

CURRICULUM VITAE

NAME Dennis A. Johnston, Ph.D.

PRESENT TITLE AND AFFILIATION
Primary Appointment Professor, Department of Statistical Sciences
Baylor University, Waco, TX

OFFICE ADDRESS Baylor University
Department of Statistical Science
MMSci 227
One Bear Place #97140
Waco, TX 76798-7140
254/710-4079

EDUCATION
Degree Granting Arlington State College, Arlington, TX., B.S., Mathematics and
Physics
The University of Texas, Austin, TX., M.A., Mathematical
Analysis and Mathematical Statistics
Texas Tech University, Lubbock, TX., Ph.D., Mathematical
Analysis and Mathematical Statistics

Postgraduate Training N.A.

CREDENTIALS
Board Certification N/A

Licensures
Active N/A

Inactive N/A

EXPERIENCE/SERVICE
Academic Appointments Assistant Biomathematician and
Assistant Professor of Biomathematics (tenure-track)
Department of Biomathematics
The University of Texas System Cancer Center
M. D. Anderson Hospital and Tumor Institute
Houston, TX, 1972-1978

Associate Biomathematician and

Associate Professor of Biomathematics (tenured)
Department of Biomathematics
The University of Texas M.D. Anderson Cancer Center
Houston, TX, 1978-1997

Professor (tenured)
Department of Biomathematics
The University of Texas M.D. Anderson Cancer Center
Houston, TX, 1997-2003

Professor (tenured)
Department of Carcinogenesis
The University of Texas M.D. Anderson Cancer Center
Houston, TX, 1999-2003

Professor (tenured)
Department of Mathematics
Baylor University
Waco, TX, 2003-2004

Professor (tenured)
Department of Statistical Science
Baylor University
Waco, TX, 2004-present

Academic Administrative Appointments/Responsibilities

Chief, Section of Bioengineering
Department of Biomathematics
The University of Texas M.D. Anderson Cancer Center
Houston, TX, 1989-1999

Institutional Committee Activities

Chairman, Graduate School of Biomedical Sciences Membership
Committee, 1989-1990

Member, M.D. Anderson at Houston Patent Committee, 1984-
1987

Member, G.S.B.S. Admissions Committee, 1986-2003

Member, Graduate School of Biomedical Sciences Membership
Committee, 1987-1990

Member, G.S.B.S. Course Evaluation Task Group, 1989

Member, G.S.B.S. Specialized Masters in Medical Physics
Committee, 1988-1990; 1996-1999

Member, G.S.B.S. Review Committee, 1991-1998

Member, G.S.B.S. Specialized Masters Degree Committee, 1997-1998

Member, G.S.B.S. Curriculum Committee, 2000-2003

Member, UTHSC School of Health Information Sciences, Academic Advisory Committee, 2000-2003

Member, Baylor University School of Arts and Sciences Information Technology Committee, 2006-present

Member, Baylor University URSA Committee, 2010-present

Chairman, Baylor University URSA Grants Committee, 2010-present

Member, Baylor University IACUC Committee, 2013-present

Other Appointments/Responsibilities

Associate Scientist

Lockheed Electronics Company

Houston Aerospace Systems Division

Houston, TX, 6/1967-9/1967

Teaching Assistant

Texas Technological College

Lubbock, TX, 9/1966-6/1967; 1/1968-5/1968

Associate Scientist

Lockheed Electronics Company

Houston Aerospace Systems Division

Houston, TX, 6/1968-8/1968

Part-time Instructor

Texas Tech University

Lubbock, TX, 9/1968-5/1969

Scientific Programmer

Lockheed Electronics Company

Houston Aerospace Systems Division

Houston, TX, 6/1969-2/1970

Adjunct Assistant Professor

Department of Mathematical Sciences

Rice University

Houston, TX, 1974-1981

Adjunct Associate Professor

Department of Statistics

Rice University

Houston, TX, 1981-2003

Adjunct Associate Professor
Department of Pharmaceutics, College of Pharmacy
University of Houston
Houston, TX, 1991-2003

Member, Graduate School of Biomedical Sciences
University of Texas Health Sciences Center at Houston
Houston, TX, 1972-2005

Consultantships:

LTV Aerospace, Greenville, TX., 1/1967-5/1967
Mandrel Industries, Houston, TX., 1, 1967-5/1967; 2/1968-6/1968
The Texas Office of Economic Opportunity, Austin, TX., 6/1967-
5/1968

Military or Other Governmental Service

U.S. Army Reserves, Captain, Stationed on active duty at the
Manned Spacecraft Center, NASA, Houston, TX., 1970-1972

HONORS AND AWARDS

Phi Kappa Theta Honor Society
Arlington State College, Arlington, TX, 1962-1965

Fort Worth Star Telegram Employees Fund
Scholarship, 1962-1966

Texas Tech University Scholarship, 1968

Nomination and free membership in American
Mathematical Society, Department of Mathematics
Texas Tech University, Lubbock, TX, 1968

Listed in Who's Who in the Computer Industry
Listed in Who's Who in Science, 1975-Present

Dean's Teaching Excellence Award (awarded annually)
The University of Texas Health Science Center at Houston
Graduate School of Biomedical Sciences
Houston, TX, 1983-1997; 1999

Recipient of the Dean's Master Teacher Award
The University of Texas Health Science Center at Houston, TX,
1989

Finalist for the Julie and Ben Rogers Award for Excellence
The University of Texas M.D.Anderson Cancer Center,
Houston, TX, 1990

Outstanding Faculty Award
Graduate School of Biomedical Sciences, 1990-1991; 1996-1999

Nominee, UT M.D. Anderson Cancer Center
Faculty Senate Award for Excellence in Education, 1992; 1993

Educator of the Month, UT M.D. Anderson Cancer Center,
January, 2000.

2001 Geno Saccamanno New Frontiers in Cytology Award, 2001

RESEARCH

Grants and Contracts

Co-Investigator, Epidemiology of Early-Onset Colorectal Cancer
CA81632, Amr. S. Soliman, Ph.D., Principal Investigator
07/15/99-06/30/2001
\$49,958

Core Leader, Mechanisms and Prevention of Environmental
Disease, Core 6
P30 ES07784, John DiGiovanni, Ph.D., Principal Investigator
04/01/2001-03/31/2006
\$45,380

Co-Investigator, Identification of Predictive Image Analysis
Features (PIAFP) in Archival Histological Sections which
Predict Recurrence of Lung Cancer or Metastatic Disease
N01 CN85184, Ruth Katz, M.D., Principal Investigator
09/30/2001-01/15/2002
No cost extension

Co-Investigator, Asymmetric Dual-Screen CR Chest Imaging
R01 CA51248, Chris C. Shaw, Ph.D., Principal Investigator
07/01/1990-02/28/2002
\$171,085

Collaborator, The Early Detection Research Network: Biomarkers
Development Laboratories
U01 CA85078, Bogdan A. Czerniak, MD, Ph.D., P.I.
09/30/1999-09/29/2004
\$568,957

Co-Investigator, Genetic Determinants of Tumorigenesis, Core A
1P01 CA75137, Rodney S. Nairn, Ph.D., Principal Investigator
05/01/1999-02/29/2004
\$53,017

Co-Investigator, Low-Dose Limit of Effective Fractionation
RO1 CA29026, Howard D. Thames, Ph.D., Principal Investigator
01/10/2000-11/30/2004
\$125,259

Co-Investigator, Gene Expression Signature of Early Breast
Cancer, Core B: Statistics and Database Management
U19 CA84978, Macleod Aldaz, MD., Principal Investigator
04/06/01-03/31/05
\$110,441

Co-Investigator, Project 3 Therapeutic Modulation of Apoptosis in
Prostate Cancer Patients
UT M. D. Anderson Cancer Center SPORE in Prostate Cancer
P50 CA90270, Christopher Logothetis, MD, P.I.
05/01/2001-04/30/2006
\$146,052

Co-Investigator, Core B - Biostatistics And Data Management
Core
UT M. D. Anderson Cancer Center SPORE in Prostate Cancer
P50 CA90270 Christopher Logothetis, MD, P.I
05/01/2001-04/30/2006
\$124,732

Co-Investigator, Impact of Dietary Intervention in Men with
Prostate Cancer
AICR Research Grant
07/01/2000-06/30/2002
\$74,399

Co-Investigator, African-American Women's Nutrition for Life
Project
TURSG 01-247-01, Lovell Jones, Ph.D., Principal Investigator
07/01/2001-06/30/2002
\$418,635

Funded Protocols N/A

Patents Granted and Pending

1. Kokolus, William J., Fritsche, Herbert A. and **Johnston, Dennis A.**, inventors. Immunogenic Peptides of Prostate Specific Antigen. SN 08/472,228. Patent number 5,807,978, September 15, 1998.

2. Kokolus, William J., Fritsche, Herbert A. and **Johnston, Dennis A.**, inventors. Immunobiologically-active linear peptides and method of identification. Patent number 6,070,126, May 30, 2000.
3. Kokolus, William J., Fritsche, Herbert A. and **Johnston, Dennis A.**, inventors. Immunogenic peptides of prostate specific antigen. Patent Number 6,326,471B1, December 4, 2001.
4. Czerniak, Bogdan and **Johnston, Dennis A.**, inventors. Methods of Detecting, Diagnosing, and Treating Cancer and Identifying Neoplastic Progression. US serial number 10/167,241 and International Patents, pending.

Grant Reviewer/Service on NIH/Other Study Sections

N/A

PUBLICATIONS

a. Articles in Peer-Reviewed Journals

1. Reid, A., Warner, J., Ridley, W., **Johnston, D.**, Harmon, R., Jakes, P., and Brown, R. The major element compositions of lunar rocks as inferred from glass compositions in the lunar soils. **Proceedings of the Third Lunar Science Conference** (Supplement 3, *Geochimica et Cosmochimica Acta*) **1**:363-378, The MIT Press, 1972.
2. Tessmer, C.F., Krohn, W., **Johnston, D.**, Thomas, F.B., Hrgovcic, M., and Brown, B.W. Serum copper in children (6-12 years): An age correction factor. **American Journal of Clinical Pathology**, **60**:870-878, 1973.
3. Zimmerman, S. and **Johnston, D.A.** Non-parametric tests and ridits. **Journal of Periodontal Research (Supplemental)**, **14**:193-206, 1974.
4. Brown, L.R., Dreizen, S., Handler, S., and **Johnston, D.A.** The effect of radiation-induced xerostomia on the human oral microflora. **Journal of Dental Research**, **54**:740-750, 1975.
5. Ali, M.K., Mountain, C., Miller, J.M., **Johnston, D.A.** and Shullenberger, C.C. Regional pulmonary function before and after pneumectomy using Xenon-133. **Chest**, **68**:288-296, 1975.
6. Smalling, R.W., Skolnick, M.H., Myers, D., Shabetai, R., Cole, J.C. and **Johnston, D.A.** Digital boundary detection, volumetric and wall motion analysis of left ventricular cine angiograms. **Computers in Biology and Medicine**, **6**:73-85, 1976.
7. Brown, L.R., Dreizen, S., Rider, L.J. and **Johnston, D.A.** The effect of radiation-induced xerostomia on saliva and serum lysozyme and immunoglobulin levels. **Oral Surgery, Oral Medicine and Oral Pathology**, **41**:83-92, 1976.

8. Barlogie, B., Drewinko, B., **Johnston, D.A.**, Buchner, T., Hauss, W.H. and Freireich, E.J Pulse cytophotometric analysis of synchronized cells *in vitro*. **Cancer Research**, **36**:1176-1181, 1976.
9. Barlogie, B., Drewinko, B., **Johnston, D.A.** and Freireich, E.J The effect of adriamycin on the cell cycle traverse of a human lymphoid cell line. **Cancer Research**, **36**:1975-1979, 1976.
10. Brown, L.R., Fromme, W.J., Handler, S.F., Wheatcroft, M.G. and **Johnston, D.A.** Effect of Skylab missions on clinical and microbiologic aspects of oral health. **JADA**, **93**:357-363, 1976.
11. Barlogie, B., Spitzer, G., Hart, J.S., **Johnston, D.A.**, Buchner, T., Schumann, J. and Drewinko, B. DNA histogram analysis of human hemopoietic cells. **Blood**, **48**:245-258, 1976.
12. Crossen, P.E., Drets, M.E., Arrighi, F.E. and **Johnston, D.A.** Analysis of the frequency and distribution of sister chromatid exchanges in cultured human lymphocytes. **Human Genetics**, **35**:345-352, 1977.
13. Hsu, T.C., Collie, C.J., Lusby, A.F. and **Johnston, D.A.** Cytogenetic assays of chemical clastogens using mammalian cells in culture. **Mutation Research**, **45**:233-247, 1977.
14. Roper, P.R., **Johnston, D.**, Austin, J., Agarwal, S.S. and Drewinko, B. Profiles of platelet volume distributions in normal individuals and in patients with acute leukemia. **American Journal of Clinical Pathology**, **68**:449-459, 1977.
15. Brown, L.R., Fromme, W.J., Wheatcroft, M.G., Riggan, L.J., Russell, N.E. and **Johnston, D.A.** The effect of Skylab on the chemical composition of saliva. **Journal of Dental Research**, **56**:1137-1143, 1977.
16. McGregor, R.F., Johnson, D.E., Sharon, M.S., Crawford, R., Brown, B. and **Johnston, D.** Urinary amino acid excretion: Comparison of normal individuals and patients with bladder cancer. **Urology**, **9**:538-542, 1977.
17. **Johnston, D.A.**, White, R.A. and Barlogie, B. Automatic processing and interpretation of DNA distributions: Comparison of several techniques. **Computers and Biomedical Research**, **11**:393-404, 1978.
18. Barlogie, B., Gohde, W., **Johnston, D.A.**, Smallwood, L., Schumann, J., Drewinko, B. and Freireich, E.J Determination of ploidy and proliferative characteristics of human solid tumors by pulse cytophotometry. **Cancer Research**, **38**:3333-3339, 1978.
19. Brown, L.R., Dreizen, S., Daly, T.E., Drane, J.B., Handler, S., Riggan, L.J. and **Johnston, D.A.** Interrelations of oral microorganisms, immunoglobulins, and dental caries following radiotherapy. **Journal of Dental Research**, **57**:882-893, 1978.

20. Rentschler, R.E., Barlogie, B., **Johnston, D.A.** and Bodey, G.P. *In vivo* perturbation of human marrow cell cycle progression by ifosfamide. **Cancer Research**, **38**:2209-2215, 1978.
21. Dosik, G.M., Barlogie, B., **Johnston, D.A.**, Murphy, W.K. and Drewinko, B. Lethal and cytotoxic effects of anguidine on a human colon cancer cell line. **Cancer Research**, **38**:3304-3309, 1978.
22. Roper, P., Drewinko, B., Hasler, D., **Johnston, D.**, Hester, J. and Freireich, E.J. Effects of time, platelet concentration, and sex on the human platelet aggregation response. **American Journal of Clinical Pathology**, **71**:263-268, 1979.
23. Chan, R.C., Sutow, W.W., Lindberg, R.D., Samuels, M.L., Murray, J.A. and **Johnston, D.A.** Management and results of localized Ewing's sarcoma. **Cancer**, **43**:1001-1006, 1979.
24. Bergerat, J.-P., Barlogie, B., Gohde, W., **Johnston, D.A.** and Drewinko, B. *In vitro* cytotoxic response of human colon cancer cells to cis-dichlorodiammine-platinum (II). **Cancer Research**, **39**:4356-4363, 1979.
25. Barlogie, B., Corry, P.M., Yip, E., Lippman, L., **Johnston, D.A.**, Khalil, K., Tenczynski, T.F., Reilly, E., Lawson, R., Dosik, G., Rigor, B., Hankenson, R. and Freireich, E.J. Total body hyperthermia with and without chemotherapy for advanced human neoplasms. **Cancer Research**, **39**:1481-1489, 1979.
26. De La Rosa, R., Guerra, J.Z., **Johnston, D.A.** and Radtke, A.W. Plaque growth and removal with daily tooth brushing. **Journal of Periodontology**, **50**:661-664, 1979.
27. Stallings, R.L., **Johnston, D.A.**, Pathak, S. and Siciliano, M.J. A method of enzyme quantification to evaluate gene dosage effects in aneuploid human tumor cell lines. **Cancer Bulletin**, **32**:50-51, 1980.
28. Ali, M.K., Mountain, C.F., Ewer, M.S., **Johnston, D.** and Haynie, T.P. Predicting loss of pulmonary function after pulmonary resection for bronchogenic carcinoma. **Chest**, **77**:337-342, 1980.
29. Barlogie, B., Drewinko, B., Schumann, J., Gohde, W., Dosik, G., Latreille, J., **Johnston, D.A.** and Freireich, E.J. Cellular DNA content as a marker of human neoplasia in man. **American Journal of Medicine**, **69**:195-203, 1980.
30. Latreille, J., Barlogie, B., Dosik, G., **Johnston, D.A.**, Drewinko, B. and Alexanian, R. Cellular DNA contents as a marker of human multiple myeloma. **Blood**, **55**:403-408, 1980.

31. Zander, A.R., Sarpel, T., Cunningham, B., Hess, A.D., **Johnston, D.A.** and Epstein, R.B. Plasmapheresis as immunotherapeutic modality in the treatment of the canine venereal tumor. **Experimental Hematology**, **8**:1123-1128, 1980.
32. Zander, A.R., Verma, D.S., Spitzer, G., Huynh, L., **Johnston, D.**, Beran, M. and Dicke, K.A. Enhancement of hemopoietic recovery after bone marrow transplantation with the addition of nucleated blood cells in mice. **Blood**, **56**:1132-1135, 1980.
33. Drewinko, B., Roe, E., Hasler, D., Wallace, B. and **Johnston, D.** Evaluation of automatic and semiautomatic coagulation assay instruments. **Clinical Laboratory Hematology**, **2**:215-226, 1980.
34. Au, W.W., **Johnston, D.A.**, Collie-Bruyere, C. and Hsu, T.C. Short-term cytogenetic assay of nine cancer chemotherapeutic drugs with metabolic activation. **Environmental Mutagenesis**, **2**:455-464, 1980.
35. **Johnston, D.A.** Analysis of clinical trials. **Cancer Bulletin**, **32**:216-221, 1980.
36. Dosik, G.M., Barlogie, B., Gohde, W., **Johnston, D.**, Tekell, J.L. and Drewinko, B. Flow cytometry of DNA content in human bone marrow: A critical reappraisal. **Blood**, **55**:734-740, 1980.
37. Samaan, N.A., Castillo, S., Schultz, P.N., Khalil, K.G. and **Johnston, D.A.** Serum calcitonin after pentagastrin stimulation in patients with bronchogenic and breast cancer compared to that in patients with medullary thyroid carcinoma. **Journal of Clinical Endocrinology and Metabolism**, **51**:237-241, 1980.
38. Verma, D.S., Spitzer, G., Zander, A.R., Gutterman, J.U., McCredie, K.B., Dicke, K.A. and **Johnston, D.A.** Human leukocyte interferon preparation-mediated block of granulopoietic differentiation *in vitro*. **Experimental Hematology**, **9**:63-76, 1981.
39. Roper-Drewinko, P.R., Drewinko, B., Corrigan, G., **Johnston, D.**, McCredie, K.B. and Freireich, E.J. Standardization of platelet function tests. **American Journal of Hematology**, **11**:183-203, 1981.
40. Daly, J.M., Copeland, III, E.M., Johnson, D.E., **Johnston, D.**, Van Buren, C., Massar, E. and Dudrick, S.J. Uric acid: Effects on serum and urine levels in patient receiving intravenous dextrose, fat, and/or amino acid solutions. **Journal of Surgical Research**, **31**:98-104, 1981.
41. Dosik, G.M., Barlogie, B., **Johnston, D.**, Mellard, D. and Freireich, E.J. Dose-dependent suppression of DNA synthesis *in vitro* as a predictor of clinical response in adult acute myeloblastic leukemia. **European Journal of Cancer**, **17**:549-555, 1981.
42. Rodgers, R.W., Fuller, L.M., Hagemester, F.B., **Johnston, D.A.**, Sullivan, J.A., North, L.B., Butler, J.J., Velasquez, W.S., Conrad, F.G. and Shullenberger, C.C. Reassessment of

- prognostic factors in stage IIIA and IIIB Hodgkin's disease treated with MOPP and radiotherapy. **Cancer Research**, **47**:2196-2203, 1981.
43. Jensen, T.G., Dudrick, S.J. and **Johnston, D.A.** A comparison of triceps skinfold and upper arm circumference measurements taken in standard and supine positions. **Journal of Parenteral and Enteral Nutrition**, **5**:519-521, 1981.
 44. Jensen, J.E., Smith, T.K., Jensen, T.G., Dudrick, S.J. and **Johnston, D.A.** Nutrition in orthopedic surgery. **Orthopedic Transactions**, **5**:514-515, 1981.
 45. Latreille, J., Barlogie, B., **Johnston, D.**, Drewinko, B. and Alexanian, R. Ploidy and proliferative characteristics in monoclonal gammopathies. **Blood**, **59**:43-51, 1982.
 46. Baisch, H., Beck, H.P., Christensen, I.J., Hartmann, N.R., Fried, J., Dean, P.N., Gray, J.W., Jett, J.H., **Johnston, D.A.**, White, R.A., Nicolini, C., Zeitz, S. and Whetstone, J.V. A comparison of mathematical methods for the analysis of DNA histograms obtained by flow cytometry. **Cell and Tissue Kinetics**, **15**:235-249, 1982.
 47. Crawford, M.L.J., Meharg, L.S. and **Johnston, D.A.** Structure of columns in monkey striate cortex induced by luminant-contrast and color-contrast stimulation. **Proceedings of the National Academy of Science**, **79**:6722-6726, 1982.
 48. Guevara Jr., J., **Johnston, D.A.**, Ramagli, L.S., Martin, B.A., Capetillo, S. and Rodriguez, L.V. Quantitative aspects of silver deposition in proteins resolved in complex polyacrylamide gels. **Electrophoresis**, **3**:197-205, 1982.
 49. Hagemester, F.B., Fuller, L.M., Velasquez, W.S., Sullivan, J.A., North, L., Butler, J.J., **Johnston, D.A.** and Shullenberger, C.C. Stage I and II Hodgkin's disease: Involved-field radiotherapy versus extended-field radiotherapy versus involved-field radiotherapy followed by six cycles of MOPP. **Cancer Treatment Reports**, **66**:789-798, 1982.
 50. Barlogie, B., **Johnston, D.A.**, Smallwood, L., Raber, M.N., Maddox, A.-M., Latreille, J., Swartzendruber, D.E. and Drewinko, B. Prognostic implications of ploidy and proliferative activity in human solid tumors. **Cancer Genetics and Cytogenetics**, **6**:17-28, 1982.
 51. Drewinko, B., Bollinger, P., Roundtree, M., **Johnston, D.**, Corrigan, G., Dalton, W.T. and Trujillo, J.M. Eight-parameter automated hematology analyzers: Comparison of two flow cytometric systems. **American Journal of Clinical Pathology**, **78**:738-747, 1982.
 52. Hagemester, F.B., Fuller, L.M., Sullivan, J.A., **Johnston, D.**, North, L., Butler, J.J., Velasquez, W.S. and Shullenberger, C.C. Treatment of patients with stages I and II nonmediastinal Hodgkin's disease. **Cancer**, **50**:2307-2313, 1982.
 53. Jensen, J.E., Jensen, T.G., Smith, T.K., **Johnston, D.A.** and Dudrick, S.J. Nutrition in orthopaedic surgery. **Journal of Bone and Joint Surgery**, **64**:1263-1271, 1982.

54. Verma, D.S., **Johnston, D.A.**, Spitzer, G., Zander, A.R., Dicke, K.A. and McCredie, K.B. The mechanism of lithium carbonate-induced augmentation of colony-stimulating activity in man. **Leukemia Research**, **6**:349-363, 1982.
55. Verma, D.S., Spitzer, G., **Johnston, D.A.**, Beran, M., Zander, A.R. and McCredie, K.B. Monocyte-macrophage modulation of T-lymphocyte-derived colony-stimulating activity elaboration in man. **Scandinavian Journal of Haematology**, **28**:254-263, 1982.
56. Zander, A.R., Spitzer, G., Legha, S., Dicke, D.A., Verma, D.S., **Johnston, D.A.**, Vellekoop, L., Beran, M., Schell, F., Minnhaar, G., Blumenschein, G.R. and Bodey, G.P. High-dose AMSA and bone marrow rescue in patients with solid tumors. **Cancer Treatment Reports**, **66**:385-386, 1982.
57. Barlogie, B., Maddox, A. -M., **Johnston, D.A.**, Raber, M.N., Drewinko, B., Keating, M.J. and Freireich, E.J. Quantitative cytology in leukemia research. **Blood Cells**, **9**:35-55, 1983.
58. Ali, M.K., Ewer, M.S., Atallah, M.R., Mountain, C.F., Dixon, C.L., **Johnston, D.A.** and Haynie, T.P. Regional and overall pulmonary function changes in lung cancer. **Journal of Thoracic and Cardiovascular Surgery**, **86**:1-8, 1983.
59. Massar, E.L., Daly, J.M., Copeland, E.M., Johnston, D.E., von Eschenbach, A.C., **Johnston, D.A.**, Rundell, B. and Dudrick, S.J. Peripheral vein complications in patients receiving amino acid/dextrose solutions. **Journal of Parenteral and Enteral Nutrition**, **7**:159-162, 1983.
60. Verma, D.S., **Johnston, D.A.** and McCredie, K.B. Evidence for the separate human T-lymphocyte subpopulations that collaborate with autologous monocyte/macro-phages in the elaboration of colony-stimulating activity and those that suppress this collaboration. **Blood**, **62**:1088-1099, 1983.
61. Hillman, G.R. and **Johnston, D.A.** Histochemical labeling of drug receptors in schistosomes: Quantitation using computer image analysis techniques. **Journal of Pharmacological Methods**, **18**:260-269, 1983.
62. **Johnston, D.A.**, Capetillo, S., Ramagli, L.S., Guevara, Jr., J., Gersten, D.M. and Rodriguez, L.V. Standardization of protein position in silver stained two-dimensional polyacrylamide gel electrophoresis. **Electrophoresis**, **5**:110-116, 1984.
63. Barlogie, B., **Johnston, D.A.**, Keating, M., Spitzer, G., Hittelman, W.N., Nishioki, K. and Freireich, E.J. Evolution of oligoleukemia. **Cancer**, **53**:2115-2124, 1984.
64. Maddox, A.-M., **Johnston, D.A.**, Barlogie, B., Haq, M., Keating, M.J. and Freireich, E.J. *In vitro* suppression of DNA synthesis by a remission induction agent and its correlation with response in adult acute leukemia. **European Journal of Cancer and Clinical Oncology**, **20**:507-514, 1984.

65. Hug, V., Thames, H., **Johnston, D.**, Blumenschein, G., Drewinko, B. and Spitzer, G. The true predictive value of the human tumor stem cell assay: does a workable assay select for treatment responders? **Journal of Clinical Oncology**, **2**:42-45,1984.
66. Stahl, Jr., R.G., Arrighi, F.E., Matney, T.S., Bernard, G.S. and **Johnston, D.A.** Mutagenic and cytogenetic analyses of organic extracts of simulated runoffs from model coal piles. **Teratogenesis, Carcinogenesis, and Mutagenesis**, **4**:211-224, 1984.
67. Fuller, G.N., **Johnston, D.A.** and Wiggins, R.C. The relationship between nutritional adequacy and brain myelin accumulation: A comparison of varying degrees of well fed and undernourished rats. **Brain Research**, **290**:195-198, 1984.
68. Sudhakar, S., **Johnston, D.A.**, Becker, F.F. and Rodriguez, L.V. Phosphoprotein kinases and nonhistone chromosomal phosphoproteins during hepatocarcino-genesis induced by diverse acting carcinogens. **Cellular and Molecular Biology**, **30**:275-289, 1984.
69. Tomasovic, S.P., Rosenblatt, P.L., **Johnston, D.A.**, Tang, K. and Lee, P.S.Y. Heterogeneity in induced heat resistance and its relation to synthesis of stress proteins in rat tumor cell clones. **Cancer Research**, **44**:5850-5856, 1984.
70. Hunt, D.R., Lane, H.W., Beesinger, D., Gallagher, K., Halligan, R., **Johnston, D.** and Rowlands, B.J. Selenium depletion in burn patients. **Journal of Parenteral and Enteral Nutrition**, **8**:695-699, 1984.
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258. Majewski T; Lee S; Jeong J; Yoon DS; Kram A; Kim MS; Tuziak T; Bondaruk J; Lee S; Park WS; Tang KS; Chung W; Shen L; Ahmed SS; **Johnston DA**; Grossman HB; Dinney CP; Zhou JH; Harris RA; Snyder C; Filipek S; Narod SA; Watson P; Lynch HT; Gazdar A; Bar-Eli M; Wu XF; McConkey DJ; Baggerly K; Issa JP; Benedict WF; Scherer SE; Czerniak B. Understanding the development of human bladder cancer by using a whole-organ genomic mapping strategy. **Lab Invest** 2008 Jul; Vol. 88 (7), pp. 694-721.
259. de Ostrovich KK; Lambertz I; Colby JK; Tian J; Rundhaug JE; **Johnston D**; Conti CJ; DiGiovanni J; Fuchs-Young R. Paracrine overexpression of insulin-like growth factor-1 enhances mammary tumorigenesis in vivo. **Am J Pathol** 2008 Sep; Vol. 173 (3), pp. 824-34.
260. Kiat-amnuay, S., Jacob, R.F., Chambers, M.S., Anderson, J.A., Sheppard, R.A., **Johnston, D.A.**, Haugh, G.S., and Gettleman, L.: Clinical Trial of Chlorinated Polyethylene for Facial Prosthetics. **Int. J. Prosthodont.** 23(3):263-270, 2010 May-Jun.
261. Fuchs-Young R, Shirley S.H., Lambertz I, Colby J.K.L., Tian J., **Johnston D.**, Gimenez-Conti I.B., Donehower L.A., Conti C.J., Hursting S.D.: P53 Genotype as a Determinant of ER Expression and Tamoxifen Response in the MMTV-WNT-1 Model of Mammary Carcinogenesis. **Breast Cancer Res. Treat.** 130: 399-408, 2011 (January).
262. Anderson J.D., **Johnston D.A.**, Haugh G.S., Kiat-amnuay S., and Gettleman L.: The Toronto Outcome Measure for Craniofacial Prosthetics – Reliability and validity of a condition-specific quality-of-life instrument. **Int. J. Oral & Maxillofacial Implants**, 28(2):453-460, 2013 (Mar-Apr).
263. Pooler David, Qualls Natalie, Rogers Robin and **Johnston Dennis: An Exploration of Cohesion and Recovery Outcomes in Addiction Treatment Groups** (ID: 905217 DOI:10.1080/01609513.2014.905217). **Social Work with Groups.** - 19 Aug 2014 (Online) , 08 Sep 2014 (Print).

b. Invited Articles N/A**c. Abstracts**

1. Katz, R.L., Kidd, L., Zhang, H., Wagner, S., Caraway, N., Rubenchik, I., Sayage-Rabie, L., Dinney, C., Grossman, B. and **Johnston, D.**: Role of DNA quantitation and FISH in follow-up of patients with TCC. Fourth International Conference on the Computerized Cytology and Histology Laboratory, Chicago, IL, March 17-20, 1996.
2. Roberts, W.M., Ouspenskaia, M.V., Papusha, V.Z., **Johnston, D.**, McClain, K.L. And Zipf, T.F.: Measurement of treatment response and implications for cure of childhood acute lymphoblastic leukemia. Second Meeting of the European Haematology Association, Paris, France, May 29-June 1, 1996.
3. Roberts, W.M., Ouspenskaia, M.V., Papusha, V.Z., **Johnston, D.**, McClain, K.L. and Zipf, T.F.: Measurement of treatment response and implications for cure of childhood acute lymphoblastic leukemia. American Society of Hematology, Orlando, FL, December 1996.
4. Zipf, T.F., Estrov, Z., Ouspenskaia, M.V., **Johnston, D.A.**, Papusha, V.Z., McClain, K.L., and Roberts, W.M. Measurement of treatment response during remission and implications for cure of childhood acute lymphoblastic leukemia. American Society of Hematology, Orlando, FL, December, 1996.
5. Roberts, W.M., **Johnston, D.A.**, Ouspenskaia, M.V., Papusha, V.Z., and Zipf, T.F. Evaluating protocol efficacy by measuring submicroscopic disease reduction during treatment for childhood ALL. American Society of Hematology, Orlando, FL, December, 1996.
6. Sinkre, P, Katz, R.L., Kidd, L., Zhang, H-Z., **Johnston, D.A.** The predictive value of negative and equivocal urinary tract cytology when combined with DNA ploidy and cystoscopy evaluation. The 1997 Annual Meeting of the United States and Canadian Academy of Pathology.
7. Chen, M.E., Troncoso, P., **Johnston, D.**, Tang, K. and Babaian, R.J. Prostate size and the detection of cancer. Annual Meeting of the American Urological Association, Inc., New Orleans, LA, April 12-17, 1997.
8. Troncoso, P, **Johnston, D.A.**, Chen, M.E., Tang, K., Babaian, R.J. Computer mapping of prostate cancer. The Annual Meeting of the American Urological Association, Inc., 1997.
9. Chen, M.E., Troncoso, P, **Johnston, D.A.**, Tang, K., Babaian, R.J. Optimization of prostate biopsies using computer based analysis. The Annual Meeting of the American Urological Association, Inc., 1997.

10. Kokolus, W.J., **Johnston, D.A.**, Fritsche, H.A. A sequential amino acid hydrophathy rhythm (negative cosine) model for predicting biologically active linear epitopes in proteins. 12th International Symposium on Affinity Interaction: Fundamentals and Applications of Biomolecular Recognition, Kalmar, Sweden, June 15-19, 1997.
11. Zipf, T.F., **Johnston, D.A.**, Ouspenskaia, M.V., Papusha, V.Z., Brandt, M.A. and Roberts, W.M. Levels of residual childhood acute lymphoblastic leukemia at the end of 6-drug intensive reinduction after marrow relapse are similar to those from newly diagnosed patients at the end of 3- or 4-drug induction. The 39th Annual meeting of the American Society of Hematology, 1997.
12. Frates, Jr., R.C., Tamburro, R., Okhuysen, R., Robinson, L., Bristow, F., Bugritz, M., Stidham, G. and **Johnston, D.A.** Treatment outcomes in hypoxemic pediatric patients with viral lung disease comparing conventional mechanical ventilation to inhaled nitric oxide. American Journal of Respiratory and Critical Care Medicine, 157: pp549, March, 1988.
13. Goulden, N.J., Ouspenskaia, M.V., **Johnston, D.A.**, Papusha, V.Z., Brandt, M.A., Zipf, T.F. and Roberts, W.M.: Pharmacologic Sanctuary Sites are not Barriers to Lymphoblast Transit. 40th Annual Meeting of the American Society of Hematology, December, 1998.
14. Liu, J., Katz, R.L., Caraway, N.P., Shin, H.J., Kidd, L and **Johnston, D.**: Diagnosing Urothelial Carcinoma by Cytology and Image Analysis in Urine Sent via a Mailer System. 46th Annual Scientific Meeting, Nashville, Tennessee, November 3-7, 1998.
15. Laronga, C., Kemp., B., **Johnston, D.**, Robb, G., Singletary, S.E.: Feasibility of preserving the nipple-areola complex in the skin-sparing mastectomy era. 52nd Annual Cancer Symposium, Society of Surgical Oncology, Orlando, Florida, March 4-7, 1999.
16. Kiat-amnuay, S., Jacob, R.F., Mekayarajjanononth, T., **Johnston, D.A.**, and Powers, J.M.: Color Stability of Silicone Maxillofacial Prostheses: Effects of Microwave Sterilization. Trans. Amer. Academy. Maxillofac. Prosthet. 2:23. 2001
17. Kiat-amnuay, S., Gettleman, L., Anderson, J.D., **Johnston, D.A.**, and Jacob, R.F.: Randomized Controlled Multicenter Trial Comparing Chlorinated Polyethylene with Silicone Elastomer for Facial Prosthetics. Trans. Amer. Anaplastol. Assoc. 27:18. 2004.
18. Gettleman, L., Kiat-amnuay, S., **Johnston, D.A.**, Anderson, J.D., and Jacob, R.F.: Design of multicenter phase III clinical trial for maxillofacial prosthetics. J. Dent. Res. 83:(No. 1625). 2004.
19. Kiat-amnuay, S., Gettleman, L., Anderson, J.D., **Johnston, D.A.**, Jacob, R.F., Lemon JC, Chambers MS, and Khan Z: Design of a Randomized Controlled Double-Blind Phase III Clinical Trial for Maxillofacial Prostheses. Trans. UT Research Day. 10:65. 2004.

f. Book Chapters

1. **Johnston, D.A.** On the P-Q Generalized Inverse. Ph.D. Thesis, Texas Tech University and NASA Technical Memorandum TMX-58069, August 1971.
2. Zimmerman, S. and **Johnston, D.** Goodness of Fit Tests in Periodontal Clinical Trials. **Proceedings of the Meeting of the Conference on Clinical Trials of Agents Used in the Prevention/Treatment of Periodontal Diseases**, Philadelphia, PA, April 1-3, 1973.
3. Smalling, R., Myers, D., Skolnick, M., Shabeti, R. Cole, J.S. and **Johnston, D.A.** Automated Scanning and Analysis of Ventricular Cine Angiograms. **Proceedings of the Society of Photo-Optical Instrumentation Engineers**, Vol. 47, August 1-2, 1974, Kansas City, MO, pp. 176-182.
4. Zimmerman, S.O. and **Johnston, D.A.** Automated Cytogenetics at the M. D. Anderson Hospital. **Proceedings of the Workshop on Automated Cytogenetics**, Asilomar Conference, Pacific Grove, CA, Nov. 30 - Dec. 2, 1975, pp. 85-95.
5. Barlogie, B., Drewinko, B., Schumann, J., Buchner, T., Gohde, W., Hart, J.S. and **Johnston, D.A.** The Use of Mithramycin in Pulse Cytophotometry (PCP). **Pulse Cytophotometry: Second International Symposium on Pulse Cytophotometry**. W. Gohde, J. Schumann and T. Buchner, (eds.) European Press: Belgium; pp. 125-136, 1976.
6. Hazen, M.W., Arrighi, F.E. and **Johnston, D.A.** Chromosomes of Peromyscus (Rodentia, Cricetidae) VIII. Genome Characterization of Four Species. **Chromosomes Today**, Vol. 6, A. de la Chapelle and M. Sorsa, (eds). Elsevier/North-Holland Biomedical Press: Amsterdam, The Netherlands, pp. 167-176, 1977.
7. Nishioka, K., Romsdahl, M.M., Fritsche, H.A., Jr. and **Johnston, D.A.** Polyamines in Sera of Patients with Solid Tumors. **Advances in Polyamine Research**, Vol. 2, R.A. Campbell et al. (eds.), Raven Press: New York, pp. 265-272, 1978.
8. Arnott, M.S., Yamuchi, T. and **Johnston, D.A.** Aryl Hydrocarbon Hydroxylase in Normal and Cancer Populations. **Carcinogens: Identification and Mechanisms of Action**, A. Clark Griffin and Charles R. Shaw (eds.), Raven Press: New York, pp. 145-156, 1979.
9. Arnott, M.S., Yamuchi, T. and **Johnston, D.A.** Aryl Hydrocarbon Hydroxylase in Human Cancer Populations. **Human Cancer and AHH**, P.W. Jones and P. Leber (eds.), pp. 779-791, 1979.
10. Baisch, H., Beck, H-P., Christensen, I.J., Hartmann, N.R., Fried, J., Dean, P.N., Gray, J.W., Jett, J.H., **Johnston, D.A.**, White, R.A., Nicolini, C., Zietz, S. and Watson, J.V. Comparison of Evaluation Methods for DNA Histograms Measured by Flow Cytometry. **Proceedings of the Fifth International Symposium on Pulse Cytophotometry**, Acta Pathologie Microbiologia Scandinavia:Voss, Norway, 1979. Also published in **Flow Cytometry IV**, pp. 152-155, Universitetsforlaget 1980.

11. Hsu, T.C., Au, W.W., Strong, L.C. and **Johnston, D.A.** A Short-Term Cytogenetic Test for Genetic Instability in Humans. **Short-Term Tests for Chemical Carcinogens**, H.F. Stich and R.H.C. San, (eds.), Springer-Verlag: NY, pp. 217-235, 1981.
12. Jensen, J.E., Jensen, T.G., Smith, T.K., **Johnston, D.A.** and Dudrick, S. Nutritional Assessment of Orthopaedic Patients Undergoing Total Hip Replacement Surgery. The Proceedings of the 1981 Hip Society Meeting. The Frank Stinchfield Award Paper. **The Hip**, Chapter 9, C.V. Mosby, St. Louis, MO, 1981.
13. Lefebvre, R., **Johnston, D.A.**, Newton, L., Zimmerman, S. and Barlogie, B. Data Acquisition and Multiparameter Analysis in Flow Cytometry. **Transplantation and Clinical Immunology, Volume XIII: Proceedings of the Thirteenth International Course**, J.L. Touraine, J. Thraeger, H. Betuel, J. Brochier, J.M. Dubernard, J.P. Revillard and R. Triau (eds.), Lyon, France, June 15-18, 1981, Excerpta Medica: Amsterdam, pp. 216-223.
14. Bencomo, J.A., Haus, A.G., Paulus, D.D., Hill, C.A., Logan, W.W. and **Johnston, D.A.** A Method to Study the Effect of Controlled Changes of Breast Image Total System MTF on Diagnostic Accuracy. **Proceedings of S.P.I.E. Conference**: New Orleans, LA, May, 1982, 347.
15. Rodriguez, L.V., Ramagli, L.S. and **Johnston, D.A.** Analysis of Normal and Neoplastic Tissue NHCP By High-Resolution Two-Dimensional Gradient Electrophoresis and Silver Staining. **Recent Advances in Non-Histone Chromosomal Protein Research**. Bekhor, Isaac (ed.) CRC Press: Boca Raton, FL, pp. 165-192, 1985.
16. **Johnston, D.A.**, Capetillo, S.C., Ramagli, L.S., Becker, F.F. and Rodriguez, L.V. Automated 2-Dimensional Polyacrylamide Gel Analysis. **Computer Graphics '86**, Conference Proceedings, Technical Sessions, Vol. III, National Graphics Association: Washington, D.C., pp. 762-769, 1986.
17. Lockwood, D.H., **Johnston, D.A.**, Tang, K.S. and Riccardi, V.M. Image Processing and the Statistical Analysis of Banded Prophase Chromosomes. **Computer Graphics '86**, Conference Proceedings, Technical Sessions, Vol. III, National Graphics Association: Washington, D.C., pp. 754-761, 1986.
18. Buescher, E.S., McIheran, S.M., **Johnston, D.A.** and Tang, K.S. Polymorphonuclear Leukocyte (PMN) Chemotaxis Under Agarose: Quantitation of Population Movement Using Image Analysis. **Computer Graphics '86**, Conference Proceedings, Technical Sessions, Vol. III, National Graphics Association: Washington, D.C., pp. 748-753, 1986.
19. Walters, R., **Johnston, D.A.**, Dixon, D., Stass, S.A., Keating, M.J., Trujillo, J.M., McCredie, K.T. and Barlogie, B. Nucleic Acid Flow Cytometry: An Aid to Diagnosis and Prognosis in Acute Leukemia in Adults. **Acute Leukemia: Characterization and Diagnosis**. S.A. Stass, ed., Marcel Dekker: NY, pp. 203-245, 1986.

20. Katz, R.L., Wojcik, E.M. and **Johnston, D.A.** Image Analysis in Non-Hodgkin's Lymphomas Emphasizing Applications in Tissue Procured by Fine Needle Aspiration. **The Compendium on the Computerized Cytology and Histology Laboratory**. Tutorials of Cytology, Chicago, IL, pp. 241-258, 1994.
21. Katz, R.L., Kidd, L., Zhang, H., Wagner S., Caraway, N., Rubenchik, I., Sayage-Rabie, L., Dinny, C., Grossman, B., **Johnston, D.** Role of DNA quantitation and FISH in follow-up of patients with TCC. **Proceedings of the Fourth International Conference on the Computerized Cytology and Histology Laboratory**. Chicago, IL, March 17-20, 1996.
22. **Johnston, D.A.** Statistical consideration in the analysis of tumor markers. **Tumor Marker Protocols**. Z. Waleusek and M. Hanausek (eds.), Humana Press, NJ, 1998.
23. **Johnston, D.A.**, Zipf, T.F. Statistical Considerations in the Analysis of Minimal Residual Disease. **Leukemia and Lymphoma: Detection of Minimal Residual Disease**. D. Johnston and T. Zipf (eds.), Humana Press, 2003.
24. Zipf, T.F., **Johnston, D.A.** The Application of MRD Detection Methodology to the Clinical Decision Making Process. **Leukemia and Lymphoma: Detection of Minimal Residual Disease**. D. Johnston and T. Zipf (eds.), Humana Press, 2003.
25. Chen, M.E., **Johnston, D.**, Troncoso, P. Detailed Mapping of Prostate Cancer: Implications for Brachytherapy. **Basic and Advanced Techniques in Prostate Brachytherapy**, A.P. Dicker, G. Merrick, F.N. Waterman and L. Gomella (eds.), Martin Dunitz, October, 2003.

g. Books

1. Zipf, T. F., **Johnston, D.A.** (eds.): **Leukemia and Lymphoma: Detection of Minimal Residual Disease**, Humana Press, 2003.

h. Letters to Editor N/A

i. Manuals, Teaching Aids, and Other Publications

1. A Statistical Study of Calibration Systems. LEC/HASD Technical Report 672-23-TR50, January, 1970.
2. Apollo/Saturn Performance Tradeoffs-Probabilities. NASA/MSD Internal Note MSC-04025, March, 1971.
3. Statistical Considerations on the NASA Headquarters Personnel Survey. NASA Internal Note 72-FD-008, (MSC-06019), (CAD-2169), February, 1972.
4. Lunar Gravity Measurements Using the LM PIPA. NASA Internal Note 72-FD-006, (MSC-058), (CAD-2064), February, 1972.

5. Discussions in Basic Statistics. NASA Internal Note 72-FD-021, (MSC-07496), (CAD-2330), August, 1972.
6. Statistical Considerations in an Interactive Graphics Pattern Recognition System. NASA Internal Note 72-FD-019, (MSC-07371), (CAD-5081), September, 1972.
7. A Data Storage and Retrieval System for Endocrine Research. Prepared under Contract NAS-9-13042, December, 1973.
8. A Data Storage, Retrieval, and Analysis System for Endocrine Research. Prepared under NAS-9-13042, N75-18912, October, 1974.
9. Statistical Analysis of Skylab III. Prepared under Contract NAS 9-13042, N75-16582, November, 1974.
10. Moffitt, M.E., Tang, K., Lockwood, D.H., Newton, L., and Cavnar, W.: An Interactive General Purpose Image Digitizing System. (Fifth Edition), October, 1987.
11. Crout Factorization Calculation Subroutine. LEC Catalog No. 145, NASA/MSC Program B138, July, 1967.
12. Generalized Inverse Calculation Subroutine. LEC Catalog No. 146, NASA/MSC Program B139, July, 1967.
13. Sequential Pseudoinverse Calculation Subroutine. LEC Catalog No. 147, NASA/MSC Program B140, August, 1967.
14. Sequential Least Squares Parameter Estimation. LEC Catalog No. 148, NASA/MSC Program C054, August, 1967.
15. FORTRAN IV Programs, Appendix C in T. J. Taylor, A Regional Approach to the War Against Poverty. A Report to the Community Action Board in Lubbock County, Inc., and to the TX Office of Economic Opportunity, March, 1968.
16. Inversion of Matrices of the Form $(A+BCD)$. LEC Catalog No. 168, NASA/MSC Program B154, August, 1968.
17. Simultaneous System of Simultaneous Equations. LEC Catalog No. 168, NASA/MSC Program B154, August, 1968.
18. Pseudoinverse Comparison Routine. LEC Catalog No. 169, NASA/ MSC Program B161, August, 1968.
19. Weighted Gaussian Quadrature. LEC Catalog No. 173, NASA/MSC Program B158, September 1968.

20. Apollo Microbiology Statistical Analysis. LEC Catalog No. 200, NASA/MSC Program J192, March, 1970.
21. Land-Based Potato Respiration Calibration Program. LEC Catalog No. 201, NASA/MSC Program J193, March, 1970.
22. Polynomial Regression by the Backward Elimination Procedure. LEC Catalog No. 202, NASA/MSC Program C078, March, 1970.
23. Polynomial Regression. NASA/MSC Program C089, June, 1971.
24. Identification of Powder Diffraction Patterns. NASA/MSC Program D133, July, 1972.
25. Unbalanced Two-Way Analysis of Variance. UTMDAH Program Document, December, 1972.
26. An Interactive Classification System. UTMDAH Program Document, December, 1972.
27. A General Purpose Image Digitizing System. UTMDAH Program Document, May, 1973.
28. Editor (with B. W. Brown and W. W. Hargrove) UTHLIB: Part I: Subroutines and Function Subprograms. UTHERRCC Library, June, 1975.
29. An Interactive General Purpose Image Digitizing System. A UTSCC-MDAH Program (with M. Moffitt, K. Tang, D.H. Lockwood, L. Newton, and W. Cavnar). October, 1987.
30. A Program Package for *In-Vitro* Cell Kinetics. Internal Document, Department of Biomathematics, UTMDACC, September, 1976.
31. Website, Biomedical Statistics, University of Texas Health Sciences Center, Graduate School of Biomedical Sciences, 2002.

j. Other N/A

EDITORIAL AND REVIEW ACTIVITIES

Editor/Service on Editorial Boards

N/A

Journal Reviewer

Communications in Statistics, 1975-Present
 Computers in Biology and Medicine, 1975-Present
 Journal of the American Statistical Association, 1975-Present
 Journal of Dental Research, 1978-Present
 Lifetime Learning Publications, 1978-1990
 Radiology, 1978-Present
 Science, 1981-Present
 Technometrics, 1986-Present

Journal of Histochemistry and Cytochemistry, 1986-Present
Journal of Clinical Ultrasound, 1992-Present
Cancer Research, 2002-Present

TEACHING

Within Current Institution

Formal Teaching

Instructor, H494.1 - Statistics Section in
Biostatistics Core Studies Program, G.S.B.S.
4 hours, Fall 1972

Instructor, Biomedical Statistics I, G.S.B.S.
Spring 1973, 1974
3 hours, Fall 1973

Instructor, H494.1, G.S.B.S.
4 hours, Fall 1973

Instructor, H391.2 - Special Topics in Regression, G.S.B.S.
1 hour, Winter 1974

Instructor/Coordinator 1.01.4, Biomedical Statistics I, G.S.B.S.
4 hours, Fall 1974-1978

Instructor, 1.02.3, Biomedical Statistics II, G.S.B.S.
3 hours, 1980-1986, Spring 1975-1978, 1981-1985, Winter 1986,
1987

Instructor, 1.20.4, Digital Processing of Biomedical Images
G.S.B.S.
4 hours, Winter, 1985

Instructor, 1.61.3, Special Topic - Biomedical Image Processing,
G.S.B.S.
3 hours, Winter, 1977

Instructor/Coordinator, GS010014, Biomedical Statistics,
G.S.B.S., 4 hours, Fall 1987-1991, Summer, 1992-2003, Spring,
1994, 1996

Instructor/Coordinator, GS01.0043.4, Digital Processing of
Biomedical Images, G.S.B.S.
3 hours, Spring, 1988, 1990, 1991, 1993, 1995, 1997, 1999, 2000

Instructor, GS02.018.3, Mathematics for Medical Physics,
Statistics Section of G.S.B.S.
3 hours, Fall 1991

Instructor GSBS Course, Special Topics in Digital Processing of
Biomedical Images
3 hours, Fall 1995

Instructor, MA3381, Statistics for engineering and sciences,
Baylor University, Fall 2003, Spring 2006, Fall 2007.

Instructor, MA2381-01,03, Biomedical statistics for pre-medical
students, Baylor University, Spring, 2004-Spring, 2014 annually.

Instructor, MA5365-01, Clinical Trials, Baylor University,
Summer 2004, Spring 2006-Spring 2014

Instructor, STA3381, Statistics for engineering and sciences,
Baylor University, Fall, 2004, Spring 2005, Fall 2005, Spring
2006, Fall 2007

Instructor, STA 5300, Statistical Methods for non-Statistics
Majors, Fall or Spring 2006-2013.

Instructor, STA 5301, Experimental Design for non-Statistics
Majors, 2007, 2008, 2012, 2014

Instructor, STA5380, Statistical Methods for Statistics Majors,
Baylor University, Fall, 2004, Fall, 2005, Fall, 2006

Instructor, STA5383, Multivariate Analysis, Baylor University,
Spring, 2005, 2007, Fall 2010

Instructor, STA5364, Survival and Reliability, Baylor University,
Summer, 2005, Spring, 2007

Instructor (with two other professors), STA5388,
Pharmacokinetic models, Baylor University, Summer, 2006

Instructor, STA5366, Statistical methods in Bioinformatics,
Baylor University, Fall, 2006

Instructor, STA 5300, Statistical Methods, Spring 2008,2010, Fall
2009, 2010

Instructor, STA 5301, Experimental Design Methods, Spring 2007 - 2014

Instructor, STA 5384, Multivariate Methods, Spring 2010

Instructor, STA 6366, Statistical Methods in Bioinformatics, Fall, 2008, Spring 2011, Spring 2013

Instructor, STA 4372, Advanced Biostatistics, Spring, 2014

Instructor (with two other professors), CYS1399, Honors Introduction to Statistical Reasoning, Baylor University, Fall, 2006, 2007

Instructor, Chapel Friday (University 1000), Orientation for Freshmen, Baylor University, Fall, 2004, 2005, 2006.

Training Programs

Instructor, Basic Statistics,
NASA-Johnson Space Center, C&A Division,
Fall, 1969

Instructor, Biostatistics and Data Processing Facility Core
Workshop,
UTMDACC- Science Park Research Division
3hr session, Fall, 2000

Instructor, Biostatistics and Data Entry for Technicians
UTMDACC-Science Park Research Division
6 1hr seminars, Spring, 2001

Other Educational Programs

Instructor, Math 1323, Mathematics for Non-Science Majors
Texas Tech University
3 hours, 2 sections, 1966

Instructor, Math 1351, Calculus I
Texas Tech University
5 hours, Spring, 1967 & 1968; Fall, 1968 & 1969

Instructor, MaSc 583 – EE 538, Imaging
Rice University
3 hours, Spring 1979

Instructor, MaSc 521, Artificial Intelligence
Rice University Course No.

3 hours, Fall 1980

Supervisory Teaching Advisory Committees

<u>Student</u>	<u>School</u>	<u>Start Date</u>	<u>End Date</u>	<u>Degree</u>
Smalling, Richard	GSBS	3/74	6/77	Ph.D.
Marbach	GSBS	10/74	6/75	M.S.
Marburger	GSBS	2/75	9/77	Ph.D.
Starling	GSBS	4/75	3/76	Ph.D.
Davis, Edward	GSBS	12/75	9/75	Ph.D.
Maxwell, Beth	GSBS	2/76	12/80	Ph.D.
Roper	GSBS	6/76	6/78	Ph.D.
Lau, Chris	GSBS	7/76	6/79	Ph.D.
Hazen, Marion	GSBS	12/76	6/78	Ph.D.
Marbach	GSBS	3/77	12/78	Ph.D.
Morris, Catherine	GSBS	3/77	6/77	M.S.
Tifft	GSBS	3/77	6/81	Ph.D.
Anderson, S	GSBS	5/77	3/78	
Bontke, Catherine	GSBS	5/77	1/78	
Bell, Margaret	GSBS	9/77	12/79	Ph.D.
Lyons (Vedder)	GSBS	9/77	12/80	Ph.D.
Nell, Laura	GSBS	5/78	6/79	Ph.D.
Maragos	GSBS	7/78	6/80	M.S.
Maxwell (Basen)	GSBS	7/78	12/80	Ph.D.
Mendez-Marles, Amparo	GSBS	7/78	12/81	Ph.D.
Phillips, Joseph	GSBS	7/78	4/80	
Harper, John	GSBS	9/78	6/81	Ph.D.
Archer, Benjamin	GSBS	11/78	6/84	Ph.D.
Morizot, Donald	GSBS	1/79	3/80	Ph.D.
Patchen, Myra	GSBS	3/79	6/80	Ph.D.
Stallings, Raymond	GSBS	3/79	12/81	Ph.D.
Savary, Cherylyn	GSBS	5/79	6/80	Ph.D.
Tajima, Fumio	GSBS	2/80	12/81	
Ubesie	GSBS	2/80	3/81	M.S.
Graham, Steven	GSBS	6/80	6/82	Ph.D.
Edbauer	GSBS	10/80	9/83	M.S.
Engineer, Meher	GSBS	2/81	4/83	
Graur	GSBS	4/81		
Hunt	GSBS	8/81	6/82	M.S.
Merry, Diane	GSBS	8/81	6/83	M.S.
Freidrich, Christopher	GSBS	12/81	6/84	M.S.
Bencomo, Jose*	GSBS	2/82	6/82	Ph.D.
Dunn, Betty	GSBS	6/82	6/84	M.S.
Shiu, Almon	GSBS	2/83	5/88	Ph.D.
Lockwood, David*	GSBS	3/83	6/86	Ph.D.

<u>Student</u>	<u>School</u>	<u>Start Date</u>	<u>End Date</u>	<u>Degree</u>
Saitou, Naruya	GSBS	8/83	12/84	
Yusuf	GSBS	3/84	12/82	M.S.
Freidrich, Christopher	GSBS	6/84	6/86	Ph.D.
Fajardo	GSBS	10/83	5/85	
Krebs	GSBS	11/83	9/85	M.S.
Yusuf, Nasreen	GSBS	3/84	10/86	M.S.
Hashemi, Alex	GSBS	8/84	4/86	M.S.
Kirsner, Steven	GSBS	8/84	3/86	M.S.
Umeh, Richard	GSBS	8/84	2/86	M.S.
Stafford, Patrick*	GSBS	9/84	12/87	Ph.D.
Able, Charles	GSBS	3/85	6/87	M.S.
Harrison, Euphoria	GSBS	4/85	8/89	
Kaba, David	GSBS	12/85	1/87	
Wong, Pei	GSBS	12/85	6/87	M.S.
Martin, Michael	GSBS	2/86	12/86	
Followill, David	GSBS	3/86	3/88	Ph.D.
Hopwood, Vicki	GSBS	6/86	5/88	M.S.
Lee, AM	GSBS	10/86	12/87	
Reagan, Keith	GSBS	3/87	8/87	
Fasullo, Frank	GSBS	5/87	12/89	M.S.
Sadagopan, Ramaswamy	GSBS	9/87	12/89	M.S.
Henington, Linda	GSBS	1/88	12/89	M.S.
Campbell, Martin	GSBS	5/88	6/90	
Moulds, Jo Ann	GSBS	8/88	12/89	Ph.D.
Lau, J.	UHCP	6/89	8/92	Ph.D.
Tenjarla	UHCP	8/89	12/89	Ph.D.
Zaman	GSBS	12/89	8/91	M.S.
Berry	UHCP	6/90	8/91	Ph.D.
Falconer, James	GSBS	6/90	11/94	Ph.D.
Krumins, Andrejs	GSBS	6/90	4/92	
Ballester, Sergio	GSBS	7/90	8/91	
Gazda, Michael	GSBS	7/90	5/92	M.S.
Wilmington, Debra	GSBS	9/90	5/92	Ph.D.
Bruno, James	GSBS	10/90	12/92	M.S.
Chuang, Linus	GSBS	11/90	5/92	M.S.
Pramar	UHCP	1/91	8/91	Ph.D.
Gutierrez-Moreno, F.	GSBS	6/91	12/91	
del Giglio, Auro	GSBS	7/91	8/91	
Hefner, Laurie	GSBS	7/91	5/92	M.S.
Jin, Li	GSBS	7/91	5/94	Ph.D.
Kokolus, William	GSBS	9/91	8/92	Ph.D.
Merk, George	GSBS	2/92	12/93	M.S.
Chang Huang J.	GSBS	6/92	3/94	
Mathew, M.	UHCP	6/92	8/94	Ph.D.
Finkbohner, Rebecca	GSBS	7/92	5/93	M.S.

<u>Student</u>	<u>School</u>	<u>Start Date</u>	<u>End Date</u>	<u>Degree</u>
Fornage, Myriam	GSBS	7/92	2/95	
Wicklund, Catherine	GSBS	7/92	5/93	M.S.
Willoughby, Twyla	GSBS	7/92	12/94	M.S.
Luckert C.	GSBS	7/92	5/93	M.S.
Zenklusen, Jason C.	GSBS	9/92	5/96	Ph.D.
Doug, Li	GSBS	10/92	5/95	Ph.D.
Gu, Xun	GSBS	2/93	1/95	Ph.D.
Waldron, Timothy	GSBS	3/93	7/94	M.S.
Ren, Yonsheng	GSBS	4/93	5/94	M.S.
Phillips, Jason	GSBS	6/93	6/94	M.S.
Balter, Peter	GSBS	7/93	7/10/95	M.S.
Bedell B.	GSBS	7/93	8/96	Ph.D.
McKeand, Jennifer	GSBS	7/93	5/94	M.S.
Wang, W-J.	GSBS	7/93	5/97	M.S.
Chen, Ge	GSBS	9/93	5/95	Ph.D.
Etzel, Fara	GSBS	9/93	5/94	M.S.
Hall, M.	GSBS	9/93		
Jones, K.	GSBS	9/93	12/93	
Nemeth, Margit	GSBS	9/93	5/95	M.S.
Reynolds Dena	GSBS	6/94	12/95	M.S.
Andrews-Casal, Melanie	GSBS	7/94	5/95	M.S.
McKenney, Robin	GSBS	7/94	5/95	M.S.
Krushkal	GSBS	9/94		
Ozen, Mustafa	GSBS	9/94	8/99	Ph.D.
Rodin, Julia	GSBS	9/94	9/94	
Bhagwatwar, Harshal	UHCP	12/94	5/95	Ph.D.
Liang, Dong	UHCP	12/94	7/95	Ph.D.
Reeve, Donna	GSBS	1/95	5/97	M.S.
Huang, Yijun	GSBS	2/95	5/95	
Howard, Victor	GSBS	5/95	5/97	M.S.
Thompson, Stephen	GSBS	5/95	12/96	M.S.
Xiao, Y.	GSBS	6/95	6/95	
Fenyas, D.	GSBS	12/95	8/99	Ph.D.
Lochmiller	GSBS	1/96	5/96	M.S.
Page, Patricia	GSBS	1/96	5/96	
Wang, W-J.	GSBS	6/96	5/97	Ph.D.
Zacharopoulos, N.	GSBS	6/96		
Tarver, Russell	GSBS	7/96	12/10/98	M.S.
Friday, E.	GSBS	8/96	5/97	M.S.
Boyd, Robert	GSBS	9/96	5/97	M.S.
Romaine, N.	GSBS	10/96	5/97	
Olivio, Susan	GSBS	11/96	5/5/2001	M.S.
Chu, Lisa	GSBS	3/97	5/10/2001	Ph.D.
Gong, Ling	UHCP	5/97	8/98	Ph.D.
Janse, Scott	DS	5/97	5/98	M.S.

<u>Student</u>	<u>School</u>	<u>Start Date</u>	<u>End Date</u>	<u>Degree</u>
Kumi, Robert	UHCP	5/97	9/97	Ph.D.
Phadungpojna, S.	UHCP	5/97	12/97	Ph.D.
Martin, Evita R.	GSBS	8/97	8/98	M.S.
Shannon, Michael	GSBS	8/97		
Swantowski, J.	GSBS	8/97	5/98	M.S.
Trant, Melissa	GSBS	8/97	5/98	M.S.
Bolontrade, Marcela	GSBS	10/97	5/09/2001	Ph.D.,
Costello, Tracy	GSBS		8/13/98	M.S.
Martin, Erika	GSBS	10/97	8/98	M.S.
Bragg-Sitton, Shannon	GSBS	6/98	8/99	M.S.
Lemacks, Michael	GSBS	6/98	12/2000	M.S.
Cooper, Sara	GSBS	7/98	8/99	S.M.S.
Nelson, Elizabeth Ashley	GSBS	8/98	5/99	S.M.S.
Perry, Sigrid	DS	8/98	5/2000	M.S.
Strecker, Michelle	GSBS	8/98	5/99	S.M.S.
Tew, Sarah Janes	GSBS	8/98	5/99	S.M.S.
Lorenzetti, Fred	GSBS	9/98		Ph.D.
Nelson, Elizabeth	GSBS	9/98	5/99	S.M.S.
Strecker, Michelle	GSBS	9/98	5/99	M.S.
Tew, Sarah	GSBS	9/98	5/99	M.S.
Poonawalla, Aziz	GSBS	6/99	12/2001	M.S.
Steger, Theodore	GSBS	7/99	5/2000	
Gibson, Angela	GSBS	8/99	5/2000	M.S.
Stafford, R. Jason	GSBS	6/11/97		Ph.D.
Chenevert, Saleen	GSBS	9/99	5/2000	M.S.
Pixley, Eugenia	GSBS	10/99	10/10/2001	Ph.D.
Ortman, Amie	GSBS	12/99	5/2000	
Zamisch, Monica	GSBS	4/2000		Ph.D.
Moredock, Stephan	GSBS	6/2000	5/10/2003	M.S.
Papageorgiou, Paraskevi	GSBS	7/2000	12/14/2001	S.M.S.
Koch, Nicholas	GSBS	8/2000	7/11/2001	S.M.S.
Rounbehler, Robert	GSBS	9/2000	5/05/2001	M.S.
Valentine, Laura	GSBS	9/2000	5/11/2002	S.M.S.
Clark-Gay, Mary	GSBS	10/2000	8/10/2001	S.M.S.
Waller, Kendra	GSBS	10/2000	5/05/2001	S.M.S.
Wright, Laura	GSBS	10/2000	5/05/2001	S.M.S.
Poonawalla, A.	GSBS	9/2001	5/11/2002	M.S.
Seifert, J.	GSBS	11/2001	5/11/2002	S.M.S.
Costello, Tracy	GSBS	8/2001	3/2004	Ph.D.
Manzo, Stephanie	GSBS	8/2001	5/11/2002	S.M.S.
Banks, Valerie	GSBS	7/2001	5/11/2002	S.M.S.
Bayliss, Jennifer	GSBS	7/2001	5/11/2002	S.M.S.
Balter, Peter	GSBS	4/2001		Ph.D.
Browning, Matthew	GSBS	4/2001	12/14/2001	Ph.D.
Bolontrade, Marcela	GSBS	4/2001		Ph.D.

<u>Student</u>	<u>School</u>	<u>Start Date</u>	<u>End Date</u>	<u>Degree</u>
de Marval, P.	GSBS	11/2001	9/4/2003	Ph.D.
Meador, J.	GSBS	1/2002	8/10/2004	Ph.D.
Sabripour, M.	GSBS	2/2002		Ph.D.
Carter, J.	GSBS	3/2002		Ph.D.
Roundbehler, R	GSBS	9/2002	10/27/2003	Ph.D.
Darilek, S.	GSBS	9/2002	5/10/2003	S.M.S.
Poonawalla, A.	GSBS	6/2002		Ph.D.
Wilson, C.	GSBS	7/2002	5/10/2003	S.M.S.
Malone, J.	GSBS	9/2002	5/10/2003	S.M.S.
Johnson, E	GSBS	11/13/02	5/10/2003	M.S.
Zhang, Ren	GSBS	10/09/02		Ph.D.
Chung, C.	GSBS	11/13/02		Ph.D.
Green, E.	Eng	10/2004	11/2004	S.T.
Kerr, T	STA*	4/2006	8/2008	
Green, E	Eng	10/2005	11/2005	M.S.
Hetzer, J	STA*	6/2006	12/2008	Ph.D.
Gray, Michael	MAT	3/2006	5/2006	Ph.D.
Maroun, M.	MAT	3/2006	8/2006	Ph.D.
Kunkel, C.	MAT	7/2006	5/2007	Ph.D.
Johnston,, Josh	Eng	3/2007	5/2007	M.S.
Williams	Math	3/2010	8/2010	
League, G	Biol	3/2010	5/2011	
Herrera, B	Eng	6/2010	10/2010	
Carlile, Tom	STA*	6/2010	5/2014	Ph.D.
Rahardja, Gaby	STA	9/2010	5/2012	
Wei, Hua	STA	1/2011	5/2012	
Guo, H	Eng	1/2012	8/2012	

Supervisory Committees

(See above – Mentor indicated by *, all committees which have terminated with a degree are indicated by a date of award and Degree)

Direct Supervision

Tutorial and Special Projects

<u>Name</u>	<u>School</u>	<u>Date</u>	<u>Type of Project</u>
			SP = Special Project
			T = Tutorial
Liau	GSBS	Fall 74	SP
Mian	GSBS	Fall 74	SP
Smith	GSBS	Fall 74	SP
Smith	GSBS	Winter 75	SP
Smith	GSBS	Spring 75	SP

<u>Name</u>	<u>School</u>	<u>Date</u>	<u>Type of Project</u>
			SP = Special Project T = Tutorial
Maroongroge	GSBS	Summer 75	SP
Burris	GSBS	Fall 75	SP
LaRievier	GSBS	Fall 75	SP
Pruett	GSBS	Fall 75	SP
Marbach	GSBS	Fall 76	T
Ghidoni	GSBS	Summer 78	SP
Cowart	GSBS	Spring 79	T
Stallings	GSBS	Summer 79	T
Basen	GSBS	Winter 79	SP
Tajima	GSBS	Winter 80	T
Bencomo	GSBS	Spring 80	SP
Bencomo	GSBS	Summer 80	SP
Bencomo	GSBS	Fall 80	SP
Grauer	GSBS	Winter 81	T
Saitou	GSBS	Winter 83	T
Lockwood	GSBS	Winter 82	SP
Lockwood	GSBS	Spring 83	SP
Lockwood	GSBS	Summer 83	SP
Lockwood	GSBS	Fall 83	SP
Sadagopan	GSBS	Fall 87	SP
Buonomano	GSBS	Fall 87	T
Stubbens	GSBS	Spring 89	T
Gutierrez-Moreno	GSBS	Fall 90	T
Qasi	GSBS	Fall 91	T
Bruno	GSBS	Fall 91	SP
Dong	GSBS	Winter 91	T
Bedell	GSBS	Fall 92	T
Houng, Toni	GSBS	Winter 93	T
Yu, Sean	STA	Fall, 2007	T

Medical Students

N/A

Graduate Students

See Above Student Committees

Outside of Current Institution**Organization of National or International Conferences/Symposia**

1. Chairman and Local Organizer, Classification Society of North America Annual Meeting, Houston, TX, 1993.
2. Chairman, Imaging and Data Capturing Issues Session, Forum on Cancer Genomics and Informatics, Houston, TX, February 2000.

3. Chairman, Evidence Based Dentistry Workshop Session, Academy of Prosthodontics, Sante Fe, NM, May 2001.
4. Chairman and Local Organizer, Conference of Texas Statisticians, Waco, TX, March, 2007, March 2010.

Presentations at National or International Conferences Invited

1. Automated cytogenetics at the M.D. Anderson Hospital. Workshop on Automated Cytogenetics, Asilomar Conference Grounds, with S.O. Zimmerman, Pacific Grove, CA, November 30-December 2, 1975.
2. Multivariate analysis of human platelet profiles on normal and leukemia patients, with S. Agarwal, P. Roper, and B. Drewinko. Annual Joint Statistical Meetings of the American Statistical Association Session on Statistical Problems in Bioengineering, Atlanta, GA, August 25-28, 1975.
3. Automatic processing and interpretation of DNA distributions: Comparison of several techniques. Engineering Foundation's Fifth Conference on Automated Cytology, with R.A. White and B. Barlogie, Pensacola, FL, December 12-17, 1976.
4. Problems in evaluation and interpretation of quantitative leukocyte stimulation data. First Annual Immunocompetence Workshop, Galveston, TX, June 6-8, 1977.
5. Summary of data analysis approaches, with J.A. Hokanson. First Annual Immunocompetence Workshop, Galveston, TX, June 6-8, 1977.
6. Clinical methods. NCI Division of Cancer Biology and Diagnostic Radiology Workshop on Where we Stand in Image Optimization and Dose Reduction in Mammography (Contract No. 43993), Bethesda, MD, August 8, 1978.
7. Analysis of gentian violet induced chromosome instability in human subjects. Symposium of the US-USSR Collaborative Group, with W. Au and T.C. Hsu, Houston, TX, November 10, 1978.
8. Image processing considerations in the analysis of two-dimensional gel electrophoresis, with J. Guevara, Jr. and L. Rodriguez. Spring Meeting of the Biometric Society, San Antonio, TX, March 14-17, 1982.
9. Standardization of 2D PAGE gels processed by a silver stained procedure, with S. Capetillo, L.S. Ramagli, D.M. Gersten, J. Guevara, Jr., and L.V. Rodriguez. Conference on 2D Gel Electrophoresis at Argonne Laboratories, Argonne, IL, August 29-September 1, 1982.

10. Quantitative aspects of silver-stained deposition in proteins resolved in complex polyacrylamide gels, with J. Guevara, Jr., L.V. Rodriguez, L.S. Ramagli, B. Martin, and S. Capetillo. Conference on 2D Gel Electrophoresis at Argonne Laboratories, Argonne, IL, August 29-September 1, 1982.
11. Fibrinopeptide A (FpA) in Health and Disease, with B. Drewinko, D. Schmidt, P. Bollinger, M. Keating, B. Lichtiger, and J.M. Trujillo. 20th Congress of the International Society of Hematology, Buenos Aires, Argentina, September 1-7, 1984.
12. Flow cytochemical patterns in hematological diseases, with B. Drewinko, P. Bollinger, C. Brailas, S. Hickey, C. Prudhomme, and J.M. Trujillo. 20th Congress of the International Society of Hematology, Buenos Aires, Argentina, September 1-7, 1984.
13. Evaluation of the new generation of automated hematology analyzers: H6000; Coulter S Plus V; and Ortho ELT-8WS, with B. Drewinko, P. Bollinger, C. Brailas, N. Abney, and J.M. Trujillo. 20th Congress of the International Society of Hematology, Buenos Aires, Argentina, September 1-7, 1984.
14. Image processing and the statistical analysis of banded prophase chromosomes, with D.H. Lockwood, K.S. Tang, and V.H. Riccardi. Computer Graphics '86, Conference Proceedings, Technical Sessions, Vol. III, National Graphics Association, pp. 754-761, Washington, D.C., 1986.
15. Polymorphonuclear leukocyte (PMN) chemotaxis under agarose: Quantitation of population movement using image analysis, with E.S. Buescher, S.M. McIheran, and K.S. Tang. Computer Graphics '86, Conference Proceedings, Technical Sessions, Vol. III, National Graphics Association, pp. 748-753, Washington, D.C., 1986.
16. Automated 2-dimensional polyacrylamide gel analysis, with S.C. Capetillo, L.S. Ramagli, F.F. Becker, and L.V. Rodriguez. Computer Graphics '86, Conference Proceedings, Technical Sessions, Vol. III, National Graphics Association, pp. 762-769, Washington, D.C., 1986.
17. Statistical considerations and uses in image processing. Conference for Texas Statisticians, Baylor University, Waco, TX, April 8-9, 1988.
18. The use of unique band sequences in the analysis of prophase and metaphase chromosomes. EC Concerted Action of Automation of Cytogenetics, Goteborg Workshop on Prometaphase Chromosome Analysis, Goteborg, Sweden, presented by Dennis A. Johnston, S.O. Zimmerman, and David H. Lockwood and to the Danish Cancer Society, Department of Experimental Clinical Oncology, Aarhus, Denmark, March 2-3, 1991.
19. A comparative study of ploidy and proliferation by image analysis (SAMBA 4000) and flow cytometry in 78 fine needle aspirations of non-Hodgkin's lymphomas, with Wojcik, E.M., Katz, R.L., Johnston, D., Sembera, D., El-Nagg, A.K. Second International Conference on the Computerized Cytology and Histology Laboratory, Chicago, IL, March 8-11, 1992.

20. Quantitation of immunocytochemical estrogen and progesterone receptor content in fine needle aspirations of breast carcinoma using SAMBA 4000 Image Analysis System, with Auger, M., Katz, R.L., Ordonez, N.G., Fritsche, H.A., Johnston, D.A. Second International Conference on the Computerized Cytology and Histology Laboratory, Chicago, IL, March 8-11, 1992.
21. Image analysis of fine needle aspirations of lymphomas, with Katz, R.L., Wojcik, E. and Johnston, D.A. Third International Conference on the Computerized Cytology and Histology Laboratory, Chicago, IL, March 6-9, 1994.
22. Imaging of small cell non-Hodgkins lymphoma. Third International Conference on the Computerized Cytology and Histology Laboratory, Chicago, IL, March 6-9, 1994.
23. Imaging of fine needle aspirates of small cell types of non-Hodgkins lymphoma, Johnston, D.A. Third International Conference on the Computerized Cytology and Histology Laboratory, Chicago, IL, March 6-9, 1994.
24. Role of DNA quantitation and FISH in follow-up of patients with TCC, with Katz, R.L., Kidd, L., Zhang, H., Wagner, S., Caraway, N., I., Sayage-Rabie, L., Dinney, C., and Grossman, B. Fourth International Conference on the Computerized Cytology and Histology Laboratory, Chicago, IL, March 17-20, 1996.
25. Statistical Analysis of Longitudinal MRD in Pediatric ALL. Madeline Owen Memorial Workshop on ALL Residual Disease Studies, Orlando Regional Medical Center, Orlando, FL, December 6, 1996.
26. Statistical Analysis and Model Development, 5th International cooperative Study of Diagnostic Ultrasound and Prostate Cancer, Houston, TX, April 2000.
27. Fish Research Centers: The Xiphophorus Stock Center. Aquaria Fish Models of Human Diseases. Southwest Texas State University, San Marcos, September 2000.
28. Statistical Considerations in Clinical Measurements, Academy of Prosthodontics, Sante Fe, NM, May 2001.
29. Kiat-amnuay, S., Jacob, R.F., Mekayarajjananonth, T., **Johnston, D.A.**, and Powers, J.M.: Color Stability of Silicone Maxillofacial Prostheses: Effects of Microwave Sterilization, The American Academy of Maxillofacial Prosthetics, annual meeting, New Orleans, Louisiana, October 30, 2001. **First place winner**, poster presentation research competition.
30. Gettleman, L., Kiat-amnuay, S., **Johnston, D.A.**, Anderson, J.D., and Jacob, R.F.: Design of multicenter phase III clinical trial for maxillofacial prosthetics. J. Dent. Res. 83:(No. 1625). 2004.

31. Kiat-amnuay, S., Gettleman, L., Anderson, J.D., **Johnston, D.A.**, and Jacob, R.F.: Randomized Controlled Multicenter Trial Comparing Chlorinated Polyethylene with Silicone Elastomer for Facial Prosthetics. *Trans. Amer. Anaplastol. Assoc.* 27:18. 2004
32. Kiat-amnuay, S., Gettleman, L., Anderson, J.D., **Johnston, D.A.**, Jacob, R.F., Lemon JC, Chambers MS, and Khan Z: Design of a Randomized Controlled Double-Blind Phase III Clinical Trial for Maxillofacial Prostheses. *Trans. UT Research Day.* 10:65. 2004.
33. Kiat-amnuay, S., Chambers, M.S., Jacob, R.F., Anderson, J.D., **Johnston, D.A.**, Sheppard, R.A., Haugh, G.S., Gettleman, L.: Multicenter Trial of Chlorinated Polyethylene Elastomer for Maxillofacial Prosthetics. *Trans. Amer. Academy. Maxillofac. Prosthet.* 7;77: 2007.
34. Gettleman, L., Chambers, M.S., Jacob, R.F., Anderson, J.D., **Johnston, D.A.**, Sheppard, R.A., Haugh, G.S., Kiat-amnuay, S.: Multicenter Trial of Chlorinated Polyethylene Elastomer (CPE) for Maxillofacial Prosthetics. *J Dent Res* #0624, 2008, (www.dentalresearch.org).

Other Presentations

1. Non-parametric multivariate methods for discrimination in health problems. Meeting of the American Public Health Association, with S. Zimmerman, Atlantic City, NJ, November 16, 1972.
2. Goodness of fit tests in periodontal clinical trials, with S. Zimmerman. Conference on Clinical Trials of Agents Used in the Prevention/Treatment of Periodontal Diseases, Philadelphia, PA, April 1-3, 1973.
3. Techniques, problems and results in the analysis of human C-band heterochromatin by computer, with S. Zimmerman, M. Shaw and A. Craig-Holmes. Eleventh Symposium on Biomathematics and Computer Science in the Life Sciences, Houston, TX, April 3-5, 1975.
4. A general-purpose image digitizing system, with W.B. Cavnar, J. McLarty, J.J. Murdock and L. Newton. Eleventh Symposium Biomathematics and Computer Science in the Life Sciences, Houston, TX, April 3-5, 1975.
5. The use of mithramycin in pulse cytophotometry (PCP), with B. Barlogie, B. Drewinko, J. Schumann, T. Buchner, W. Gohde, and J.S. Hart. 2nd International Symposium on Pulse Cytophotometry, Munster, Germany, September 17-20, 1975.
6. Platelet size distribution profiles in normal individuals and in patients with acute leukemia, with S. Agarwal, P.R. Roper, and B. Drewinko. Joint American Society of Clinical Pathologists-College of American Pathologists Fall Meeting, Chicago, IL, September 18-26, 1975.

7. Profiles of platelet size distribution (PSD) in Acute Leukemia, with P. Roper, S. Agarwal, and B. Drewinko. 12th Annual Meeting of the American Society of Clinical Oncology, Toronto, Ontario, Canada, May 4-5, 1976.
8. Comparison of karyogenic strains of *S. Mutans* by pyrolysis-high resolution gas chromatography, with D.A. Flory, H.A. Lichtenstein, A.E. Rubenstein, L.R. Brown, and H.M. Stiles. American Association for Dental Research Conference in Las Vegas, NV, June 23-26, 1977.
9. Analysis of gentian violet induced chromosome instability in human subjects with W. Au and T.C. Hsu. Somatic Cell Genetics Conference, Pine Mountain, GA, November 28-December 1, 1978.
10. Ploidy analysis of multiple myeloma bone marrow by DNA flow cytometry and mitotic karyotyping, with Latreille, Maxwell, Franco, Barlogie, Loo, and Alexanian. ASCO Meeting, San Diego, CA, May 26-27, 1980.
11. *In vitro* DNA synthesis inhibition as a predictive test for *in vivo* response in acute leukemia, with Haq, Dosik, Mellard, Keating, and Barlogie. ASCO Meeting, San Diego, CA, May 26-27, 1980.
12. Nutritional assessment of orthopedic patients, with J.E. Jensen, T.G. Jensen, Smith, Dudrick and Butler (Verne E. Thompson Award). Western Orthopedic Association, Honolulu, HI, October, 1980.
13. Computer matching of G-banded human homologue chromosome pairs, with S. Zimmerman. 19th Annual Somatic Cell Genetics Conference, Alexandria, VA, January 25-28, 1981.
14. Nutritional assessment of orthopedic patients undergoing total hip replacement surgery, with J.E. Jensen, T.G. Jensen, T.K. Smith, and S. Dudrick (Frank E. Stinchfield Award). American Academy of Orthopedic Surgeons - The Hip Society, Las Vegas, NV, February 24, 1981.
15. Prognostic implications of tumor ploidy and proliferative activity as measured by DNA flow cytometry, with B. Barlogie, M.N. Raber, and B. Drewinko. 17th Annual Meeting of the American Society of Clinical Oncology, Washington, D.C., April 30-May 2, 1981.
16. Human monocyte-macrophages interaction with autologous T lymphocytes for granulocyte-macrophage and T lymphocyte colony-stimulating activity and burst-promoting activity elaboration: Requirement for metabolically active and Ia-like antigen-positive monocyte-macrophages, with Verma, Spitzer, Geran, Zander, Dicke, and McCredie. 10th Congress of the International Society for Experimental Hematology, Munchen, Germany, August 23-27, 1981.

17. Clinical evaluation of magnification mammography, with D.D. Paulus, A.G. Haus, J.A. Bencomo, M.M. Lindell, C.A. Hill, H.I. Libshitz. 67th Scientific Assembly and Annual Meeting of The Radiological Society of North America, Chicago, IL, November 16, 1981.
18. An approach to the resolution of confusion in human chromosome identification. Thirty-Fifth Annual Symposium on Fundamental Cancer Research, University of TX M.D. Anderson Cancer Center, Houston, TX, March 2-5, 1982.
19. Effects of change of image resolution on diagnostic accuracy in mammography, with J. Bencomo, A. Haus, D.D. Paulus, C.A. Hill, and W. Logan. Radiological Society of North America, Chicago, IL, November 28-December 3, 1982.
20. Mutagenetic evaluation of organic extracts of coal leachates, with R.G. Stahl, Jr., F.E. Arrighi, J.S. Matney, C.S. Bernard. Environmental Mutagenesis Annual Meeting, San Antonio, TX, March 3-6, 1983.
21. Scheduling effects of vinblastine containing 2-drug combinations on normal bone marrow and tumor progenitor cells, with V. Hug, G. Spitzer, B. Drewinko, H. Thames, and G. Blumenschein. 13th International Congress of Chemotherapy, Vienna, Austria, August 28-September 2, 1983.
22. Correlation of growth characteristics of human breast carcinoma with their histological grading, with R. Rashid, V. Hug, G. Spitzer, G. Blumenschein, and B. Drewinko. 4th International Conference on Human Tumor Cloning, Tucson, AZ, January 8-10, 1984.
23. Tamoxifen (TAM) decreases the cytotoxic effect of cell-cycle-active phase-specific anticancer agents in breast tumor cells, regardless of their estrogen-receptor (ER) protein content, with V. Hug, B. Drewinko, G. Blumenschein, G. Hortobagyi, J. Benvenuto, and G. Spitzer. 75th Annual Meeting of the American Association for Cancer Research, Toronto, Ontario, Canada, May 9-12, 1984.
24. Analysis of error in Laplace spectral reconstruction, with B.R. Archer, L.K. Wagner, P.R. Almond, and S.C. Bushoug. American Association of Physicists in Medicine, 27th Annual Meeting, Seattle, WA, August 11-15, 1985.
25. Side-by-side comparison of the performance of the new generation of automated hematology analyzers: H-6000; Coulter S Plus V; and Ortho ELT-WS, with B. Drewinko, P. Bollinger, C. Brailas, N. Abney, and J.M. Trujillo. American Society of Clinical Pathologists-College of American Pathologists Meeting, Las Vegas, NV, November 2-8, 1985.
26. Classification and clustering of nucleic acid flow cytometry in acute leukemia, with B. Barlogie. Fifth Annual Conference on Biomedical Engineering Symposium, University of Houston, Houston, TX, March 12-14, 1987.
27. Imaging processing at M.D. Anderson Hospital. Joint Workshop in Biomathematics sponsored by the Department of Biomathematics, UTSCC, and the Department of Medical

and Biological Informatics and the Project in Molecular Biophysics, Deutsches Krebsforschungszentrum (DKFZ), Heidelberg, Germany, September 21-25, 1987.

28. Reproducibility of proton MRS of human brain: A quantitative analysis. Ninth Annual Meeting of Society of Magnetic Resonance in Medicine, New York, NY, August 18-24, 1990.
29. The use of classification and clustering techniques in the analysis of nucleic acid flow cytometry, with R. Walters, S.A. Stass, and B. Barlogie. Joint Meeting of the Classification and Psychometric Societies, New Brunswick, NJ, June 13-16, 1991.
30. The classification of prophase and metaphase chromosomes using unique band sequences, with S. Zimmerman and D. Lockwood. Joint Meeting of the Classification and Psychometric Societies, New Brunswick, NJ, June 13-16, 1991.
31. Prognostic factors in FNAs or breast carcinoma correlate with image cytometry parameters but not with flow cytometry derived parameters. American Society of Cytology, Canada, August, 1992.
32. Growth fraction by Ki-67 image analysis give equivalent information to flow cytometrically-derived proliferation fraction in fine needle aspirates of non-Hodgkin's lymphoma. A Study of 73 Cases. International Academy of Pathology, Canada, March 14-20, 1992.
33. Glycoprotein expression in non-Hodgkin's lymphomas. An immunohisto-chemical study of 45 cases with image analysis quantitation. International Academy of Pathology, Canada, March 14-20, 1992.
34. Use of prophase chromosome unique band sequences for detecting structural anomalies in solid tumors. 5th International Workshop on Chromosomes in Solid Tumors, Tucson, AZ, January 10-12, 1993.
35. DNA content by image analysis: An accurate discriminator of malignancy in pericardial effusions. Third International Conference on the Computerized Cytology and Histology Laboratory, Chicago, IL, March 6-9, 1994.
36. A survey of clinical findings of cases of tuberous sclerosis complex. 20th Anniversary National Tuberous Sclerosis Association International Symposium, Arlington, VA, October 15-16, 1994.
37. Romsdahl, M.M., et al. Role of radiotherapy in sarcoma of the breast - A retrospective review in 40 patients. Radiological Society of North America, Chicago, IL, November 28, 1994.
38. Effect of CT scanning technique on the diagnosis of pancreatic adeno-carcinoma, an ROC analysis. Poster session. 37th Annual Meeting of the American Association of Physicists in Medicine (AAPM), Boston, MA, July 23-27, 1995.

39. The use of the discrete wavelet transform to perform high level data compression for applications in teleradiology. 61st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, IL, November 26-December 1, 1995.
40. Measurement of treatment response and implications for cure of childhood acute lymphoblastic leukemia. Second Meeting of the European Haematology Association, Paris, France, May 30, 1996.
41. Measurement of treatment response and implications for cure of childhood acute lymphoblastic leukemia. American Society of Hematology, Orlando, FL, December, 1996.
42. Measurement of treatment response during remission and implications for cure of childhood acute lymphoblastic leukemia. American Society of Hematology, Orlando, FL, December, 1996.
43. Evaluating protocol efficacy by measuring submicroscopic disease reduction during treatment for childhood ALL. American Society of Hematology, Orlando, FL, December, 1996.
44. Statistical analysis of longitudinal MRD in pediatric ALL. Madeline Owen Memorial Workshop on ALL Residual Disease Studies, Orlando, FL, Orlando, FL, December, 1996.
45. Prostate size and the detection of cancer. Annual Meeting of the American Urological Association, New Orleans, LA, February, 1997.
46. Impact on hypovolemia and hypotension on outcome in severely head-injured children. Southern Society for Pediatric Research, New Orleans, LA, February, 1997.
47. Treatment outcomes in hypoxemic pediatric patients with viral lung disease comparing conventional mechanical ventilation to inhaled nitric oxide. Poster presentation at the ATS 1998 International Conference, Chicago, Illinois, April 24-29, 1998.
48. Quantification of Immunohistochemical Staining by Color Deconvolution. Poster presentation at the USCAP, Atlanta, Georgia, March 3-6, 2001.

Seminar Invitations from Other Institutions

1. Problems, techniques, and procedures in the analysis of human chromosomes by computer, Rice University Bioengineering Department, Houston, TX, July 14, 1975.
2. Classification of cell surface membranes. St. Jude Children's Hospital, Memphis, TN, June 17, 1977.

3. Mathematics in a cancer institute? A sampling of USE and current directions. Mathematics and Statistics Colloquium, University of Southwestern Louisiana, Lafayette, LA, March 8, 1985.
4. Mathematics in a cancer institute? A sampling of USE and current directions. NASA/JSC and UH/CL Mathematical Sciences Joint Seminar Series, Houston, TX, September 26, 1984.
5. Quantitative analysis of one and two dimensional gels. Baylor College of Medicine Houston, TX. October 10, 1988.
6. Confidence intervals for inverse prediction using Monte Carlo techniques. Department of Pharmaceutics University of Houston, Houston TX, December 3, 1991.
7. Confidence intervals for inverse prediction using Monte Carlo techniques. Department of Statistics, Rice University, Houston, TX, September 14, 1992.
8. Minimal Residual Disease in Juvenile Acute Lymphocytic Leukemia: an anatomy of a clinical collaboration, Baylor University Mathematics Colloquium, Waco, TX, August 23, 2001.
9. Imaging of Macroarrays: Considerations before the statistics are applied, Baylor University Mathematics Colloquium, Waco, TX, August 24, 2001.

Lectureships and Visiting Professorships

N/A

Other Presentations (State/local)

1. A quick graphical comparison method for survival distributions. Biomathematics Seminar, M.D. Anderson Hospital and Tumor Institute, Houston, TX, March 14, 1974.
2. Techniques, problems and results in the analysis of human C-band heterochromatin by computer. Biomathematics Seminar, M.D. Anderson Hospital and Tumor Institute, Houston TX, March 6, 1975.
3. Image digitizing automatic chromosome analysis and C-bands. Rice University, Department of Mathematical Sciences, Houston, TX, April 16, 1975.
4. Screening for breast cancer. Biomathematics Seminar, University of TX M.D. Anderson Hospital and Tumor Institute, Houston, TX, May 29, 1975.
5. Multivariate analysis of human platelet profiles on normal and leukemia patients Biomathematics Seminar, University of TX, M.D. Anderson Hospital and Tumor Institute, Houston, TX, September 4, 1975.
6. Analyses of FMF curves using CONVEX. SETCASA Meeting, College Station, TX, April 22, 1976.

7. Automated methods in cytogenetics.. Medical Genetics Section at University of TX M.D. Anderson Hospital and Tumor Institute, Houston, TX, May 26, 1976.
8. Automated methods in cytogenetics. Department of Mathematics, The University of Houston, Houston, TX, October 27, 1976.
9. Methods of analysis of DNA distribution. Biomathematics Seminar, University of TX, M.D. Anderson Hospital and Tumor Institute, Houston, TX, February 10, 1977.
10. The automation of cytogenetics. Cell Biology Section of the Department of Biology University of TX, M.D. Anderson Hospital and Tumor Institute, Houston, TX August 10, 1977.
11. Cancer research at M.D. Anderson Hospital. San Jacinto Junior College (Nov. 30, 1977), Cancer. Questions and Answers, Clear Lake City Elementary, (October 1978-80). Cornelius Elementary (October 1981, Spring, 1983, 1984, 1985, 1986, 1987, 1988, 1989). Bellaire High School, (April, 1982), Clear Lake Intermediate (February, 1981), Clear Lake High School (October 1983; February, 1984; April, 1987, April, 1988), Furr High School (April, 1988), Reagan High School (November, 1988).
12. The MODCOMP image processing system. MODCOMP User's Group meeting, Houston, TX, November, 1980.
13. Analysis of results of clinical studies: Tests of differences between treatment (binary or quantitative response); use of regression methods. Fundamentals of Oncology - Part II. Course presented to residents of University of TX M.D. Anderson Cancer Center, Houston, TX, April 4, 1980.
14. Image processing of electron micrographs of cancer and normal cells. Department of Pathology, University of Texas M.D. Anderson Hospital, Houston, TX, March 29, 1983.
15. Statistical considerations in the design of dietary studies. Dietary Journal Club, University of TX Medical School, Houston TX, June 7, 1983.
16. An introduction to easy nonlinear regression. UTHERCC Users Group, Houston, TX, March 4, 1985.
17. What is Biomathematics? Science Awareness Day, Cornelius Elementary, Spring, TX, 1987-1992
18. Method comparison. Friday Laboratory Medicine Conference, University of Texas M.D. Anderson Cancer Center Houston, TX, March 27, 1987.
19. A plan for visual information management. Statistical Users Group Meeting, University of TX at Houston Education and Research Computing Center and School of Public Health, Houston TX, April 20, 1990.

20. Analysis of 1-D and 2-D gels. University of TX M.D. Anderson Cancer Center, Science Park Division, Smithville, TX, September 25, 1992.
21. Sample size determination: Or how I got my grant and learned to live with statistics. Faculty Seminar, University of TX M. D. Anderson Cancer Center, Science Park Research Division, Smithville, TX, June 27, 1994.
22. Survival and proportional hazards analysis especially as applied to animal incidence trials. Faculty Seminar, University of TX M. D. Anderson Cancer Center, Science Park Research Division, Smithville, TX, July 11, 1994.
23. Analysis of pharmacokinetic data. Faculty Seminar, University of TX M. D. Anderson Cancer Center, Science Park Research Division, Smithville, TX, July 18, 1994.
24. Digital image processing of color images. Faculty Seminar, University of TX M. D. Anderson Cancer Center, Science Park Research Division, Smithville, TX, July 25, 1994.
25. Image processing at SPRD. Faculty Seminar, University of TX M. D. Anderson Cancer Center, Science Park Research Division, Smithville, TX, August 22, 1994.
26. Imaging Principles, Houston Forum on Cancer Genomics and Informatics, Houston, TX, February 2000.
27. Imaging Considerations in Microarray Analysis, University of Texas M.D. Anderson Cancer Center, Department of Biostatistics/Bioinformatics Seminar, March 2001.

PROFESSIONAL MEMBERSHIPS/ACTIVITIES

Professional Society Activities

American Statistical Association, 1972-Present
 American Association for the Advancement of Science, 1986-1992
 Association for Computing Machinery, 1986-1995
 Classification Society of North America, 1986-Present
 IEEE, 1986-Present
 Mathematical Association of America, 2002-Present

Local/State N/A

National and International
 N/A