press, 1998.

**Uckun FM**, Nachman JB, Sather HN, Sensel MG, Theil K, Kraft P, Steinherz PG, Lange B, Hutchinson R, Reaman GH, Gaynon PS, Heerema NA. Clinical Significance of Philadelphia Chromosome-Positive Pediatric Acute Lymphoblastic Leukemia in the Context of Contemporary Intensive Therapies: A Report from the Children's Cancer Group. *Cancer*, in press, 1998.

Vig R, Mao C, Venkatachalam TK, Tuel-Ahlgren L, Sudbeck EA, **Uckun FM**. Rational Design and Synthesis of Phenethyl-5-bromopyridyl Thiourea Derivatives as Potent Non-Nucleoside Inhibitors of HIV Reverse Transcriptase. *Bioorganic & Medicinal Chemistry*, in press, 1998.

Narla RK, Liu XP, Myers DE, **Uckun FM**. 4-(3'-Bromo-4' hydroxyphenyl)-amino-6,7-dimethoxyquinazoline (WHI-P154): A novel quinazoline derivative with potent cytotoxic activity against human glioblastoma cells. *Clinical Cancer Research*, in press, 1998.

Williams MD, Rostovtsev A, Narla RK, **Uckun FM**. Production of Recombinant DT<sub>1</sub> GMCSF Fusion Toxin in a Baculovirus Expression Vector System for Biotherapy of GMCSF-Receptor Positive Hematologic Malignancies. *Protein Expression and Purification*, in press, 1998.

Vig R, Mao C, Venkatachalam TK, Tuel-Ahlgren L, Sudbeck EA, **Uckun FM**. 5-Alkyl-2-[(methylthiomethyl)thio]-6-(benzyl)-pyridinidin-4-(1H)-Ones as Potent Non-Nucleoside

Reverse Transcriptase Inhibitors of S-DABO Series. *Bioorganic & Medicinal Chemistry Letters*, in press, 1998.

Waurzyniak BJ, Heerema N, Sensel MG, Gaynon PS, Kraft P, Sather HN, Chelstrom L, Reaman GH, **Uckun FM**. Distinct In Vivo Engraftment and Growth Patterns of  $t(1;19)^+/E2A-PBX1^+$  and  $t(9;22)^+/BCR-ABL^+$  Human Leukemia Cells in SCID Mice. *Leukemia and Lymphoma*, in press, 1998.

Goodman PA, Niehoff LB, **Uckun FM**. Role of Tyrosine Kinases in Induction of *C-Jun* Protooncogene in Irradiated B-lineage Lymphoid Cells. *J. of Biol. Chem.*, in press, 1998.

Witthuhn BA, Williams MD, Kerawalla H, **Uckun FM**. Differential Substrate Recognition Capabilities of Janus Family Protein Tyrosine Kinases Within the Interleukin 2 Receptor (IL2R) System: JAK3 as a Potential Molecular Target for Treatment of Leukemias with a Hyperactive JAK-STAT Signaling Machinery. *Leukemia and Lymphoma*, in press, 1998.

Reaman GH, Sposto R, Sensel MG, Lange BJ, Feusner J, Heerema NA, Leonard M, Holmes E, Sather HN, Pendergrass T, Johnstone H, O'Brien R, Steinherz P, Zeltzer P, Gaynon P, Trigg M, **Uckun FM**. Treatment Outcome and Prognostic Factors for Infants with Acute Lymphoblastic Leukemia Treated on Consecutive Trials of the Children's Cancer Group. *Journal of Clinical Oncology*, in press, 1998.

D'Cruz OJ, Ghosh P, **Uckun, FM**. Spermicidal Activity of Chelate Complexes of Bis (cyclopentadienyl) Vanadium (IV). *Molecular Human Reproduction*, in press, 1998.

Vig R, Mao C, Sudbeck EA, Zhu Z, Venkatachalam TK and **Uckun FM**. Structure-Based Design and Synthesis of Analogues of 1-[2-Hydroxyethoxy)Methyl]-6-(Phenylthio)Thymine (HEPT) as Nonnucleoside Inhibitors of Human Immunodeficiency Virus (HIV) Reverse Transcriptase. *Journal of Medicinal Chemistry*, in press, 1998.

D'Cruz OJ, Venkatachalam TK, Zhu Z, Shih M, **Uckun FM**. Bromo-Methoxy and Aryl Phosphate Derivatives of Azidothymidine are Dual Function Spermicides with Potent anti-HIV Activity. *Biology of Reproduction*, in press, 1998.

Nachman JB, Sather HN, Sensel MG, Trigg ME, Cherlow JM, Lukens JN, Wolff L, **Uckun FM**, and Gaynon PS. Improved Outcome with Augmented Post-Induction Therapy for Children With High Risk Acute Lymphoblastic Leukemia Who Show a Slow Early Response to Induction Therapy: A Children's Cancer Group Study. *New England Journal of Medicine*, in press, 1998.

**Uckun FM**, Waurzyniak BJ, Sather HN, Sensel MG, Chelstrom L, Nachman J, Gaynon PS, Bostrom B, Ek O, Sarquis M, Steinherz PG, Reaman GH. Prognostic Significance of T-Lineage Leukemic Cell Growth in SCID Mice: A Children's Cancer Group Study. *Leukemia and Lymphoma*, in press, 1998.

Waddick KG, **Uckun FM**. Innovative Treatment Programs Against Cancer: NF-kB As A Molecular Target. *Biochemical Pharmacology*, in press, 1998.

Waddick KG, **Uckun FM**. Innovative Treatment Programs Against Cancer: RAS Oncoprotein As A Molecular Target. *Biochemical Pharmacology*, in press, 1998.

D'Cruz O, Ghosh P and **Uckun FM**. Spermicidal Activity of Metallocene Complexes Containing Vanadium (IV)<sup>1</sup>. *Biology of Reproduction*, in press, 1998.

**Uckun FM**. Bruton's Tyrosine Kinase (BTK) as a Dual-Function Regulator of Apoptosis (Commentary). *Biochemical Pharmacology*, in press, 1998.

**Uckun FM**, Narla R, Zeren T, Yanishevski Y, Myers DE, Waurzyniak B, Ek O, Schneider E, Messinger Y, Chelstrom LM, Gunther R, Evans W. In Vivo Toxicity, Pharmacokinetics, and Anti-Cancer Activity of Genistein Conjugated to Human Epidermal Growth Factor. *Clinical Cancer Research*, in press, 1998.

Heerema NA, Sather HN, Sensel MG, Kraft P, Nachman JB, Steinherz PG, Lange BJ, Hutchinson RS, Reaman GH, Trigg ME, Arthur DC, Gaynon PS, and **Uckun FM**. Frequency and Clinical Significance of Cytogenetic Abnormalities in Pediatric T-Lineage Acute Lymphoblastic Leukemia: A Report from the Children's Cancer Group. *Journal of Clinical Oncology*, in press, 1998.

Ek O, Yanishevski Y, Zeren T, Waurzyniak B, Gunther R, Chelstrom L, Chandan-Langlie M, Schneider E, Myers DE, Evans W, **Uckun FM**. In Vivo Toxicity and Pharmacokinetic Features of B43(Anti-CD19)-Genistein Immunoconjugate. *Leukemia and Lymphoma*, in press, 1998.

Ek O, Gaynon P, Zeren T, Chelstrom L, **Uckun FM**. Treatment of human B-cell precursor leukemia in SCID mice by using a combination of the anti-CD19 immunotoxin B43-PAP with the standard chemotherapeutic drugs vincristine, methylprednisolone, and L-asparaginase. *Leukemia and Lymphoma*, in press, 1998.

**Uckun FM**, Sather HN, Waurzyniak BJ, Sensel MG, Chelstrom L, Ek O, Sarquis M, Nachman J, Bostrom B, Reaman GH, Gaynon PS. Prognostic Significance of B-Lineage Leukemic Cell Growth in SCID Mice: A Children's Cancer Group Study. *Leukemia and Lymphoma*, in press, 1998.

**Uckun FM**, Waurzyniak B, Sensel MG, Chelstrom L, Crotty M-L, Gaynon P, Reaman G. Primary Blasts from Infants with Acute Lymphoblastic Leukemia Cause Overt Leukemia in SCID Mice. *Leukemia and Lymphoma*, in press, 1998.

Myers DE, Sicheneder A, Clementson D, Dvorak N, Venkatachalam T, Rostovsev A, Chandan-Langlie M, **Uckun FM**. Large Scale Manufacturing of B43(Anti-CD19)-Genistein for Clinical Trials in Leukemia and Lymphoma. *Leukemia & Lymphoma*, in press, 1998.

Gaynon PS, Bostrom B, Reaman G, Sather H, Trigg ME, Tubergen DG, **Uckun FM**. Childrens Cancer Group (CCG) initiatives in childhood acute lymphoblastic leukemia (ALL). *International Journal of Pediatric Hematology/Oncology*, in press, 1998.

Trigg ME, Sather HN, Reaman GH, Tubergen DG, Steinherz PG, Gaynon PS, Neerhout RC, **Uckun FM**, Hammond GD. Overall Improvement in Outcome of Children With Acute Lymphoblastic Leukemia: Report From the Children's Cancer Group on the 100-Series From 1983-1989. *Cancer*, in press, 1998.

Ek O, Reaman GH, Crankshaw DL, Chelstrom LM, Myers DE, **Uckun FM**. Combined Therapeutic Efficacy of the Thymidylate Synthase Inhibitor ZD1694 (Tomudex) and the Immunotoxin B43(Anti-CD19)-PAP in a SCID Mouse Model of Human B-Lineage Acute Lymphoblastic Leukemia. *Leukemia & Lymphoma*, 28:509-514, 1998.

**Uckun FM**, Jun X, Narla RK, Zeren T, Venkatachalam T, Waddick K, Rostostev A, Myers DE. Cytotoxic Activity of EGF-Genistein Against Human Breast Cancer Cells. *Clinical Cancer Research*, 4:901-912, 1998.

Kristupaitis D, Dibirdik I, Vassilev A, Mahajan S, Kurosaki T, Chu A, Tuel-Ahlgren L, Tuong D, Pond D, Luben R, **Uckun FM**. Electromagnetic Field-Induced Stimulation of Bruton's Tyrosine Kinase (BTK). *The Journal of Biological Chemistry*, 273 (20): 12397-12401, 1998.

Li K, Vig S, **Uckun FM**. Stereocontrolled Synthesis of the Tetrahydrofuran Unit of Annonaceous Acetogenins. *Tetrahedron Letters*, 39(15), 2063-2066, 1998.

**Uckun FM**, Sensel MG, Sather HN, Gaynon PS, Arthur DC, Lange BJ, Steinherz PG, Kraft P, Hutchinson R, Nachman JB, Reaman GH, Heerema NA. Clinical Significance of Translocation t(1;19) in Childhood Acute Lymphoblastic Leukemia in the Context of Contemporary Therapies: A Report From The Children's Cancer Group. *J. Clin. Oncol.*, 16(2): 527-535, 1998.

Steinherz PG, Gaynon PS, Breneman JC, Cherlow JM, Grossman NJ, Kersey JH, Johnstone HS, Sather HN, Trigg ME, **Uckun FM**, Bleyer A. Treatment of patients with acute lymphoblastic leukemia with bulky extramedullary disease and T-cell phenotype or other poor prognostic features: Report from the Children's Cancer Group. *Cancer*, 82(3): 600-612, 1998.

**Uckun FM**, Sensel MG, Waddick KG, Steinherz PG, Trigg ME, Heerema NA, Sather HN, Reaman GH, Gaynon PS. Biology and Treatment of Childhood T-Lineage Acute Lymphoblastic Leukemia (Review Article). *Blood*, 91(3): 735-746, 1998.

Dibirdik I, Kristupaitis D, Kurosaki T, Tuel-Ahlgren L, Chu A, Pond D, Tuong D, Luben R, **Uckun FM**. Stimulation of Src Family Protein Tyrosine Kinases as a Proximal and Mandatory Step for Syk Kinase-Dependent Phospholipase C Gamma 2 Activation in Lymphoma B-cells Exposed to Low Energy Electromagnetic Fields. *J. of Biol. Chem.*, 273(7), 4035-4039, 1998.

**Uckun FM**, Chelstrom LM, Tuel-Ahlgren L, Dibirdik I, Irvin JD, Chandan-Langlie M, Myers DE. TXU(Anti-CD7)-Pokeweed Antiviral Protein as a Potent Inhibitor of Human Immunodeficiency Virus. *Antimicrobial Agents and Chemotherapy*, 42:383-388, 1998.

**Uckun FM**. Biology and Treatment of Childhood T-lineage Acute Lymphoblastic Leukemia (Review Article). *Blood* 91:735-746, 1998.

Messinger Y, Yanishevski Y, Ek O, Zeren T, Waurzyniak B, Gunther R, Chelstrom L, Chandan-Langlie M, Schneider E, Myers DE, Evans W, **Uckun FM**. *In Vivo* Toxicity and Pharmacokinetic Features of B43(Anti-CD19)-Genistein Immunoconjugate in Non-Human Primates. *Clin. Cancer Res.* 4:165-170, 1998.

Perentesis JP, Gunther R, Waurzyniak B, Yanishevski Y, Myers DE, Ek O, Messinger Y, Shao Y, Chelstrom LM, Schneider E, Evans WE, **Uckun FM**. *In Vivo* Biotherapy of HL-60 Myeloid Leukemia with a Genetically Engineered Recombinant Fusion Toxin Directed against the Human GMCSF Receptor. *Clinical Cancer Research* 3:2217-2227, 1997.

**Uckun FM**, Sather H, Steinherz PG, Gaynon P, Arthur D, Nachman J, Sensel M, Hutchinson R, Trigg M, Reaman G. Prognostic significance of the CD10<sup>+</sup>CD19<sup>+</sup>CD34<sup>+</sup> B-progenitor immunophenotype in children with Acute Lymphoblastic Leukemia: a report from the Children's Cancer Group. *Leukemia & Lymphoma* 27: 445-457, 1997.

Gaynon PS, Bostrom BC, Reaman GH, Sather HN, Trigg ME, Tubergen DG, **Uckun FM**. Mechanisms of treatment failure in childhood acute lymphoblastic leukemia: Childrens Cancer Group Initiatives. *Acute Leukemias VI* 6:611-628, 1997.

Gaynon PS, Desai A, Bostrom BC, Hutchinson R, Nachman JB, Reaman GH, Sather HN, Steinherz PG, Trigg ME, Tubergen DG, **Uckun FM**. Early response to therapy and outcome in childhood acute lymphoblastic leukemia. *Cancer*, 80:1717-1726, 1997.

Myers DE, Jun X, Clementson D, Donelson R, Sicheneder, A, Hoffman N, Bell K, Sarquis M, Langlie M, **Uckun FM**. Large scale manufacturing of TXU (anti-CD7)-

- pokeweed antiviral protein (PAP) immunoconjugate for clinical trials. *Leukemia & Lymphoma*, 27:275-302, 1997.
- Wang D, Quanzhi L, Hudson W, Berven E, **Uckun F**, Kersey JH. Generation and Characterization of an Anti-CD19 Single-Chain Fv Immuntoxin Composed of C-Terminal Disulfide-Linked dgRTA. *Bioconjugate Chemistry*, 8(6):878-884, 1997.
- Zoubenko O, **Uckun FM**, Hur Y, Chet I, Tumer N. Plant resistance to fungal infection induced by nontoxic pokeweed antiviral protein mutants. *Nature Biotechnology*, 15:992-996, 1997.
- Gaynon P, Crotty ML, Sather H, Bostrom B, Nachman J, Steinherz P, Heerema N, Sarquis M, Tuel-Ahlgren L, **Uckun FM**. Expression of BCR-ABL, E2A-PBX1 and MLL-AF4 Fusion Transcripts in Newly Diagnosed Childhood Acute Lymphoblastic Leukemia: A Children's Cancer Group Initiative. *Leukemia & Lymphoma*, 26:57-65, 1997.
- Gruessner RW, **Uckun FM**, Pirenne J, Nakhleh RE, Benedetti E, Bekersky I, Troppman C, Gruessner AC. Recipient preconditioning and donor-specific bone marrow infusion in a pig model of total bowel transplantation. *Transplantation*, 63(1):12-20, 1997.
- Uckun FM**, Gaynon P, Sensel M, Nachman J, Trigg M, Steinherz P, Hutchinson R, Bostrom B, Lange B, Sather H, Reaman G. Clinical features and treatment outcome of childhood T-lineage acute lymphoblastic leukemia according to the apparent maturational stage of T-lineage leukemic blasts: A Children's Cancer Group Study. *J. Clin. Oncol.*, 15(6):2214-2221, 1997.
- Waddick KG, Chandan-Langlie M, **Uckun FM**. Differential Effects of Recombinant Human Granulocyte Colony-Stimulating Factor (rhG-CSF) on the Radiation Sensitivity of Normal Versus Leukemic Bone Marrow Progenitor Cell Populations. *Leukemia & Lymphoma*, 25:77-90, 1997.
- Waurzyniak B, Schneider EA, Tumer N, Yanishevski Y, Gunther R, Chelstrom LM, Wendorf H, Myers DE, Irvin JD, Messinger Y, Ek O, Zeren T, Chandan-Langlie M, Evans WE, **Uckun FM**. *In Vivo* Toxicity, Pharmacokinetics, and Antileukemic Activity of TXU (Anti-CD7)-Pokeweed Antiviral Protein Immunotoxin. *Clinical Cancer Research*, 3:881-890, 1997.
- Uckun FM**, Yang Z, Sather H, Steinherz P, Nachman J, Bostrom B, Crotty L, Sarquis M, Ek O, Zeren T, Tubergen D, Reaman G, Gaynon P. Cellular Expression of Anti-Apoptotic BCL-2 Oncoprotein In Newly Diagnosed Childhood Acute Lymphoblastic Leukemia: A Children's Cancer Group Study. *Blood*, 89:3769-3777, 1997.
- Uckun FM**, Sather H, Gaynon P, Arthur D, Trigg M, Tubergen D, Nachman J, Steinherz P, Sensel M, Reaman G. Clinical Features and Treatment Outcome of Children with Myeloid Antigen Positive Acute Lymphoblastic Leukemia: A Report From the Children's Cancer Group. *Blood*, 90(1):28-35, 1997.
- Perentesis JP, Bendel AE, Shao Y, Warman B, Davies SM, Yang CH, Chandan-Langlie M, Waddick KG, **Uckun FM**. Granulocyte-Macrophage Colony-Stimulating Factor Receptor-Targeted Therapy of Chemotherapy- and Radiation-Resistant Human Myeloid Leukemias. *Leukemia and Lymphoma*, 25:247-256, 1997.
- Bendel AE, Shao Y, Warman B, Yang CH, Waddick KG, **Uckun FM**, Perentesis JP. Specific Killing of Human Myeloid Leukemias by DT<sub>α</sub>GMCSF - A Recombinant Fusion Toxin Targeted to the Granulocyte-Macrophage Colony-Stimulating Factor Receptor. *Leukemia and Lymphoma*, 25:257-270, 1997.

**Uckun FM**, Gaynon P, Sather H, Arthur D, Trigg M, Tubergen D, Nachman J, Sensel MG, Reaman GR. Clinical Features and treatment Outcome of Children with Biphenotypic CD2<sup>+</sup>CD19<sup>+</sup> Acute Lymphoblastic Leukemia: A Children's Cancer Group Study. *Blood*, 89:2488-2493, 1997.

Perentesis JP, Waddick KG, Bendel A, Shao Y, Warman B, Chandan-Langlie M, **Uckun FM**. Induction of Apoptosis in Multidrug-Resistant and Radiation-Resistant Acute Myeloid Leukemia cells by a Recombinant Fusion Toxin Directed Against the Human Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) Receptor. *Clinical Cancer Research*, 3:347-355, 1997.

**Uckun FM**, Yanishevski Y, Waurzyniak B, Messinger Y, Chelstrom LM, Schneider EA, Ek O, Zeren T, Haissig S, Langlie M, Irvin JD, Myers DE, Evans W, Gunther R. Pharmacokinetic Features, Immunogenicity and Toxicity of B43(Anti-CD19)-Pokeweed Antiviral Protein Immunotoxin in Cynomolgus Monkeys. *Clinical Cancer Research*, 3:325-337, 1997.

Wang D, Berven E, Li Q, **Uckun FM**, Kersey JH. Optimization of Conditions for Formation and Analysis of Anti-CD19 FVS191 Single Chain Fv Homodimer (scFv')<sub>2</sub>. *Bioconjugate Chemistry*, 8:64-70, 1997.

Pirenne J, Gruessner AC, Benedetti E, Troppmann C, Nakhleh RE, **Uckun FM**, Gruessner RWG. Donor-specific unmodified bone marrow transfusion does not facilitate engraftment after intestinal transplantation in a porcine model. *Surgery*, 121(1):79-88, 1997.

Biaglow JE, Manevich Y, **Uckun F**, Held KD. Quantitation of Hydroxyl Radicals Produced by Radiation and Copper-Linked Oxidation of Ascorbate By 2-Deoxy-D-Ribose Method. *Free Radical Biology & Medicine*, 22(7):1129-1138, 1997.

Pirenne J, Moon C, Gruessner A, Benedetti E, Nakhleh RE, **Uckun FM**. Bone marrow augmentation of kidney allografts can cause graft-versus-host disease in immunosuppressed recipients. *Transplant Proceedings*, 28(2):941-2, 1996.

**Uckun FM**, Steinherz PG, Sather H, Trigg M, Arthur D, Tubergen D, Gaynon P, Reaman G. CD2 Antigen expression on Leukemic Cells as a Predictor of Event-Free survival After Chemotherapy for T-Lineage Acute Lymphoblastic Leukemia: A Children's Cancer Group Study. *Blood*, 88(11):4288-4295, 1996.

**Uckun FM**, Reaman G, Steinherz PG, Arthur DC, Sather H, Trigg M, Tubergen D, Gaynon P. Improved Clinical Outcome for Children with T-Lineage Acute Lymphoblastic Leukemia After Contemporary Chemotherapy: A Children's Cancer Group Study. *Leukemia & Lymphoma*, 24:57-70, 1996.

Nakhleh RE, Gruessner AC, Pirenne J, Benedetti E, Troppmann C, **Uckun FM**, Gruessner RWG. Rejection of the colon versus ileum in a pig model of total bowel transplantation. *Transplant Proceedings*, 28(5):2445-6, 1996.

Messinger Y, Yanishevski Y, Avramis VI, Ek O, Chelstrom LM, Gunther R, Myers DE, Irvin JD, Evans W, **Uckun FM**. Treatment of Human B-Cell Precursor Leukemia in SCID Mice Using a Combination of the Investigational Biotherapeutic Agent B43-PAP with Cytosine Arabinoside. *Clinical Cancer Research*. 2: 1533-1542, 1996.

**Uckun FM**, Waddick KG, Mahajan S, Jun X, Takata M, Bolen J, Kurosak T. BTK as a mediator of radiation-induced apoptosis in DT-40 lymphoma B cells. *Science*, 273:1096-1100, 1996.

Messinger Y, Chelstrom L, Gunther R, **Uckun FM**. Selective Homing of Human Leukemic B-Cell Precursors to Specific Lymphohematopoietic Microenvironments in SCID

Mice: A Role for the  $\beta$  1 Integrin Family Surface Adhesion Molecules VLA-4 and VLA-5. *Leukemia and Lymphoma* 23:61-69, 1996.

Xiao J, Biaglow JE, Chae-Park HJ, Jin J, Tuel-Ahlgren L, Myers DE, Burkhardt AL, Bolen JB, **Uckun FM**. Role of Hydroxyl Radicals in Radiation-Induced Activation of Lyn Tyrosine Kinase in Human B-Cell Precursors. *Leukemia and Lymphoma* 22:421-430, 1996.

Myers DE, Chandan-Langlie M, Chelstrom LM, **Uckun FM**. In vitro and in vivo anti-leukemic efficacy of cyclic AMP modulating agents against human leukemic B-cell precursors. *Leukemia and Lymphoma* 22:259-264, 1996.

Xiao J, Messenger Y, Jin J, Meyers DE, Bolen JB, **Uckun FM**. Signal Transduction Through the  $\beta$ 1 Integrin Family Surface Adhesion Molecules VLA-4 and VLA-5 of Human B-Cell Precursors Activates CD19 Receptor-Associated Protein-Tyrosine Kinases. *The Journal of Biological Chemistry*, 271 (13): 7659-7664, 1996.

**Uckun FM**. Severe Combined Immunodeficient Mouse Models of Human Leukemia (review). *Blood* 88(4):1135-1146, 1996.

Gunther, R, Chelstrom LM, Wendorf HR, Schneider EA, Covalciuc K, Johnson B, Clementson D, Irvin JD, Myers DE, **Uckun FM**. Toxicity profile of the investigational new biotherapeutic agent, B43 (anti-CD19)-pokeweed antiviral protein immunotoxin. *Leukemia and Lymphoma* 22:61-70, 1996.

Tuel-Ahlgren L, Jun X, Waddick KG, Jin J, Bolen J, **Uckun FM**. Role of tyrosine phosphorylation in radiation-induced cell cycle-arrest of leukemic B-cell precursors at the G2-M transition checkpoint. *Leukemia and Lymphoma* 20:417-426, 1996.

Smith M, Arthur D, Camitta B, Carroll AJ, Crist W, Gaynon P, Gelber R, Heerema N, Korn E, Link M, Murphy S, Pui C-H, Pullen J, Reaman G, Sallon SE, Sather H, Shuster J, Simon R, Trigg M, **Uckun F**, Ungerleider R. A uniform approach to risk-classification and treatment assignment for children with acute lymphoblastic leukemia (ALL). *Journal of Clinical Oncology* 14(1): 18-24, 1996.

**Uckun FM**, Tuel-Ahlgren L, Waddick KG, Jun X, Jin J, Myers DE, Rowley RB, Burkhardt AL, Bolen JB. Physical and functional interactions between Lyn and p34<sup>CDC2</sup> kinases in irradiated human B-cell precursors. *Journal of Biological Chemistry*, 271(11):6396-6397, 1996.

Biaglow JE, Held KD, Manevich Y, Tuttle S, Kachur A, **Uckun F**. Role of Guanosine Triphosphate in Ferric Ion-Linked Fenton Chemistry. *Radiation Research* 145:554-562, 1996.

**Uckun FM**, Evans WE, Forsyth CJ, Waddick KG, T-Ahlgren L, Chelstrom LM, Burkhardt A, Bolen J, Myers DE. Biotherapy of B-cell precursor leukemia by targeting genistein to CD19-associated tyrosine kinases. *Science* 267:886-891, 1995.

Myers DE, Jun X, Waddick KG, Forsyth C, Chelstrom LM, Gunther RL, Tumer NE, Bolen J, **Uckun FM**. Membrane-associated CD19-LYN complex is an endogenous p53-independent and bcl-2-independent regulator of apoptosis in human B-lineage lymphoma cells. *Proc Nat'l Acad Sci USA* 92: 9575-9579, 1995.

Hur Y, Hwang D-J, Zoubenko O, Coetzer C, **Uckun FM**, Tumer NE. Isolation and characterization of pokeweed antiviral protein mutations in *Saccharomyces cerevisiae*: identification of residues important for toxicity. *Proc Nat'l Acad Sci USA* 92: 8448-8452, 1995.

- Uckun FM**, Stewart CF, Reaman G, Chelstrom LM, Jin J, Chandan-Langlie M, Waddick KG, White J, Evans WE. In vitro and in vivo activity of topotecan against human B-lineage acute lymphoblastic leukemia cells. *Blood* 85:2817-2828, 1995.
- Gunther R, Chelstrom LM, Tuel-Ahlgren L, Simon J, Myers DE, **Uckun FM**. Biotherapy for xenografted human central nervous system leukemia in mice with severe combined immunodeficiency using B43 (anti-CD19)-pokeweed antiviral protein immunotoxin. *Blood* 85:2537-2545, 1995.
- Uckun FM**, Reaman GH. Immunotoxins for treatment of leukemia and lymphoma. *Leukemia and Lymphoma* 18:195-201, 1995.
- Waddick KG, Finnegan DM, Chelstrom LM, **Uckun FM**. In vivo radiosensitizing effects of recombinant interleukin 6 on radiation resistant BCL-1 B-lineage leukemia cells in a murine syngeneic bone marrow transplant model system. *Leukemia and Lymphoma* 19:121-128, 1995.
- Uckun FM**, Sather H, Reaman G, Shuster J, Land V, Trigg M, Gunther R, Chelstrom LM, Bleyer A, Gaynon P, Crist W. Leukemic cell growth in SCID mice as a predictor of relapse in high risk B-lineage acute lymphoblastic leukemia. *Blood* 85:873-878, 1995.
- Anderson PM, Meyers DE, Hasz DE, Covalcuic K, Saltzman D, Khanna C, **Uckun F**. In vitro and in vivo cytotoxicity of an anti-osteosarcoma immunotoxin containing pokeweed antiviral protein. *Cancer Research* 55:1321-1327, 1995.
- Bejcek BE, Wang D, Berven E, Pennell CA, Peiper SC, Poppema S, **Uckun FM**, Kersey JH. Development and characterization of three recombinant single chain antibody fragments (scFvs) directed against the CD19 antigen. *Cancer Research* 55:2346-2351, 1995.
- Myers DE, **Uckun FM**. An anti-CD72 immunotoxin against therapy-refractory B-lineage acute lymphoblastic leukemia. *Leukemia and Lymphoma* 18:119-122, 1995.
- Myers DE, Yanishevski Y, Masson E, Irvin JD, Evans WE, **Uckun FM**. Favorable pharmacodynamic features and superior anti-leukemic activity of B43(anti-CD19) immunotoxins containing two pokeweed antiviral protein molecules covalently linked to each monoclonal antibody molecule. *Leukemia and Lymphoma* 18: 93-102, 1995.
- Waddick KG, Myers DE, Gunther R, Chelstrom LM, Chandan-Langlie M, Irvin JD, Tumer N, **Uckun FM**. In vitro and in vivo anti-leukemic activity of B43-pokeweed antiviral protein against radiation-resistant human B-cell precursor leukemia cells. *Blood* 86:4228-4233, 1995.
- Uckun FM**, Kurosaki T, Jin J, Jun X, Morgan A, Takata M, Bolen J, Luben R. Exposure of B-lineage lymphoid cells to low energy electromagnetic fields stimulates lyn kinase. *J Biol Chem* 270:27666-27670, 1995.
- Smith CV, Sablinski T, Arn JS, Myers DE, Rosengard BR, **Uckun FM**, Sachs DH. In vivo treatment with monoclonal antibodies directed against CD4 and CD8 antigens in miniature swine. *Journal of Immunotherapy* 16:105-114, 1994.
- Song CW, **Uckun FM**, Levitt SH, Kim TH. Comments on "Radiation dose-fractionation and dose-rate relationships for long-term repopulating hemopoietic stem cells in a murine bone marrow transplant model" by R van Os, H Thames, AWT Konings and JD Down (*Radiat Res* 136:118-125, 1993). *Radiation Research* 137:414-416, 1994.
- Weisdorf DJ, Woods WG, Nesbit ME Jr, **Uckun FM**, Dusenbery K, Kim T, Haake R, Thomas W, Kersey JH, Ramsay NKC. Allogeneic bone marrow transplantation for acute

lymphoblastic leukaemia: risk factors and clinical outcome. *British Journal of Haematology* 86:62-69, 1994.

Chelstrom LM, Gunther R, Simon J, Raimondi SC, Krance R, Crist WM, **Uckun FM**. Childhood acute myeloid leukemia in mice with severe combined immunodeficiency. *Blood* 84:20-26, 1994.

**Uckun FM**, Downing JR, Chelstrom LM, Gunther R, Ryan M, Simon J, Carroll AJ, Tuel-Ahlgren L, Crist WM. Human t(4;11) (q21;q23) acute lymphoblastic leukemia in mice with severe combined immunodeficiency. *Blood* 84:859-865, 1994.

**Uckun FM**, Chandan-Langlie M, Dockham PA, Aeppli D, Sladek NE. Sensitivity of primary clonogenic blasts from acute lymphoblastic leukemia patients to an activated cyclophosphamide, viz., mafosfamide. *Leukemia and Lymphoma* 13:417-428, 1994.

Dibirdik I, Bingol NK, Kilinc C, Dibirdik LJ, Kurt I, Kutluay T, Karaca L, **Uckun FM**. Early B-cell precursors express functional receptors for human interleukin-7: Ligation of human interleukin-7 receptors with recombinant human interleukin-7 results in an increased proliferation index. *Doga-Tr. J of Medical Sciences* 18:127-134, 1993.

Waddick KG, Chae HP, Tuel-Ahlgren L, Jarvis LJ, Dibirdik I, Myers DE, **Uckun FM**. Engagement of the CD19 receptor on human B-lineage leukemia cells activates LCK tyrosine kinase and facilitates radiation-induced apoptosis. *Radiation Research* 136:313-319, 1993.

**Uckun FM**. Immunotoxins for the treatment of leukemia (Review). *Brit J Haematol* 85:435-438, 1993.

Dibirdik I, Kilinc C, Bingol NK, Dibirdik LJ, Kurt I, Kutluay T, Karaca L, **Uckun FM**. The ligation of interleukin-7 results in clonal proliferation by increasing the intracellular calcium concentration. *Doga-Tr. J of Medical Sciences* 18:91-101, 1993.

**Uckun FM**, Kersey JH, Haake R, Weisdorf D, Nesbit ME, Ramsay NKC. Pretransplantation burden of leukemic progenitor cells as a predictor of relapse after bone marrow transplantation for acute lymphoblastic leukemia. *New England Journal of Medicine* 329:1296-1301, 1993.

**Uckun FM**, Burkhardt AL, Jarvis L, Jun X, Stealey B, Dibirdik I, Myers DE, Tuel-Ahlgren L, Bolen JB. Signal transduction through the CD19 receptor during discrete developmental stages of human B-cell ontogeny. *Journal of Biological Chemistry* 268:21172-21184, 1993.

Schieven GL, Kirihaara JM, Myers DE, Ledbetter JA, **Uckun FM**. Reactive oxygen intermediates activate NF- $\kappa$ B in a tyrosine kinase-dependent mechanism and in combination with vanadate activate the 56<sup>lck</sup> and p59<sup>lyn</sup> tyrosine kinases in human lymphocytes. *Blood* 82:1212-1220, 1993.

Waddick KG, **Uckun FM**. Effects of recombinant interleukin-3 and recombinant interleukin-6 on radiation survival of normal human bone marrow progenitor cells. *Radiation Oncology Investigations* 1:34-40, 1993.

**Uckun FM**, Myers DE. Allograft and autograft purging using immunotoxins in clinical bone marrow transplantation for hematologic malignancies. *Journal of Hematotherapy* 2:155-163, 1993.

Schieven GL, Kirihaara JM, Gilliland LK, **Uckun FM**, Ledbetter JA. Ultraviolet radiation rapidly induces tyrosine phosphorylation and calcium signaling in lymphocytes. *Molecular Biology of the Cell* 4:523-530, 1993.

- Weisdorf DJ, Anderson PM, Blazar BR, **Uckun FM**, Kersey JH, Ramsay NKC. Interleukin 2 immediately after autologous bone marrow transplantation for acute lymphoblastic leukemia - a phase I study. *Transplantation* 55:61-66, 1993.
- Uckun FM**, Downing JR, Gunther R, Chelstrom LM, Finnegan D, Land VJ, Borowitz MJ, Carroll AJ, Crist WM. Human t(1;19)(q23;p13) pre-B acute lymphoblastic leukemia in mice with severe combined immunodeficiency. *Blood* 81:3052-3062, 1993.
- Uckun FM**, Chandan-Langlie M, Jaszcz W, Obuz V, Waddick K, Song CW. Radiation damage repair capacity of primary clonogenic blasts in acute lymphoblastic leukemia. *Cancer Research* 53:1431-1436, 1993.
- Waddick KG, **Uckun FM**. CD5 antigen-positive B lymphocytes in human B cell ontogeny during fetal development and after autologous bone marrow transplantation. *Experimental Hematology* 21:791-798, 1993.
- Uckun FM**, Myers DE, Irvin JD, Kuebelbeck VM, Finnegan D, Chelstrom LM, Houston LL. Effects of the intermolecular toxin-mono-clonal antibody linkage on the *in vivo* stability, immunogenicity, and anti-leukemic activity of B43 (anti-CD19) pokeweed antiviral protein immunotoxin. *Leukemia and Lymphoma* 9:459-476, 1993.
- Erice A, Balfour HH Jr, Myers DE, Leske VL, Sannerud KJ, Kuebelbeck V, Irvin JD, **Uckun FM**. Anti-human immunodeficiency virus type 1 activity of an anti-CD4 immunoconjugate containing pokeweed antiviral protein. *Antimicrobial Agents and Chemotherapy* 37:835-838, 1993.
- Uckun FM**, Song CW. Lack of CD24 antigen expression in B-lineage acute lymphoblastic leukemia is associated with intrinsic radiation resistance of primary clonogenic blasts. *Blood* 81:1323-1332, 1993.
- Uckun FM**, Jaszcz W, Chandan-Langlie M, Waddick KG, Gajl-Peczalska K, Song CW. Intrinsic radiation resistance of primary clonogenic blasts from children with newly diagnosed B-cell precursor acute lymphoblastic leukemia. *J Clin Invest* 91: 1044-1051, 1993.
- Uckun FM**, Schieven GL, Tuel-Ahlgren LM, Dibirdik I, Myers DE, Ledbetter JA, Song CW. Tyrosine phosphorylation is a mandatory proximal step in radiation-induced activation of the protein kinase C signaling pathway in human B-lymphocyte precursors. *Proc Nat'l Acad Sci USA* 90:252-256, 1993.
- Chae HP, Jarvis LJ, **Uckun FM**. Role of tyrosine phosphorylation in radiation-induced activation of *c-jun* protooncogene in human lymphohematopoietic precursor cells. *Cancer Research* 53:447-451, 1993.
- Uckun FM**, Frankel A. The current status of immunotoxins: an overview of experimental and clinical studies as presented at the Third International Symposium on Immunotoxins. *Leukemia* 7:341-348, 1993.
- Jansen B, Kersey JH, Jaszcz WB, Gunther R, Nguyen DP, Chelstrom LM, Tuel-Ahlgren L, **Uckun FM**. Effective immunochemotherapy of human t(4;11) leukemia in mice with severe combined immunodeficiency (SCID) using B43 (anti-CD19)-pokeweed antiviral protein immunotoxin plus cyclophosphamide. *Leukemia* 7:290-297, 1993.
- Gunther R, Chelstrom LM, Finnegan D, Tuel-Ahlgren L, Irvin JD, Myers DE, **Uckun FM**. *In vivo* anti-leukemic efficacy of anti-CD7-pokeweed antiviral protein immunotoxin against human T-lineage acute lymphoblastic leukemia/lymphoma in mice with severe combined immunodeficiency. *Leukemia* 7:298-309, 1993.

**Uckun FM, Aeppli D, Song CW.** Radiation resistance of primary clonogenic blasts from children with acute lymphoblastic leukemia. *International Journal of Radiation Oncology Biology Physics* 27:899-906, 1993.

**Irvin JD, Uckun FM.** Pokeweed antiviral protein: ribosome inactivation and therapeutic applications. *Pharmacology and Therapeutics* 55:279-302, 1992.

**Uckun FM, Song CW, Nesbit M, Kersey JH, Ramsay NKC.** Immunophenotype predicts radiation resistance in T-lineage acute lymphoblastic leukemia and T-lineage non-Hodgkin's lymphoma. *International Journal of Radiation Oncology Biology Physics* 24:705-712, 1992.

**Uckun FM, Tuel-Ahlgren L, Song CW, Waddick K, Myers DE, Kiriara J, Ledbetter JA, Schieven GL.** Ionizing radiation stimulates unidentified tyrosine-specific protein kinases in human B-lymphocyte precursors, triggering apoptosis and clonogenic cell death. *Proc Nat'l Acad Sci USA* 89:9005-9009, 1992.

**Uckun FM, Chelstrom LM, Finnegan D, Tuel-Ahlgren L, Manivel C, Irvin JD, Myers DE, Gunther R.** Effective immunochemotherapy of CALLA + Cμ+ human pre-B acute lymphoblastic leukemia in mice with severe combined immunodeficiency using B43 (anti-CD19) pokeweed antiviral protein immunotoxin plus cyclophosphamide. *Blood* 79:3116-3129, 1992.

**Uckun FM, Manivel C, Arthur D, Chelstrom LM, Finnegan D, Tuel-Ahlgren L, Irvin JD, Myers DE, Gunther R.** In vivo efficacy of B43(anti-CD19)-pokeweed antiviral protein immunotoxin against human pre-B cell acute lymphoblastic leukemia in mice with severe combined immunodeficiency. *Blood* 79:2201-2214, 1992.

**Uckun FM, Haissig S, Ledbetter JA, Fidler P, Myers DE, Kuebelbeck V, Weisdorf D, Gajl-Peczalska K, Kersey JH, Ramsay NKC.** Developmental hierarchy during early human B-cell ontogeny after autologous bone marrow transplantation using autografts depleted of CD19<sup>+</sup> B-cell precursors by an anti-CD19 pan-B-cell immunotoxin containing pokeweed antiviral protein. *Blood* 79:3369-3379, 1992.

**Uckun FM, Kersey JH, Haake R, Weisdorf D, Ramsay NKC.** Autologous bone marrow transplantation in high-risk remission B-lineage acute lymphoblastic leukemia using a cocktail of three monoclonal antibodies (BA-1/CD24, BA-2/CD9, and BA-3/CD10) plus complement and 4-hydroperoxycyclophosphamide for ex vivo bone marrow purging. *Blood* 79:1094-1104, 1992.

**Uckun FM, Mitchell JB, Obuz V, Chandan-Langlie M, Min WS, Haissig S, Song CW.** Radiation and heat sensitivity of human T-lineage acute lymphoblastic leukemia (ALL) and acute myeloblastic leukemia (AML) clones displaying multiple drug resistance (MDR). *International Journal Radiation Oncology Biology Physics* 23:115-125, 1992.

**Uckun FM, Chelstrom LM, Irvin JD, Finnegan D, Gunther R, Young J, Kuebelbeck V, Myers DE, Houston LL.** In vivo efficacy of B43 (anti-CD19)-pokeweed antiviral protein immunotoxin against BCL-1 murine B-cell leukemia. *Blood* 79:2649-2661, 1992.

**Anderson PM, Crist W, Hasz D, Carroll AJ, Myers DE, Uckun FM.** G19.4(αCD3) x B43(αCD19) monoclonal antibody heteroconjugate triggers CD19 antigen-specific lysis of t(4;11) acute lymphoblastic leukemia cells by activated CD3 antigen-positive cytotoxic T cells. *Blood* 80:2826-2834, 1992.

**Chelstrom LM, Finnegan D, Uckun FM.** Treatment of BCL-1 murine B-cell leukemia with recombinant cytokines. Comparative analysis of the anti-leukemic potential of interleukin 1 beta (IL-1 β), interleukin 2 (IL-2), interleukin 6 (IL-6), tumor necrosis factor alpha (TNFα), granulocyte colony stimulating factor (G-CSF), granulocyte-macrophage

colony stimulating factor(GM-CSF), and their combination. *Leukemia and Lymphoma* 7:79-86, 1992.

Jansen B, **Uckun FM**, Jaszcz WB, Kersey JH. Establishment of a human t(4;11) leukemia in severe combined immunodeficient mice and successful treatment using anti-CD19 (B43)-pokeweed antiviral protein immunotoxin. *Cancer Research* 52:406-412, 1992.

Kersey J, Weisdorf D, **Uckun F**, Vallera B, Jansen B, Nesbit M, Haake R, Ramsay N. Allogenic and autologous bone marrow transplantation for high risk acute lymphoblastic leukemia. *Leukemia* 6(suppl 2):191-192, 1992.

**Uckun FM**, Hanson M, Tuel-Ahlgren L, Dibirdik I, Chandan-Langlie M, Discher D, Obuz V, Schieven GL, Ledbetter JA. Interleukin 3 stimulation enhances tyrosine phosphorylation and proliferative activity of human fetal thymocytes and leukemic T-cell precursors at multiple developmental stages of T-cell ontogeny. *Leukemia and Lymphoma* 6:117-132, 1992.

**Uckun FM**, Ramsay NKC, Waddick KG, Jaszcz W, Chandan-Langlie M, Obuz V, Haake R, Gajl-Peczalska K, Kersey JH, Song CW. In vitro and in vivo radiation resistance associated with CD3 surface antigen expression in T-lineage acute lymphoblastic leukemia. *Blood* 78:2945-2955, 1991.

**Uckun FM**, Mitchell JB, Obuz V, Jou CH, Waddick KG, Friedman N, Oubaha L, Min WS, Song CW. Radiation sensitivity of human B-lineage lymphoid precursor cells. *International Journal Radiation Oncology Biology Physics* 21:1553-1560, 1991.

Dibirdik I, Chandan-Langlie M, Ledbetter JA, Tuel-Ahlgren L, Obuz V, Waddick KG, Gajl-Peczalska K, Schieven GL, **Uckun FM**. Engagement of interleukin 7 receptor stimulates tyrosine phosphorylation, phosphoinositide turnover, and clonal proliferation of human T-lineage acute lymphoblastic leukemia (ALL) cells. *Blood* 78:564-570, 1991.

**Uckun FM**, Schieven GL, Dibirdik I, Chandan-Langlie M, Tuel-Ahlgren L, Ledbetter JA. Stimulation of protein tyrosine phosphorylation, phosphoinositide turnover, and multiple previously unidentified serine/threonine specific protein kinases by the pan-B cell receptor CD40/Bp50 at discrete developmental stages of human B-cell ontogeny. *Journal of Biological Chemistry* 266:17478-17485, 1991.

**Uckun FM**, Tuel-Ahlgren L, Obuz V, Smith R, Dibirdik I, Hanson M, Chandan-Langlie M, Ledbetter JA. Interleukin 7 receptor engagement stimulates tyrosine phosphorylation, phosphoinositide turnover, proliferation, and selective differentiation to the CD4 lineage by human fetal thymocytes. *Proc. Natl. Acad. Sci. USA.* 88:6323-6327, 1991.

Waddick KG, Song CW, Souza L, **Uckun FM**. Comparative analysis of the in vivo radioprotective effects of recombinant granulocyte colony-stimulating factor (G-CSF), recombinant granulocyte-macrophage CSF and their combination. *Blood* 77: 2364-2371, 1991.

**Uckun FM**, Dibirdik I, Smith R, Tuel-Ahlgren L, Chandan-Langlie M, Schieven GL, Waddick KG, Hanson M, Ledbetter JA. Interleukin 7 receptor ligation stimulates tyrosine phosphorylation, inositol phospholipid turnover, and clonal proliferation of human B-cell precursors. *Proc. Natl. Acad. Sci. USA.* 88:3589-3593, 1991.

Gilliland LK, Teh HS, **Uckun FM**, Norris NA, Teh S-J, Schieven GL, Ledbetter JA. CD4 and CD8 are positive regulators of T cell receptor signal transduction in early T cell differentiation. *Journal of Immunology* 146:1759-1765, 1991.

Ledbetter JA, Schieven GL, **Uckun FM**, Imboden JB. CD45 cross-linking regulates phospholipase C activation and tyrosine phosphorylation of specific substrates in CD3/Ti-stimulated T cells. *Journal of Immunology* 146:1577-1583, 1991.

Ledbetter JA, Schieven GL, Kuebelbeck VM, **Uckun FM**. Accessory receptors regulate coupling of the T cell receptor complex to tyrosine kinase activation and mobilization of cytoplasmic calcium in T-lineage acute lymphoblastic leukemia. *Blood* 77:1271-1282, 1991.

Myers DE, Irvin JD, Smith RS, Kuebelbeck VM, **Uckun FM**. Production of a pokeweed antiviral protein (PAP)-containing immunotoxin, B43-PAP, directed against the CD19 human B-lineage lymphoid differentiation antigen in highly purified form for human clinical trials. *Journal of Immunological Methods* 136:221-238, 1991.

Zarling JM, Moran PA, Haffar O, Diegel M, Myers DE, Kuebelbeck V, Ledbetter JA, **Uckun FM**. Inhibition of HIV-1 Replication in Seropositive Patients CD4<sup>+</sup> T-Cells by Pokeweed Antiviral Protein - Monoclonal Antibody Conjugates. *Int. J. Immunopharmac.* 13(1): 63-68, 1991.

**Uckun FM**. Regulation of human B-cell ontogeny (Review). *Blood* 76:1908, 1990.

**Uckun FM**, Kersey JH, Vallera DA, Ledbetter JA, Weisdorf D, Myers DE, Haake R., Ramsay NKC. Autologous bone marrow transplantation in high risk remission T-lineage acute lymphoblastic leukemia using immunotoxins plus 4-hydroperoxy-cyclophosphamide for marrow purging. *Blood* 76:1723-1733, 1990.

**Uckun FM**, Myers DE, Jaszcz W, Haissig S, Gajl-Peczalska K, Ledbetter JA. Temporal association of CD40 antigen expression with discrete stages of human B-cell ontogeny and the efficacy of anti-CD40 immunotoxins against clonogenic B-lineage acute lymphoblastic leukemia as well as B-lineage non-Hodgkin's lymphoma cells. *Blood* 76:2449-2456, 1990.

Min WS, Song CW, **Uckun FM**. Thermal sensitivity and thermal tolerance of human B-lineage acute lymphoblastic leukemia (ALL) cells. *International Journal Radiation Oncology Biology Physics* 18:147-153, 1990.

**Uckun FM**, Heerema NA. Use of lymphoid progenitor cell assays for a more detailed analysis of the cytogenetic changes occurring during clonal evolution in acute lymphoblastic leukemia. *Leukemia and Lymphoma* 2:1-16, 1990.

**Uckun FM**, Song CW, Wick M, Waddick KG, Souza L. In vivo radioprotective effects of recombinant human granulocyte colony stimulating factor in lethally irradiated mice. *Blood* 75:638-645, 1990.

Zarling JM, Moran PA, Haffar O, Sias J, Richman DD, Spina CA, Myers DE, Kuebelbeck V, Ledbetter JA, **Uckun FM**. Inhibition of HIV replication by pokeweed antiviral protein targeted to CD4<sup>+</sup> cells by monoclonal antibodies. *Nature* 347:92-95, 1990.

Manske J, **Uckun FM**, Myers DE, Vallera DA. Antigenic modulation and toxicity of intact ricin immunotoxins directed against human T-cells. *Antibody Immunoconjugates and Radiopharmaceutics* 3:113-125, 1990.

Woods WG, Ramsay NKC, Weisdorf D, Haake R, Vallera DA, Kim T, Lasky L, Nesbit ME, Bostrom B, **Uckun FM**, Goldman AI, Kersey JH. Bone marrow transplantation for acute lymphocytic leukemia utilizing total body irradiation followed by high doses of cytosine arabinoside: lack of superiority over cyclophosphamide-containing conditioning regimens. *Bone Marrow Transplantation* 6:9-16, 1990.

- Uckun FM, Heerema NA.** Use of leukemic progenitor cell assays for a more detailed analysis of the cytogenetic changes occurring during clonal evolution in acute lymphoblastic leukemia. *Leukemia and Lymphoma* 2:1-16, 1990.
- Uckun FM, Fauci AS, Chandan M, Myers DE, Ambrus JL.** Detection and characterization of human high molecular weight B-cell growth factor receptors on leukemic B-cells in chronic lymphocytic leukemia. *Journal of Clinical Investigation* 84:1595-1608, 1989.
- Uckun FM, Gajl-Peczalska KJ, Provisor AJ, Heerema NA.** Immunophenotype-karyotype associations in human acute lymphoblastic leukemia. *Blood* 73:271-280, 1989.
- Uckun FM, Gesner T, Song CW, Myers DE, Mufson A.** Leukemic B-cell precursors express functional receptors for human interleukin-3. *Blood* 73:533-542, 1989.
- Uckun FM, Gajl-Peczalska KJ, Ledbetter JA, Koller B.** Biphenotypic leukemic lymphocyte precursors in CD2<sup>+</sup> CD19<sup>+</sup> acute lymphoblastic leukemia and their putative normal counterparts in human fetal hematopoietic tissues. *Blood* 73: 1000-1015, 1989.
- Uckun FM, Myers DE, Fauci AS, Ambrus JL.** Leukemic B-cell precursors constitutively express functional receptors for human interleukin-1. *Blood* 74:761-776, 1989.
- Uckun FM, Gillis S, Souza L, Song CW.** Effects of recombinant human growth factors on radiation survival of human bone marrow progenitor cells. *International Journal Radiation Oncology Biology Physics* 16:415-435, 1989.
- Uckun FM, Song CW.** Radiobiological features of human pluripotent bone marrow progenitor cells (CFU-GEMM). *International Journal Radiation Oncology Biology Physics* 17:1021-1025, 1989.
- Uckun FM, Ramsay NKC, Kim T, Min WS, Song CW.** Radiobiologic heterogeneity of leukemic lymphocyte precursors from acute lymphoblastic leukemia patients. *International Journal of Radiation Biology* 56:611-615, 1989.
- Myers DE, Uckun FM, Swaim SE, Vallera DA.** The effects of aromatic and aliphatic maleimide crosslinkers on anti-CD5 ricin immunotoxins. *Journal of Immunological Methods* 121:129-142, 1989.
- Ledbetter JA, Norris NA, Grossmann A, Grosmaire LS, June CH, Uckun FM, Cosand WL, Rabinovitch PS.** Enhanced transmembrane signalling activity of monoclonal antibody heteroconjugates suggests molecular interactions between receptors on the T cell surface. *Molecular Immunology* 26:137-145, 1989.
- Buchsbaum DJ, Uckun FM.** Localization and imaging with radioiodine labeled B43 monoclonal antibody and fragments in nude mice bearing human B-cell lymphoma xenografts. *Antibody Immunoconjugates and Radiopharmaceutics* 2:179-199, 1989.
- Uckun FM, Myers DE, Ledbetter JA, Wee S-L, Vallera DA.** Cell-type specific cytotoxicity of anti-CD4 and anti-CD8 ricin immunotoxins against human alloreactive T-cell clones. *Blood* 74:2445-2454, 1989.
- Uckun FM, Ledbetter JA.** Immunobiologic differences between normal and leukemic human B-cell precursors. *Proc. Natl Acad. Sci. U.S.A.* 85:8603-8607, 1988.
- Ledbetter JA, Rabinovitch PS, June CH, Song CW, Clark EA, Uckun FM.** Antigen-independent regulation of cytoplasmic calcium in B cells with a 12-kDa B-cell growth factor and anti-CD19. *Proc. Natl. Acad. Sci. U.S.A.* 85:1897-1901, 1988.

**Uckun FM, Myers DE, Ledbetter JA, Swaim SE, Gajl-Peczalska KJ, Vallera DA.** Use of colony assays and anti-T-cell immunotoxins to elucidate the immunobiologic features of leukemic progenitor cells in T-lineage acute lymphoblastic leukemia. *Journal of Immunology* 140:2103-2111, 1988.

**Uckun FM, Song CW.** Radiobiological features of fresh leukemic bone marrow progenitor cells in acute lymphoblastic leukemia. *Cancer Research* 48:5788-5795, 1988.

**Uckun FM, Jaszcz W, Ambrus JL, Fauci AS, Gajl-Peczalska KJ, Song CW, Wick MR, Myers DE, Waddick KG, Ledbetter JA.** Detailed studies on expression and function of CD19 surface determinant using B43 monoclonal antibody. *Blood* 71:13-29, 1988.

**Uckun FM.** Anti-CD19 immunotoxins for in vivo immunotherapy of B-lineage acute lymphoblastic leukemias. *Antibody Immunoconjugates and Radiopharmaceutics* 1:247-262, 1988.

**Myers DE, Uckun FM, Ball ED, Vallera DA.** Immunotoxins for ex vivo marrow purging in autologous bone marrow transplantation for acute non-lymphocytic leukemia. *Transplantation* 46:240-244, 1988.

**Uckun FM, Gajl-Peczalska KJ, Myers DE, Ramsay NKC, Kersey JH, Colvin M, Vallera DA.** Marrow purging in autologous bone marrow transplantation for T-lineage acute lymphoblastic leukemia: efficacy of ex vivo treatment with immunotoxins and 4-hydroperoxycyclophosphamide against fresh leukemic marrow progenitor cells. *Blood* 69:361-366, 1987.

**Uckun FM, Fauci AS, Song CW, Mehta SR, Heerema NA, Gajl-Peczalska KJ, Ambrus JL.** B-cell growth factor receptor expression and B cell growth factor response of leukemic B-cell precursors and B lineage lymphoid progenitor cells. *Blood* 70:1020-1034, 1987.

**Uckun FM, Kersey JH, Gajl-Peczalska KJ, Heerema NA, Provisor AJ, Haag D, Gilchrist G, Song CW, Arthur DC, Roloff J, Lampkin B, Greenwood M, Dewald G, Vallera DA.** Heterogeneity of cultured leukemic lymphoid progenitor cells from B-cell precursor acute lymphoblastic leukemia (ALL) patients. *Journal of Clinical Investigation* 80:639-646, 1987.

**Weil-Hillman G, Uckun FM, Manske JM, Vallera DA.** Combined immunochemotherapy of human solid tumors in nude mice. *Cancer Research* 45:579-585, 1987.

**Uckun FM, Gajl-Peczalska KJ, Kersey JH, Houston LL, Vallera DA.** Use of a novel colony assay to evaluate the cytotoxicity of an immunotoxin containing pokeweed antiviral protein against blast progenitor cells freshly obtained from patients with common B-lineage acute lymphoblastic leukemia. *Journal of Experimental Medicine* 163:347-368, 1986.

**Youle RJ, Uckun FM, Vallera DA, Colombatti M.** Immunotoxins show rapid entry of diphtheria toxin but not ricin via the CD3 antigen. *Journal of Immunology* 136:93-98, 1986.

**Uckun FM, Azemove S, Myers DE, Vallera DA.** Anti-CD2 (T, p50) intact ricin immunotoxins for GVHD prophylaxis in allogeneic bone marrow transplantation. *Leukemia Research* 10:145-154, 1986.

**LeBien TW, Anderson JM, Vallera DA, Uckun FM.** Increased efficacy in selective elimination of leukemic cell line clonogenic cells by a combination of monoclonal antibodies BA-1, BA-2, BA-3 + complement and mafosfamid. *Leukemia Research* 10:93-98, 1986.

**Uckun FM, Ramakrishnan S, Haag D, Houston LL.** Ex vivo elimination of lymphoblastic leukemia cells from human marrow by mafosfamid. *Leukemia Research* 9:83-95, 1985.

**Uckun FM, Ramakrishnan S, Houston LL.** Increased efficiency in selective elimination of leukemic cells by combination of a stable derivative of cyclophosphamide and a human B-cell specific immunotoxin containing pokeweed antiviral protein. *Cancer Research* 5:69-75, 1985.

**Uckun FM, Vallera DA, Wee SL.** B lymphocyte regulation of human hematopoiesis. *Journal of Immunology* 135:3817-3822, 1985.

**Uckun FM, Ramakrishnan S, Houston LL.** Immunotoxin-mediated elimination of clonogenic tumor cells in the presence of human bone marrow. *Journal of Immunology* 134:2010-2016, 1985.

**Uckun FM, Stong R, Youle RJ, Vallera DA.** Combined ex vivo treatment with immunotoxins and mafosfamid: a novel immunochemotherapeutic approach for elimination of neoplastic T cells from autologous marrow grafts. *Journal of Immunology* 134:3504-3515, 1985.

**Ramakrishnan S, Uckun FM, Houston LL.** Anti-T cell immunotoxins containing pokeweed antiviral protein: potential purging agents for human autologous bone marrow transplantation. *Journal of Immunology* 135:3516-3522, 1985.

**Stong RC, Uckun FM, Youle RJ, Kersey JH, Vallera DA.** Use of multiple T-cell directed intact ricin immunotoxins for autologous bone marrow transplantation. *Blood* 66:627-635, 1985.

**Uckun FM, Ramakrishnan S, Haag D, Houston LL.** Heterogeneity in leukemia cell populations: a clear rationale for use of combination protocols for ex vivo marrow purging. *Transplantation Proceedings* 25:462-464, 1985.

**Uckun FM, Ramakrishnan S, Houston LL.** Ex vivo elimination of neoplastic T-cells from human marrow using an anti-Mr 41,000 protein immunotoxin: potentiation by ASTA Z 7557. *Blood* 50:19-23, 1985.

### ***Selected Articles Undergoing Peer Review:***

**D'Cruz OJ, Venkatachalam TK, Uckun FM.** WHI-05, a Novel Bromo-Methoxy Substituted Aryl Phosphate Derivative of Zidovudine with Potent Spermicidal Activity. *AIDS*, submitted, 1998.

**Trieu VN, Uckun FM.** Male-associated hypertension in LDL-R deficient mice. *Biochemical and Biophysical Research Communications*, submitted, 1998.

**Sudbeck EA, Mao C, Vig R, Venkatachalam TK, Tuel-Ahlgren L, Uckun FM.** Structure-Based Design of Novel Dihydroalkoxybenzylcopyrimidine (DABO) Derivatives as Potent Non-Nucleoside Inhibitors of HIV Reverse Transcriptase. *Antimicrobial Agents and Chemotherapy*, submitted, 1998.

**Vig R, Venkatachalam TK, Uckun FM.** Aryl Phosphate Derivatives of 3'-Deoxythymidine Are Not Potent Anti-HIV Agents. *Antiviral Chemistry & Chemotherapy*, submitted, 1998.

**Vig R, Venkatachalam TK, Uckun FM.** D4T-5'[p -Bromo-Phenylmethoxyalaninyl Phosphate] As A Potent And Non-Toxic Anti-HIV Agent. *Antiviral Chemistry & Chemotherapy*, submitted, 1998.

Trieu VN, Warner K, Busby K, Waurzyniak B, Uckun FM. Biologic activity of genestine in a murine stroke model employing photochemically induced focal cerebral ischemia. *Stroke*, submitted, 1998.

Aubrecht J, Narla RK, Ghosh P, Stanek J, Uckun FM. Molecular genotoxicity profiles of apoptosis inducing vanadocene complexes. *Molecular Pharmacology*, submitted, 1998.

Mao C, Vig R, Venkatachalam TK, Sudbeck EA, Uckun FM. Structure-Based Design of Potent Peptide Derivatives Using a Novel Computer Model for HIV Reverse Transcriptase Nonnucleoside Inhibitor Binding Pocket. *Nature Medicine*, submitted, 1998.

Trieu VN, Waurzyniak B, Myers DE, Wendorf H, Carpenter R, Uckun FM. Targeting genistein to the EGF-receptor on smooth muscle cell prevents vascular injury-induced hyperplasia. *Nature Medicine*, submitted, 1998.

### ***Review Articles and Book Chapters Published and In Press:***

Trigg ME, Gaynon P, Uckun FM. Acute lymphoblastic leukemia in children. In: *Cancer Medicine Fourth Edition* Eds: James F. Holland, Emile Fry III, Robert C. Bast, Jr., Donald W. Kufe, Donald L. Morton, Ralph R. Weichselbaum. Chapter 164, pp. 2945-2960, 1996.

Gehrz RC, Wilson C, Eckhardt J, Myers D, Irvin JD, Uckun FM. Treatment of human cytomegalovirus (HCMV) with novel antiviral immunoconjugates. In: *Progress in Cytomegalovirus Research* Ed: M.P. Landinin. Elsevier Science Publishers, BV. 1991.

Vallera DA, Uckun FM. A perspective on the use of immunotoxins in the treatment of heterogeneous neoplasms. In: *Immunology in New Drug Development*. Ed: J. Sinkule. Pergamon Press, New York. 1991.

Vallera DA, Uckun FM. Autologous bone marrow purging with immunotoxins in acute lymphoblastic leukemia. In: *New Strategies in Bone Marrow Transplantation*. UCLA Symposia on Molecular and Cellular Biology, New Series. Robert Peter Gale and Richard Champlin (eds). Wiley-Liss, Inc., New York, NY, pp. 39-50, 1991.

Vallera DA, Uckun FM. Bone marrow purging with immunotoxins for treatment of T cell acute lymphoblastic leukemia (T-ALL). *Progress in Clin. and Biol Research*, 333:191-205, 1990.

Weisdorf D, Ramsay NK, LeBien T, Woods W, Bostrom B, Nesbit M, Vallera DA, Uckun FM, Goldman A, Kim T, McGlave P, Hurd D, Haake R, Kersey JH. Allogeneic and autologous bone marrow transplantation for acute lymphoblastic leukemia. In: *Haematology and Blood Transfusion: Acute Leukemias II*, Vol. 33. Eds: T. Buchner, G. Schellong, W. Hiddemann and J. Ritter. Springer-Verlag, Berlin, Heidelberg, pp. 679-683, 1990.

Uckun FM, Myers DE, Ambrus J, Irvin JD. Immunotoxins containing pokeweed antiviral protein (PAP) against B-lineage restricted CD19 and HMW-BCGF receptors for cell-type specific anti-leukemic immunotherapy in human B-lineage acute lymphoblastic leukemias. [In] *Human Tumor Antigens and Specific Tumor Therapy*. UCLA Symposia on Molecular and Cellular Biology, New Series, Volume 99, Editors, R. Metzgar & M. Mitchell, Alan R. Liss, Inc., New York, NY, pp. 231-241, 1989.

Uckun FM, Irvin JD, Min WS, Kersey JH, Myers DE. B43/CD19-PAP is an effective immunotoxin and shows considerable clinical potential for both ex vivo and in vivo immunotherapy of B-lineage ALL. (In) *Autologous Bone Marrow Transplantation*,

Proceedings Fourth International Symposium, K Dicke, A Zander, N Gorin (eds.); Gulf Coast Printing, pp. 171-178, 1989.

**Uckun FM**, Hanson MS, Ambrus JL, Chandan M, Ledbetter, JA. Differences in CD19 function between normal and leukemic human B-cell precursors. (In) *Autologous Bone Marrow Transplantation*, Proc Fourth Intl. Symp, K Dicke, A Zander, N Gorin (eds.); Gulf Coast Printing, pp. 651-656, 1989.

Ledbetter JA, **Uckun FM**. Expression of a functional CD3/TCR complex on leukemic human T-cell precursors. [In] *Leukocyte Typing IV*. Proc. of the 4th International Conference on Human Leukocyte Differentiation Antigens. Vienna, February 21-25, 1989. Knapp W et al (eds) Oxford Press, pp. 312-314, 1989.

**Uckun FM**, Ledbetter JA. Expression and function of CD40/Bp50 in B-lymphocyte ontogeny. [In] *Leukocyte Typing IV*. Proceedings of the 4th International Conference on Human Leukocyte Differentiation Antigens. Vienna, February 21-25, 1989. Knapp W et al (eds) Oxford Press, pp. 97-99, 1989.

**Uckun FM**, Ledbetter JA. Altered function of the CD19 receptor on human leukemic B-cell precursors. [In] *Leukocyte Typing IV*. Proceedings of the 4th International Conference on Human Leukocyte Differentiation Antigens. Vienna, February 21-25, 1989. Knapp W et al (eds) Oxford Press, pp. 42-43, 1989.

**Uckun FM**, Kishimoto T, Ledbetter JA, Koller B. Immunobiologic features of biphenotypic lymphocyte precursors in the human hematopoietic system. [In] *Leukocyte Typing IV*. Proceedings of the 4th International Conference on Human Leukocyte Differentiation Antigens. Vienna, February 21-25, 1989. Knapp W et al (eds) Oxford Press, pp. 195-196, 1989.

Vallera DA, **Uckun FM**, Kersey JH, Weisdorf, DJ, Filipovich AH, Ramsay NKC, Lasky LC. Bone marrow purification. In: *Monoclonal Antibodies*. Edwards-Moulds J and Masouredis S (eds) American Assoc of Blood Banks, Arlington, VA, pp. 181-200, 1989.

Ramsay N, LeBien T, Weisdorf D, Woods W, Bostrom B, Nesbit M, Vallera D, **Uckun FM**, Goldman A, Kim T, Haake R, Lasky L, Kersey JH. Autologous BMT for patients with acute lymphoblastic leukemia. [In] *Bone Marrow Transplantation: Current Controversies*. UCLA Symposia on Molecular and Cellular Biology, New Series, Volume 91. Editors, R. P. Gale & R. Champlin, Alan R. Liss, Inc., New York, NY. pp. 57-66, 1989.

Ambrus JL, Fauci AS, Young R, McFarland P, Chesky L, Mostowski H, Chandan M, **Uckun FM**. Regulation of human B cell growth. *Experimental Hematology* pp. 73-81, 1989.

Vallera DA, **Uckun FM**. Immunoconjugates. (In) *Biological Response Modifiers and Cancer Research* (JW Chiao editor), Marcel Dekker, Inc., pp. 17-50, 1988.

**Uckun FM**, Kersey JH, Vallera DA, Ramsay NC, Waddick KG, Gajl-Peczalska KJ. CALLA clonogenic leukemic blasts in CALLA+ B-cell precursor acute lymphoblastic leukemia. (In) *Autotransplantation*, Proceedings of the Third International Symposium on Autologous Bone Marrow Transplantation, K Dicke (editor) pp 157-161, 1988.

Kersey JH, LeBien TW, Ramsay NC, Filipovich AH, McGlave PB, **Uckun FM**, Blazar BR, Vallera DA: Antibodies and immunotoxins for bone marrow purging. (In) Proceedings of the First International Symposium on Bone Marrow Purging, *Bone Marrow Transplantation* 2 (suppl), pp 47-50, 1988.

Ambrus JL, Goldstein H, Young KR, McFarland P, Nakagawa T, Nakagawa N, Brown E, **Uckun FM**, Tenner A, Peters M, Witzel N, Mostowski H, Fauci AS. Regulation of human B cell function. (In) *Lymphocyte Activation and Differentiation*, Editors JC Mani and J Dornand, Walter de Gruyter and Company, Berlin, pp. 73-81, 1988.

Kersey JH, Filipovich AH, Ramsay NC, **Uckun FM**, LeBien TW, McGlave PB, Blazar BR, Vallera DA. Anti-T cell immunotoxins for bone marrow purging. (In) *Proceedings of the International Meeting on Genotypic, Phenotypic and Functional Aspects of Hematopoiesis*, Assisi, Italy, Raven Press, 1988.

Vallera DA, Buchsbaum DJ, **Uckun FM**, Myers DE, Levitt SH. Labeled monoclonal antibodies for the treatment of cancer: an update from the University of Minnesota, Proc. of the 5th AOCR, 1988.

**Uckun FM**, Houston LL, Vallera DA. Pokeweed antiviral protein immunotoxins and their clinical potential for systemic prophylaxis/treatment of major complications of bone marrow transplantation in acute lymphoblastic leukemia. (In) *Membrane-Mediated Cytotoxicity*, UCLA Symposium on Molecular and Cellular Biology, New Series Vol. 45, pp. 243-256, B. Bonavida and RJ Collier (eds.); Alan R. Liss, Inc., New York, NY, 1987.

**Uckun FM**, Myers DE, Kersey JH, Filipovich AH, Ramsay NC, McGlave PB, Dickson TB, Vallera DA. Immunotoxins in bone marrow transplantation: an updated review of the Minnesota Experience. (In) *Membrane-Mediated Cytotoxicity*, UCLA Symposium on Molecular and Cellular Biology, New Series, Vol. 45, pp. 231-242, B Bonavida and RJ Collier (eds.); Alan R. Liss, Inc., New York, NY, 1987.

**Uckun FM**, LeBien TW, Gajl-Peczalska KJ, Kersey JH, Myers DE, Anderson JM, Dickson TB, Vallera DA. Ex vivo marrow purging in autologous bone marrow transplantation for acute lymphoblastic leukemia: use of novel colony assays to test the anti-leukemic efficacy of various strategies. (In) *Progress in Bone Marrow Transplantation*, UCLA Symposium on Molecular and Cellular Biology, New Series, Vol. 53, pp. 759-771, RP Gale and R Champlin (eds.); Alan R. Liss, Inc., New York, NY, 1987.

Blazar BR, Filipovich AH, Kersey JH, **Uckun FM**, Ramsay NC, McGlave PB, Vallera DA. T-cell depletion of donor marrow grafts: effects on graft versus host disease and engraftment. (In) *Recent Advances in Bone Marrow Transplantation*, UCLA Symposium on Molecular and Cellular Biology, New Series, Vol. 53, pp. 381-398, RP Gale and R. Champlin (eds.), Alan R. Liss, Inc., New York, NY, 1987.

**Uckun FM**, Ramakrishnan S, Haag D, Houston LL. Heterogeneity in leukemia cell populations: a clear rationale for use of combination protocols for ex vivo marrow purging. *Transplantation Proceedings*, 17:462-464, 1985.

Ramakrishnan S, **Uckun FM**, Houston LL. Inhibition of human peripheral blood T-cells by immunotoxins containing pokeweed antiviral protein. (In) *Monoclonal Antibodies and Cancer Therapy*, UCLA Symposia on Molecular and Cellular Biology, New Series, Vol. 27, pp. 275-286, RA Reisfeld, S Sell (eds.); Alan R. Liss, Inc., New York, NY, 1985.

**Uckun FM**, Ramakrishnan S, Houston LL. Immunotoxins containing pokeweed antiviral protein: New strategies for more effective bone marrow transplantation in acute lymphoblastic leukemia. (In) *Autologous Bone Marrow Transplantation*, Proc First Intl. Symp, K Dicke, A Zander, N Gorin (eds.); Gulf Coast Printing, pp. 449-453., 1985.

Korbling M, Hunstein W, **Uckun FM**. Autologous transplantation of manipulated stem cell grafts in hematologic malignancy. [In] *Proc. 5th World Congress of Cryosurgery* (Manila), pages 121-123, 1983.

Korbling M, Tutshka PJ, Santos GW, **Uckun FM**, Fliedner TM, Hunstein W. Collection, cryopreservation and manipulation of the autologous stem cell graft. [In] *Proc. 13th Intl. Congress of Chemotherapy* (Vienna, Austria). Vol. 232, 1-5, 1983.

### XIII. ABSTRACTS

Herman-Hatten K, Crotty ML, Sensel MG, Sather HN, Tuel-Ahlgren L, Heerema NA, Sarquis MB, Bostrom BC, Nachman JB, Steinherz PG, Gaynon PS, **Uckun FM**. Expression of MLL-AF4 fusion transcripts in normal and leukemic human hematopoiesis. *The American Journal of Human Genetics*, 61 (4), abstr. 370, 1997.

**Uckun FM**, Sensel MG, Sather HN, Gaynon PS, Arthur DC, Lange B, Steinherz PG, Kraft P, Hutchinson R, Nachman JB, Reaman GH, Heerema NA. Clinical Significance of Translocation t(1;19) in Childhood Acute Lymphoblastic Leukemia. *The American Journal of Human Genetics*, 61 (4), abstr. 469, 1997.

Unmammor N, **Uckun F**, Wood C, Meyn MS. ATM, cell cycle control, and radiosensitivity in lymphoid and solid tumors. *The American Journal of Human Genetics*, 61 (4), abstr. 471, 1997.

Messinger Y, Yanishevski Y, Ek O, Zeren T, Waurzyniak B, Gunther R, Chelstrom L, Chandan-Langlie M, Schneider E, Myers DE, **Uckun FM**. In vivo toxicity, pharmacokinetic features and immunogenicity of B43 (ANTI-CD19)-Genistein immunoconjugate in mice and non-human primates. *Blood*, 90 (10) Suppl. 1:329a, abstr. 1467, 1997.

**Uckun FM**, Waurzyniak BJ, Sather HN, Sensel MG, Chelstrom L, Nachman JB, Gaynon PS, Bostrom BC, Ek O, Sarquis MB, Steinherz PG, Reaman GH. Prognostic significance of T-lineage leukemic cell growth in SCID mice. *Blood*, 90(10) Suppl. 1:284b, 1997.

**Uckun FM**, Crotty ML, Sensel MG, Sather HN, Tuel-Ahlgren L, Heerema NA, Sarquis MB, Bostrom BC, Nachman JB, Steinherz PG, Gaynon PS, Herman-Hatten K. Expression of MLL-AF4 fusion transcripts in normal and leukemic human hematopoiesis. *Blood*, 90 (10) Suppl. 1:557a, abstr. 2481, 1997.

Chelstrom L, Sather HN, Waurzyniak BJ, Sensel MG, **Uckun FM**, Ek O, Sarquis MB, Nachman JB, Bostrom BC, Reaman GH, Gaynon PS. Prognostic significance of B-lineage leukemic cell growth in SCID mice. *Blood*, 90 (10) Suppl. 1:239b, 1997.

Heerema NA, Sather HN, Sensel MG, Kraft P, Nachman JB, Steinherz PG, Lange B, Hutchinson RS, Reaman GH, Trigg ME, Arthur DC, Gaynon PS, **Uckun FM**. Frequency and Clinical Significance of Cytogenetic Abnormalities in Pediatric T-Lineage Acute Lymphoblastic Leukemia. *Blood*, Suppl. 1:185a, abstr. 817, 1997.

**Uckun FM**, Sensel MG, Sather HN, Gaynon PS, Arthur DC, Lange B, Steinherz PG, Kraft P, Hutchinson R, Nachman JB, Reaman GH, Heerema NA. Clinical Significance of Translocation t(1;19) in Childhood Acute Lymphoblastic Leukemia. *Blood*, Suppl. 1: 184a, abstr. 816, 1997.

Perentesis J, Gunther R, Waurzyniak B, Yanishevski Y, Myers D, Ek O, Messinger Y, Shao Y, Chelstrom L, Schneider E, Evans W, **Uckun FM**. In vivo Biotherapy of Acute Myeloid Leukemia (AML) with a Recombinant Fusion Toxin Targeted to the Human Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) Receptor. *Proceedings of the American Association for Cancer Research*, Vol. 38, abstr. 2903, p.434, 1997.

**Uckun FM**, Steinherz PG, Sather H, Trigg M, Arthur D, Tubergen D, Gaynon P, Reaman G. Effect of CD2 Antigen Expression on Leukemic Cells on Event-Free Survival

after Chemotherapy for T-Lineage Acute Lymphoblastic Leukemia. *Blood*, Suppl. 88, p. 666a, abstr. 2653, 1996.

**Uckun FM**, Steinherz PG, Sather H, Arthur D, Trigg M, Tubergen D, Reaman G, Gaynon P. Improved Outcome of Children with T-Lineage Acute Lymphoblastic Leukemia after Intensive Chemotherapy. *Blood*, Suppl. 88, p. 667a, abstr. 2656, 1996.

**Uckun FM**, Yang Z, Steinherz PG, Sather H, Nachman J, Bostrom B, Reaman G, Trigg M, Arthur D, Tubergen D, Gaynon P. Cellular Expression of BCL-2 in Newly Diagnosed Childhood Acute Lymphoblastic Leukemia. *Blood*, Suppl. 88, p.373a, abstr. 1481, 1996.

**Uckun FM**, Sather H, Gaynon P, Arthur D, Trigg M, Tubergen D, Nachman J, Steinherz P, Sensel M, Reaman GR. Myeloid Antigen Positive Childhood Acute Lymphoblastic Leukemia. *Blood*, Suppl. 88, p.373a, abstr. 1482, 1996.

Li Q, Hudson W, Wang D, Berven E, **Uckun FM**, Kersey JH. Pharmacokinetics and Biodistribution of Radioimmunoconjugates of Anti-CD19 Antibody and Single Chain FV for Treatment of Human B-cell Malignancy. *Blood*, Suppl. 88, p.212a, abstr. 836, 1996.

Perentesis JP, Gunther R, Waurzyniak B, Chandan-Langlie M, Waddick KG, Yanishevski Y, Evans WE, **Uckun FM**. *In vivo* Anti-Myeloid Leukemia Activity of a Recombinant Fusion Toxin Targeted to the Human Granulocyte-Macrophage Colony-Stimulating Factor Receptor. *Blood*, Suppl. 88, p.211a, abstr. 831, 1996.

Biaglow JE, Manevich Y, **Uckun FM** and Held KD. Quantitation of Hydroxyl Radicals Produced by Radiation and Copper-Linked Oxidation of Ascorbate by 2-Deoxy-D-Ribose Method. *44th Annual Meeting of Radiation Research Society*, p.149, abstr. P17-299, 1996.

Perentesis JP, Bendel AE, Shao Y, Warman B, Davies SM, Chandan-Langlie M, Waddick KG, **Uckun FM**. Apoptotic Killing of Chemotherapy and Radiation-Resistant Human Myeloid Leukemias by a Recombinant Fusion Toxin Targeted to the Granulocyte-Macrophage Colony Stimulating Factor Receptor. *Blood*, Suppl. 86, p.436a, abstr.1729, 1995.

Masson E, Yanishevski Y, Myers D, Langlie M, Covalciuc C, Evans WE, **Uckun FM**. Pharmacokinetics of B43-PAP Immunotoxin in Children with Refractory Acute Lymphoblastic Leukemia (ALL). *Blood*, Suppl. 86, p. 769a, abstr. 3065, 1995.

Manevich Y, Biaglow J, **Uckun F**, Tuttle S, Held K. Comparison of Various Techniques for Detecting Hydroxy Radical (OH•). *43rd Annual Meeting of the Radiation Research Society*, abstr. P17-234, 1995.

Biaglow JE, Manevich Y, **Uckun F**, Held K, Tuttle S. Role of Fenton Chemistry in Guanosine Triphosphate Mediated Reactions. *43rd Annual Meeting of the Radiation Research Society*, abstr. P17-235, 1995.

Biaglow JE, Manevich Y, **Uckun F**, Held K, Tuttle S. Guanosine Triphosphate-Iron Interactions as Related to Membrane Thiol Oxidation and Signal Transduction. *43rd Annual Meeting of the Radiation Research Society*, abstr. S07-4, 1995.

**Uckun F**. Molecular Mechanism of Cell Cycle Arrest at G2/M Transition. *43rd Annual Meeting of the Radiation Research Society*, abstr. S23-4, 1995.

Gaynon PS, Bostrom BC, Reaman GH, Sather HN, Trigg ME, Tubergen DG, **Uckun FM**. Mechanisms of treatment failure in childhood acute lymphoblastic (ALL) leukemia: Children's Cancer Group (CCG) initiatives. *Ann Hematol* 70, Suppl. 1:A103, 1997.

- Waddick KG, **Uckun FM**. In Vivo Radiosensitization of Refractory Murine B-Lineage Leukemia Cells by Recombinant Cytokine Preconditioning Confers Extended Survival Following Bone Marrow Transplantation. *Blood*, Suppl. 84, p. 731a, abstr. 2910, 1994.
- Waddick KG, Myers DE, Chelstrom LM, Finnegan D, **Uckun FM**. Radioimmunotherapy Confers Extended Survival to SCID Mice Challenged with Therapy-Refractory Human Pre-B Acute Lymphoblastic Leukemia. *Blood*, Suppl. 84, p.498a, abstr.1977, 1994.
- Myers DE, **Uckun FM**. Eradication of Human Burkitt's Lymphoma Cells by a B43(Anti-CD19)-Genistein Immunoconjugate. *Blood*, Suppl. 84, p. 448a, abstr. 1776, 1994.
- Messinger Y, **Uckun FM**. Signal Transduction Through the Very Late Antigen (VLA)-4 and VLA-5 of Human B-cell Precursors. *Blood*, Suppl. 84, p. 435a, abstr.1726, 1994.
- Park HC, Tuel-Ahlgren L, Song CW, Jun X, Burkhardt A, Bolen JB, Biaglow JE, **Uckun FM**. Hydroxyl Radical-Triggered Stimulation of LYN and SYK Tyrosine Kinases in Irradiated Human B-lineage Lymphoid Cells. *Proceedings of the American Association for Cancer Research*, Vol. 35, abstr. 3872, p. 650, 1994.
- Tuel-Ahlgren L, Rowley BR, Burkhardt AL, Park HC, Waddick KG, Bolen JB, **Uckun FM**. Role of protein tyrosine kinase LYN in G<sub>2</sub>-phase specific cell cycle arrest of human B-lineage lymphoid cells after exposure to ionizing radiation. *Proceedings of the American Association for Cancer Research*, Vol. 35, abstr. 3788, p.636, 1994.
- Jun X, Tuel-Ahlgren L, **Uckun FM**. A novel signal transduction pathway is triggered by engagement of the B-cell receptor Bp47. *Proceedings of the American Association for Cancer Research*, Vol. 35, abstr. 3551, p.596, 1994.
- Uckun FM**, Sather H, Shuster J, Reaman G, Land V, Trigg M, Gunther R, Chelstrom LM, Gaynon P, Bleyer A, Hammond GD, Crist W. Leukemic Cell Growth in SCID Mice is a Predictor of Relapse in Newly Diagnosed B-lineage ALL. *Proceedings of the American Association for Cancer Research*, Vol. 35, abstr. 289, p.49, 1994.
- Uckun FM**, Song CW. Radiation Resistance of B-Lineage Acute Lymphoblastic Leukemia. *41st Annual Meeting of the Radiation Research Society*, abstr. P-20-18, 1993.
- Uckun FM**. Radiation-Induced G<sub>2</sub>-Arrest in Human Cell Cycle is Triggered by Tyrosine Phosphorylation and Inactivation of P34<sup>CDC2</sup> Kinase. *41st Annual Meeting of the Radiation Research Society*, abstr. P-29-13, 1993.
- Uckun FM**. Role of Tyrosine Phosphorylation in Radiation Induced Apoptosis of Human B-Lineage Acute Lymphoblastic Leukemia (ALL). *41st Annual Meeting of the Radiation Research Society*, abstr. S-17-2, 1993.
- Uckun FM**, Ramsay NK, Song CW. Immunophenotype Predicts Radiation Resistance in T-Lineage Acute Lymphoblastic Leukemia and Non-Hodgkin's Lymphoma. *40th Annual Meeting of the Radiation Research Society*, abstr. P-28-9, p. 112, 1992.
- Uckun FM**, Myers DE, Park CH, Song CW, Schieven GL, Tuel-Ahlgren L. Radiation-Induced Activation of Protein Kinase C Signaling Pathway is Triggered by Stimulation of Tyrosine-Specific Protein Kinases. *40th Annual Meeting of the Radiation Research Society*, abstr. P-30-5, p. 119, 1992.
- Uckun FM**, Song CW, Ledbetter JA, Schieven GL. Ionizing Radiation Stimulates Tyrosine-Specific Protein Kinases in Human B-Lymphocyte Precursors. *40th Annual Meeting of the Radiation Research Society*, abstr. P-30-6, p. 119, 1992.

**Uckun FM**, Ramsay NKC, Nesbit M, Weisdorf D, Houston LL, Myers DE, Brennen C, Smith C, Woods W, Kersey JH. A Clinical Phase I Dose Escalation Study of B43(Anti-CD19)-Pokeweed Antiviral Protein (PAP) Immunotoxin in Relapsed B-lineage Acute Lymphoblastic Leukemia Patients. *Third International Symposium of Immunotoxins*: 131, 1992.

**Uckun FM**, Myers DE, Balfour HH, Irvin JJ, Erice A. Replication of Zidovudine (ZDV)-Resistant Clinical Isolates of Human Immunodeficiency Virus Type I (HIV-1) in Human T-Lymphocytes is Inhibited by Anti-CD4 Immunoconjugates Containing Pokeweed Antiviral Protein. *Third International Symposium of Immunotoxins*: 111, 1992.

**Uckun FM**, Crist WM, Irvin JD, Myers DE, Gunther R, Chelstrom LC. In Vivo Efficacy of B43(Anti-CD19)-Pokeweed Antiviral Protein Immunotoxin Against Human Pre-B Cell Acute Lymphoblastic Leukemia in Mice with Severe Combined Immunodeficiency. *Third International Symposium of Immunotoxins*: 110, 1992.

**Uckun FM**, Chelstrom LM, Finnegan D, Tuel-Ahlgren L, Irvin JD, Myers DE, Gunther R. Effective Immunochemotherapy of Calla<sup>+</sup>Cμ<sup>+</sup> Human Pre-B Acute Lymphoblastic Leukemia in Mice with Severe Combined Immunodeficiency using B43 (Anti-CD19) Pokeweed Antiviral Protein (PAP) Immunotoxin Plus Cyclophosphamide. *Third International Symposium of Immunotoxins*: 73, 1992.

**Uckun FM**, Manivel JC, Gunther R, Chelstrom L, Finnigan DM, Haissig S, Tuel-Ahlgren L, C-Langlie M, Crist WM. Human B-lineage acute lymphoblastic leukemia in SCID mice: ability of primary leukemic B-cell precursors from newly diagnosed B-lineage ALL patients to cause leukemia in immunodeficient CB.17 SCID mice may be associated with poor clinical outcome. *Blood*, Vol. 78, Suppl. 1:1520, 1991.

**Uckun FM**, Manivel JC, Gunther R, Land VJ, Borowitz M, Chelstrom L, Langlie M, Haissig S, Carroll AJ, Crist WM. In Vitro and In Vivo Clonogenicity of Leukemic B-cell Precursors (BCP) from Newly Diagnosed B-lineage Acute Lymphoblastic Leukemia Patients with a t(1;19)(q23;p13) Chromosomal Translocation. *Blood*, Vol. 78, Suppl.1:1304, 1991.

**Uckun FM**, Song CW, Kersey JH, Ramsay NKC. CD3 Antigen Expression in T-lineage Acute Lymphoblastic Leukemia (ALL) /Non-Hodgkin's Lymphoma (NHL) Predicts is Associated with In Vitro and In Vivo Radiation Resistance. *Blood*, Vol. 78, Suppl. 1:761, 1991.

**Uckun FM**, Haake R, Kersey JH, Haissig S, Weisdorf D, C-Langlie M, Nesbit M, Ramsay NKC. Impact of the Pre-transplant Residual Leukemia Burden (RLB) of High Risk Acute Lymphoblastic Leukemia (ALL) Patients on the Probability of Relapse After Autologous Bone Marrow Transplantation (BMT) *Blood*, Vol. 78, Suppl. 1:757, 1991.

Jansen B, Kersey JH, Jaszcz WB, **Uckun FM**. Therapy of Disseminated Human t(4:11) Leukemia in SCID Mice Using Anti-CD19(B43)-PAP Immunotoxin and Cyclophosphamide. *Blood*, Vol. 78, Suppl. 1:679, 1991.

**Uckun FM**, Tuel-Ahlgren L, Obuz V, Smith R, Dibirdik I, Ledbetter JA. Interleukin 7 receptors on human fetal thymocytes is intimately linked to a functional tyrosine protein kinase pathway. *Blood*, Vol. 76, Suppl. 1:880A, 1990.

**Uckun FM**, Dibirdik I, Smith R, Tuel-Ahlgren L, Chandan-Langlie M, Waddick K, Ledbetter JA. Engagement of high affinity interleukin 7 receptors on human pro-B cells stimulates tyrosine phosphorylation, phosphoinositide turnover, and proliferation. *Blood*, Vol. 76, Suppl. 1:668A, 1990.

**Uckun FM**, Vallera DA, Kersey JH, Weisdorf D, Kim T, Lasky L, Haake R, Waddick K, Myers DE, Filipovich A, Goldman A, Ramsay NKC. Treatment of Refractory

Residual Disease in High Risk remission T-lineage Acute Lymphoblastic Leukemia Patients by Autologous Bone Marrow Transplantation Using Autografts Purged Ex Vivo With Immunotoxins Plus 4-Hydroperoxy-cyclophosphamide. Proc. 31st. Annual Meeting of the American Society of Hematology, *Blood*, Vol. 74, Suppl. 1:1627A, 1989.

**Uckun FM**, Haake R, Waddick K, Weisdorf D, Lasky L, Kersey JH, LeBien TW, Kim T, Woods W, Goldman A, Ramsay NKC. Use of Fluorescence Activated Cell Sorting in Combination With Leukemic Progenitor Cell Assays for Quantitative Analysis of Residual Disease in Bone Marrow Samples from High Risk Remission Acute Lymphoblastic Leukemia Patients Who Undergo Autologous Bone Marrow Transplantation. Proc. 31st Annual Meeting of the American Society of Hematology, *Blood*, Vol. 74, Suppl. 1:90A, 1989.

**Uckun FM**, Gajl-Peczalska KJ, Waddick KG, Hupke M, Hanson M, Chandan-Langlie M, Myers DE, Ledbetter JA. Expression and Function of CD40/BP50 Human B-Cell Receptor. Proc. 31st Annual Meeting of the American Society of Hematology, *Blood*, Vol. 74, Suppl. 1:282A, 1989.

Vallera DA, Kersey JH, Ramsay NKC, Lasky L, **Uckun FM**. Immunotoxins and Combined Strategies for Selective Purging of Leukemia Cells from Autologous Bone Marrow, 1989.

Jaszcz W, Gajl-Peczalska KJ, **Uckun FM**. The effects of low molecular weight B-cell growth factor on cell cycle kinetics of leukemic human B-cell precursors. *Proc. United States and Canadian Academy of Pathology*, 1989.

Min WS, **Uckun FM**, Song CW. Thermal sensitivity of human B-lineage and T-lineage acute lymphoblastic leukemia cells. *Proc. 37th Annual Meeting of Radiation Research Society*, 1989.

**Uckun FM**, Myers DE, Fauci AS, Song CW, Ledbetter JA, Vallera DA, Houston LL, Chandan M, McFarland P, Chesky L, Swaim S, Mospowski H, Ambrus J. B cell growth factor receptors in B-lineage lymphoid malignancies. Therapeutic Implications. 17th Annual Meeting, UCLA Symposia on Molecular and Cellular Biology, *J. Cellular Biochemistry*, Suppl. 12E, 1988, abstr. T005, p. 117, 1989.

**Uckun FM**, Doerken B, Chandan M, Ambrus JL. Expression and Function of High Molecular Weight B-cell growth factor (H-BCGF) Receptors in Human B-lineage Leukemias/Lymphomas. [In] *Tissue Antigens, Histocompatibility and Immunogenetics* 33:163, 1989.

**Uckun FM**, Gesner TG. Leukemic B cell precursors express functional IL-3 receptors. [In] *Tissue Antigens, Histocompatibility and Immunogenetics* 33:182, 1989.

**Uckun FM**, Waddick K, Kuebelbeck V, Ledbetter J, Kishimoto T, Koller B. Biphenotypic normal and leukemic lymphocyte precursors. [In] *Tissue Antigens, Histocompatibility and Immunogenetics* 33:183, 1989.

**Uckun FM**, Myers DE, Ledbetter JA, Vallera DA. Log Kill Efficacy of PAP Immunotoxins Against Human Acute Lymphoblastic Leukemia Cells. [In] *Tissue Antigens, Histocompatibility and Immunogenetics* 33:361, 1989.

**Uckun FM**, Ledbetter JA. Expression and Function of CD40/BP50 Antigen in Early Human B-Lymphocyte Ontogeny. [In] *Tissue Antigens, Histocompatibility and Immunogenetics* 33:146, 1989.

**Uckun FM**, Ledbetter JA. Altered Function of the CD19 Receptor on Leukemic Human B-cell Precursors in B-lineage Acute Lymphoblastic Leukemias. [In] *Tissue Antigens, Histocompatibility and Immunogenetics* 33:146, 1989.

Kersey JH, **Uckun FM**, Vallera DA, Ramsay NKC, Gajl-Peczalska KJ. Immunophenotypes of acute lymphoblastic leukemia: Biologic and Therapeutic Studies. *Proc. Annual Meeting of American Society of Pediatric Hematology-Oncology*, 1989.

Manske JM, **Uckun FM**, Myers DE, Kersey JH, Buchsbaum D, Nelson LA, Vallera DA. Intracellular trafficking of anti-CD5 immunotoxins. *Proc. Third International Symposium on Immunotoxins*, Durham, NC 1988.

**Uckun FM**, Kersey JH, Ledbetter JA, Waddick K, Vallera DA, Chandan M, Ramsay NK: Use of fluorescence activated cell sorting in combination with leukemic progenitor cell assays for detection of residual leukemic blasts in autologous remission marrow grafts before and after purging. *Leukemia* 2:197, 1988.

Vallera DA, Bazar BR, Filipovich AH, Myers DE, **Uckun FM**: Immunotoxins and combined strategies for selective ex vivo purging in bone marrow transplantation for leukemia. *Leukemia* 2:191, 1988.

**Uckun FM**, Rabinovitch PS, June CH, Waddick K, Clark EA, Ledbetter JA: Effects of low molecular weight B cell growth factor and CD19 ligation on regulation of cytoplasmic calcium and proliferative activity of B-lineage cells. *Blood* 70:188, 1988.

Heerema NA, **Uckun FM**: Clonal evolution as revealed by karyotypic and immunophenotypic changes in acute lymphoblastic leukemia using a leukemic progenitor cell assay system. *Blood* 70:259, 1988.

**Uckun FM**, Kersey JH, Ledbetter JA, Waddick K, Vallera DA, Chandan M, Ramsay NC: Use of fluorescence activated cell sorting in combination with leukemic progenitor cell assays for detection of residual leukemic blasts in autologous bone marrow grafts before and after purging. *Blood* 70:1153, 1988.

**Uckun FM**, Ambrus JL, Myers DE, Chandan M, Waddick K, Gajl-Peczalska K, Fauci AS: Growth factor requirements of leukemic B-cell precursors. *Blood* 70:936, 1988.

Vallera DA, **Uckun FM**: Anti-CD4 Intact Ricin Immunotoxin. *Blood* 70:937, 1988.

**Uckun FM**, Kersey JH, Waddick KG, Ramsay NKC: Residual acute lymphoblastic leukemia blasts in autologous remission marrow grafts. *J. Cell. Biochem.* 12C:124, 1988.

Ramsay N, LeBien T, Weisdorf D, Woods W, Bostrom B, Nesbit M, Vallera D, **Uckun FM**, Goldman A, Kim T, Kersey JH: Autologous bone marrow transplantation for acute lymphoblastic leukemia. *J. Cell. Biochem* 12C, 1988.

Mostowski HS, Ambrus JL, **Uckun FM**, McFarland P, Fauci AS: Monoclonal antibody BA-5 and a polyclonal antisera to the receptor for HMW-BCGF recognize different populations of HMW-BCGF responsive cells. *Fed. Proc.*, 1988.

Ambrus JL, Chesky L, McFarland P, Young KR, Brown EJ, Peters M, **Uckun FM**, Ledbetter JA, Fauci AS: High molecular weight B cell growth factor activates two distinct pathways of intracellular signalling in SAC activated human B lymphocytes. *Fed. Proc.*, 1988.

**Uckun FM**, Ledbetter JA, Houston LL et al.: The clinical potential of anti-CD 19 immunotoxins in the treatment of B-lineage lymphoid malignancies. *Proc. Third International Conference on Monoclonal Antibody Immunoconjugates for Cancer*. UCSD Cancer Center, San Diego, CA, p. 12, 1988.

**Uckun FM**: Log Kill Efficacy of Immunotoxins against Human Leukemia Cells.

*Proc. First International Symposium on Immunotoxins*, Duke University Medical Center, 1988

Myers DE, **Uckun FM**, Swaim SE, Vallera DA: Heterobifunctional crosslinking reagents useful in the preparation of intact ricin monoclonal antibody immunotoxins. *Proceedings of the Second International Conference on Monoclonal Antibody Immunoconjugates for Cancer* p. 80, 1987.

**Uckun FM**, Gajl-Peczalska KJ, Vallera DA: Immunologically distinct leukemic lymphoid progenitor cell populations in B-cell precursor ALL. *Proceedings of the 28th Annual Meeting of the American Society of Hematology*, abstr. 497, p. 155a, 1987.

**Uckun FM**, Gillis S, Song CW: Effects of recombinant human granulocyte macrophage colony stimulating factor (rhGM-CSF) on radiation survival of non-nal human bone marrow progenitor cells. *Proceedings of the 29th Annual Scientific Meeting of the American Society for Therapeutic Radiology and Oncology [In] International Journal of Radiation Oncology Biology Physics*, Vol. 13, Suppl. 1, p. 155, 1987.

Song CW, **Uckun FM**: Leukemic bone marrow progenitor cells from T-lineage acute lymphoblastic leukemia (ALL) patients are able to repair sublethal radiation damage. *Proceedings of the 29th Annual Scientific Meeting of the American Society for Therapeutic Radiology and Oncology [In] International Journal of Radiation Oncology Biology Physics*, Vol. 13, Suppl. 1, p. 169, 1987.

**Uckun FM**, Vallera DA, Heerema NA, Arthur DC, Dewald G, Kersey JH: Correlations between the karyotypic findings and the proliferative activity of leukemic lymphoid progenitor cells in B-cell precursor ALL. *Proceedings of the 28th Annual Meeting of the American Society of Hematology* abstr. 951, p. 268a, 1987.

**Uckun FM**, Fauci AS, Waddick KG, Ambrus JL: Expression of high molecular weight B-cell growth factor receptors in B-cell precursor ALL. *Journal of Cellular Biochemistry* Suppl. 11 A, abstr. D343, p. 224, 1987.

Vallera DA, Myers DE, Kersey JH, Filipovich AH, **Uckun FM**: Immunotoxins in bone marrow transplantation: Eradication of T-cells/leukemic cells and potential for treatment of residual disease. *UCLA Symposium on Membrane-Mediated Cytotoxicity*, Park City, Utah. *Journal of Cellular Biochemistry* 10B:55, 1986.

Colombatti M, Greenfield L, **Uckun FM**, Vallera DA, Youle RJ: Comparison of immunotoxins made with ricin, diphtheria toxin, cloned diphtheria toxin fragment and toxin A chains. *Journal of Cellular Biochemistry* 10B:73, 1986.

**Uckun FM**, Kersey JH, Gajl-Peczalska KL, Vallera DA: Immunological surface marker profiles of cultured leukemic B-lineage marrow blasts in childhood acute lymphoblastic leukemia (ALL). (In) *Proceedings of the 77th Annual Meeting of AACR. Cancer Research* Vol. 27, p. 367, abstr. 1457, 1986.

Vallera DA, Myers DE, Pietryga DW, Wee SL, Kersey JH, Filipovich AH, **Uckun FM**: Ricin conjugates in bone marrow transplantation (B.M'O). (In) *Proceedings of the International Conference on Monoclonal Antibody Immunoconjugates for Cancer*, San Diego, p. 31-32, 1986.

Myers DE, **Uckun FM**, Ball ED, Vallera DA: Cytotoxicity of intact ricin immunotoxins directed against blasts from acute myeloblastic leukemia patients. *International Conference of MoAb Immunoconjugates for Cancer*, UCSD Cancer Center, San Diego, p. 75, 1986.

**Uckun FM**, Vallera DA, Song CW: Evaluation of the radiobiological characteristics of acute lymphoblastic leukemia (ALL) blast progenitors in novel colony assays. *Proceedings*

*of the Seventy-Seventh Annual Meeting of the American Association for Cancer Research*, Vol. 27, p. 69. Los Angeles, May 1986.

Vallera DA, Myers DE, Pietryga DW, Wee SL, Kersey JH, Houston LL, Filipovich AH, **Uckun FM**: Ricin conjugates in bone marrow transplantation (BMT). *International Conference on Monoclonal Antibody Immunoconjugates for Cancer*. San Diego, March 1986.

Myers DE, **Uckun FM**, Ball ED, Vallera DA: Cytotoxicity of intact ricin immunotoxins directed against blasts from acute myeloblastic leukemia patients. *International Conference of Monoclonal Antibody Immunoconjugates for Cancer*, San Diego, March 1986.

**Uckun FM**, Houston LL, Kersey JH, Vallera DA: Pokeweed Antiviral Protein (PAP) containing immunotoxins (M) in the treatment of acute lymphoblastic leukemia (ALL) and lymphoblastic lymphoma. *International Conference of Monoclonal Antibody Immunoconjugates for Cancer*, San Diego, March 1986.

**Uckun FM**, Ambrus JL, Mehta SR, Vallera DA, Maizel AL, Ledbetter JA, Gajl-Peczalska KJ, Fauci AS: Biological effects of purified natural B-cell growth factors on leukemic lymphoid progenitor cells in B-cell precursor ALL. *Proceedings of the 28th Annual Meeting of the American Society of Hematology* abstr. 606, p. 182A, 1986.

**Uckun FM**, Vallera DA, Song CW: Radiobiological characteristics of non-naïve and leukemic human bone marrow progenitor cells. *Proceedings of the 34th Annual Meeting of the Radiation Research Society* -1986.

**Uckun FM**, Myers DE, Gajl-Peczalska KJ, Kersey JH, Vallera DA: Immunophenotypic/ricin sensitivity of leukemic T-lineage marrow progenitor cells in ALL and the therapeutic potential of intact ricin immunotoxins in autologous bone marrow transplantation for T-ALL/lymphoblastic lymphoma. *Journal of Cellular Biochemistry* 10B:73, 1986.

**Uckun FM**, Gajl-Peczalska KJ, Kersey JH, Myers DE, LeBien TW, Houston LL, Vallera DA: Novel leukemic progenitor cell assays to optimize and standardize ex vivo marrow purging in autologous bone marrow transplantation for acute lymphoblastic leukemia. *Journal of Cellular Biochemistry* 10D:221, 1986.

Myers DE, **Uckun FM**, Swaim SE, Vallera DA: Maleimide crosslinking reagents useful for the formation of monoclonal antibody-ricin immunotoxins. *Federation Proceedings* Vol. 46, No. 4, p. 1129, abstr. 4736, 1986.

Vallera DA, Myers DE, Kersey JH, Filipovich AH, **Uckun FM**: Immunotoxins in bone marrow transplantation: Eradication of T-cells/leukemia cells and potential for treatment of residual disease. *Journal of Cellular Biochemistry* 10B:55, 1986.

Ramakrishnan S, **Uckun FM**, Houston LL: Immunotoxin-mediated cytotoxicity against human peripheral blood T-cells and inhibition of clonogenic proliferation of T-cell lines. *Journal of Cellular Biochemistry* 9A: 1032, 1985.

**Uckun FM**, Vallera DA: Evaluation of the cell type specific cytotoxicity of an immunotoxin containing pokeweed antiviral protein against blast progenitor cells freshly obtained from patients with common B-lineage acute lymphoblastic leukemia. *Blood* 66(5):272, 1985.

Vallera DA, Myers DE, Azemove S, Gajl-Peczalska KJ, Kersey JH, **Uckun FM**: Utilization of a novel colony assay to evaluate the cytotoxicity of intact ricin immunotoxins against freshly obtained leukemic T-lineage progenitor cells. *Blood* 66(5):108, 1985.

**Uckun FM, Korbling M, Hustein W:** In vitro chemotherapy as a prelude to autologous marrow transplantation in high grade malignant non-Hodgkin's lymphomas. *Journal of Cancer Research and Clinical Oncology* 107:46, 1984.

**Uckun FM, Houston LL, Ramakrishnan S, Hustein W:** In vitro tumor cell purging by immunotoxins in combination with 4-hydroxycyclophosphamide. *Experimental Hematology* 12:423, 1984.

**Uckun FM, Ramakrishnan S, Houston LL:** Selective elimination of clonogenic tumor cells from human bone marrow by immunotoxins. *Hybridoma* 3:67, 1984.

**Uckun FM, Houston LL, Ramakrishnan S:** Elimination of clonogenic tumor cells from human bone marrow by immunotoxins in combination with 4-hydroxycyclophosphamide. *10th International Congress of the Transplantation Society* (Minneapolis), S31.7, 1984.

**Uckun FM, Korbling M, Hustein W:** Assessment of clonogenic tumor stem cell elimination from the autologous marrow graft. *International Symposium on Detection and Treatment of Minimal Residual Disease in Acute Leukemia* (Rotterdam, the Netherlands), abstr. 38, 1983.

#### **XIV. CITATIONS**

950 citations (excluding those by Dr. Uckun's team at the University of Minnesota) in Citation Index between 1986 and 1995.

Biographical Citation in the Third Edition of "Who's Who Among Human Services Professionals."

Biographical Citation in the Third Edition of "Who's Who Among Rising Young Americans."

Biographical Citation in the Seventh Edition of "Who's Who in Technology."

Biographical Citation in the Third Edition of "Who's Who in Science and Engineering."

Biographical Citation in the Silver Twenty-fifth Edition of "Who's Who in the Midwest."

"Backtracking leukemia to birth," *Nature Medicine*, Volume 4, Number 2, February, 1998.

"New drug attacks against resistant breast cancer cells," *Health Care News*, February 18, 1998.

"Electromagnetic fields may trigger enzymes," *Science News*, Volume 153, February 21, 1998.

#### **XV. INVITED SEMINARS AND LECTURES OUTSIDE THE UNIVERSITY**

1984 - Invited Speaker, Annual Symposium of the German Society of Hematology, Ulm, West Germany.

1984 - Plenary Speaker, Second International Conference on Malignant Lymphomas, Lugano, Switzerland.

1984 - University of Kansas Immunohematology Research Seminar, Lawrence, KS.

1985 - Cetus Corporation Immunotoxin Research Conference, Emeryville, CA.

1985 - Invited Speaker, First International Symposium on Autologous Bone Marrow Transplantation, Houston, TX.

1986 - Invited Speaker, UCLA Symposium on Membrane-Mediated Cytotoxicity, Park City, UT.

1986 - Invited Speaker, UCLA Symposium on Recent Advances in Bone Marrow Transplantation, Keystone, CO.

1986 - Invited Speaker, Second International Symposium on Autologous Bone Marrow Transplantation, Houston, TX.

1986 - Cetus Corporation Immunobiology Research Seminar, Emeryville, CA.

1986 - Becton-Dickinson Corporation Research Conference, Mountain View, CA.

1986 - National Institute of Allergy and Infectious Diseases.

1987 - John Hopkins Bone Marrow Transplant Center Research Seminar, Baltimore, MD.

1987 - St. Judes Hospital Research Seminar, Memphis, TN.

1987 - Genetics Institute Research Conference, Boston, MA.

1987 - Cetus Corporation Immunotoxin Research Seminar, Emeryville, CA.

1987 - National Institutes of Health Leukemia Research Seminar, Bethesda, MD.

1987 - Indiana University Hematology/Oncology Seminar Series, Indianapolis, IN.

1987 - Endotronics Corporation Research Seminar, Coon Rapids, MN.

1987 - University of Istanbul Visiting Scientist Lecture Series, Istanbul, Turkey.

1987 - University of Ankara Visiting Scientist Lecture Series, Ankara, Turkey.

1988 - Invited Speaker, International Conference on Monoclonal Antibody Immunoconjugates for Cancer, San Diego, CA.

1988 - Invited Speaker, Fourth National Symposium of the Leukemia Society of America, New Orleans, LA.

1988 - Plenary Speaker, UCLA Symposium on Tumor Specific Antigens, Keystone, CO.

1988 - Plenary Speaker, International Symposium on Immunotoxins, Duke University Medical Center, Durham, NC.

1988 - Southwest Texas State University Immunotoxin Research Seminar, San Marcos, TX.

1988 - Helix Biocore Corporation Research Conference, Plymouth, MN.

1988 - Emory University School of Medicine Hematology Research Seminar.

1988 - Oncogen Corporation Research Conference, Seattle, WA.

1988 - Plenary Speaker, The Fourth International Symposium on Autologous Bone Marrow Transplantation, Houston, TX.

1988 - Invited Chairman, The 17th Annual Meeting of the International Society for Experimental Hematology, Houston, TX.

1989 - Oncogen Corporation Research Conference, Seattle, WA.

1990 - UCLA Symposium New Strategies in Bone Marrow Transplantation, Keystone, CO.

1990 - Invited Chairman and Speaker, International Symposium on "New Trends in Medicine," Istanbul, Turkey.

1991 - Invited Speaker, European Network of Immunology Institutes (ENII) 1991, L'Ile des Embrez, France.

1991 - Invited Chairman and Speaker, FASEB Meeting, Atlanta, GA.

1992 - Invited Speaker, Third International Symposium on Immunotoxins, Orlando, FL.

1992 - Invited Research Seminar, St. Jude Children's Research Hospital, Memphis, TN: "Biochemical Signals Induced by Ionizing Radiation".

1992 - Invited Speaker, St. Jude Children's Research Hospital, Memphis, TN, Hematology Grand Rounds.

1992 - Invited Speaker, ASTRO Panel Sessions, San Diego, CA: "Biological Response Modifiers: Cytokine and Growth Factors.

1992 - Invited Research Seminar, Fred Hutchinson Cancer Center, Seattle WA: "Immunotoxin Therapy of Lymphoid Malignancies".

1993 - Invited Speaker, Radiation Research Society, Dallas, TX: "Role of Tyrosine Kinases in Radiation Induced Apoptosis".

1993 - Invited Wednesday Seminar Speaker for the Department of Radiation Oncology, University of Pennsylvania, Philadelphia, PA: "Tyrosine Kinases and Radiation Biology".

1993 - Department of Radiation Oncology, Medical College of Virginia, Richmond, VA.

1993 - Organizer and Speaker for The XVI Symposium of the International Association for Comparative Research on Leukemia and Related Diseases, Montreal, Canada: "New Approaches in Targeted Immunotherapy of Leukemias and Lymphomas".

1993 - Invited Speaker, The Fourth International Symposium on Bone Marrow Purging and Processing, Orlando, FL: "Immunotoxin Therapy".

1993 - Invited Speaker, The Eighty-Fourth Annual Meeting of the American Association for Cancer Research, Orlando, FL: "Targeted Biotherapy in Childhood Leukemias".

1993 - Invited Workshop Participant and Presenter, ALL Risk Criteria Workshop, Rockville, MD.

1993 - Invited Speaker, Phase I Meeting for the Cancer Therapy Evaluation Program, Bethesda, MD.

1993 - Invited Workshop Participant, Vascular Leak Syndrome Workshop.

1994 - Invited Speaker, Meeting on Gene Induction and Adaptive Processes in Irradiated Cells: Mechanisms and Clinical Implications, Montreal, Canada.

1994 - M.D. Anderson Cancer Center Grand Rounds: Biotherapy of Cancer and Immunologic Disorders. Houston, TX.

1994 - CHOC Grand Rounds: Biotherapy of Hematologic Malignancies. Orange, CA.

1994 - Meeting of the Board of Trustees of the National Childhood Cancer Foundation. Scientific Presentation: Advances in the Biotherapy of Cancer. Arcadia, CA.

1994 - Plenary Speaker at the Children's Cancer Group Meeting in Dallas. "Biotherapy and Future Challenges". Dallas, TX.

1995 - Chairman of Symposium entitled "Radiation Effects on Signal Transduction" at the joint meeting of the North American Hyperthermia Society and the Radiation Research Society.

1995 - "Targeted Biotherapy of Leukemias" Marrow Transplantation in Children: Current Results and Controversies, Hilton Head Island, SC.

1995 - Session Chair and Invited Speaker, Fourth International Symposium on Immunotoxins, Myrtle Beach, SC.

1995 - Grand Rounds, Los Angeles Children's Hospital, Los Angeles, CA.

1995 - Guest Lecturer, Parke Davis.

1995 - Invited Speaker, Elkin Distinguished Investigators Cancer Lectureship, Winship Cancer Center, Emory University School of Medicine, Atlanta, GA.

1995 - Guest Lecturer, Biotechnology in the cGMP Environment, cGMP Training Course, Earl Brown Conference Center, St. Paul, MN.

1995 - Invited Participant, CaPCURE, National Cancer Summit, Washington, DC.

1995 - Oncology Grand Rounds, Memorial Sloan-Kettering, "Biotherapy of Cancer", New York, NY.

1995 - Anderson, PM and **Uckun, FM**. "Internalization of TP-3 antibody-pokeweed antiviral protein (PAP) conjugate efficiently kills osteosarcoma". Presented at the 4th Scandinavian Symposium on radiolabeled antibodies in the diagnosis and treatment of cancer, Lillehammer, Norway.

1995 - Anderson, PM and **Uckun, FM**. "TP-3 Antibody-Pokeweed Antiviral Protein (TP-3-PAP) Conjugate Efficiently Kills Osteosarcoma." Fifth International Conference of Anti-cancer Research, Corfu, Greece.

1996 - Plenary Speaker, 8th International Symposium on Autologous Marrow and Blood Transplantation, Title of Speech: "New Approaches to Ex Vivo Immunological Purging in ALL." Arlington, TX.

1996 - Plenary Speaker, 2nd Annual Scientific Meeting of the American Society for Blood and Marrow Transplantation (ASBMT), Title of Speech: "Tyrosine Kinases as New Targets for Cancer Therapy", San Diego, CA.

1996 - Plenary Speaker, Acute Leukemia Forum '96, Biology and Therapy of ALL in Adults: Bone Marrow Transplantation and Other Approaches, Title of Speech: "Is There a Role for Purging in ALL?" Tempe, AZ.

1996 - Plenary Speaker, Annual Leadership Conference of the Leukemia Society of America, La Jolla, CA. Title of presentation: "Biotherapy of Lymphocytic Malignancies".

1996 - Guest Lecturer, Chiron Corporation. Title of presentation: "Biotherapeutics".

1997 - Plenary Speaker, Marrow Transplantation in Children: Current Results and Controversies, Title of Speech: " In Vitro and In Vivo Treatment of Minimal Residual Leukemia in the Context of BMT", Fort Lauderdale, FL.

1997 - Keynote Speaker, National Cancer Institute of Canada/Dalhousie Medical Research Foundation's Cancer Workshop on Immune Cell Signaling in Leukemias and Select Cancers, Halifax, Nova Scotia.

1997 - Plenary Lecturer at the EMF Workshop/The Royal Society in London, The EMF Biological Research Trust. Title of presentation: "EMF induced BTK activation".

1997 - Plenary Speaker, Annual Meeting of the Radiation Research Society, Providence, Rhode Island. "Molecular Mechanisms of Radiation Induced Apoptosis".

1997 - Guest Lecturer, University of Illinois, "Biotherapy of Cancer".

1997 - Plenary Speaker, Gordon Conference on Apoptosis. New Hampshire.

1997 - Plenary Speaker, 29th Annual Meeting of the International Society of Pediatric Oncology, Istanbul, Turkey.

1997- Plenary Speaker, Children's Cancer Group Meeting in LaJolla, CA.

1997- 39th Annual Meeting & Exposition of The American Society of Hematology, San Diego, CA.

1998 - Invited Speaker, Citizens Forum of Northern Ramsey County, Roseville, MN, February 20.

1998 - Plenary Speaker, Children's Cancer Group Meeting in Houston, TX.

1998 - Plenary Speaker, RRS/NAHS Annual Meeting in Louisville, KY.