

JAMES E. BOWMAN, MD, FCAP, FASCP

Curriculum Vitae

- Education: Howard University, Washington, D.C., B.S., June 1943  
Howard Medical School, Washington, D.C., M.D., June 1946  
Freedmen's Hospital, Washington, D.C.  
Internship: July 1946-1947  
St. Luke's Hospital, Chicago, Illinois  
Residency in Pathology: August 1947-October 1950
- Present Position: Professor Emeritus, Departments of Pathology, Medicine, Committee on Genetics, Committee on African and African-American Studies and the College; Senior Scholar, MacLean Center for Clinical Medical Ethics, University of Chicago
- Honors: Alpha Omega Alpha Honor Medical Society  
Special Research Fellow, National Institutes of Health, Department of Biometry and Genetics (Galton Laboratory) University College, London, Professor, L. S. Penrose, FRS, 1961-1962  
CINE Golden Eagle Award 1977 and 1978 for Production of Film: Sickle Cell, Fundamentals with Mallory Pearse and Eugene Goldwasser, Ph.D.  
Fellow, The Hastings Center, Institute of Society, Ethics and the Life Sciences, 1979-  
National Lecturer, Sigma Xi (1977-1979)  
Senior Fellow, Henry J. Kaiser Family Foundation, Center for Advanced Study in the Behavioral Sciences, Stanford, California, Sept. 1981-1982  
Distinguished Service Alumni Award, Howard University School of Medicine, 1982  
Alumni Award for Distinguished Postgraduate Achievement in the Fields of Medical Research and Medical Education, Howard University, 1983.  
Gold Key Award, University of Chicago, Biological Sciences Alumni Association, 1992  
Bowman Society, Lectureship Series, Established in 2005, By The University of Chicago Pritzker School of Medicine, Funded by The Division of Biological Sciences, The University of Chicago

Professional Experience

Chairman, Department of Pathology, Provident Hospital,  
Chicago, Illinois, 1950-1953

Chief, Pathology Branch, Captain US Army Medical Corps, Medical Nutrition  
Laboratory, Fitzsimons Army Hospital, Denver, Colorado, 1953-1955

Chairman, Department of Pathology, Shiraz Medical Center, Nemazee Hospital,  
Shiraz, Iran, 1955-1961

Visiting Associate Professor, Pathology, Faculty of Medicine, University of  
Shiraz, Shiraz, Iran, 1957-1960; Professor and Chairman, 1960-61.

Medical Director of the Blood Bank, The University of Chicago, 1962-1972

Director of Laboratories, The University of Chicago, Jul. 1, 1971-Sept. 1, 1981

Director, Comprehensive Sickle Cell Center, University of Chicago, June 1973-  
December 1984

Assistant Dean of Students for Minority Affairs, Division of Biological Sciences,  
University of Chicago, 1986-1990

Assistant Professor, Departments of Medicine and Pathology, University of  
Chicago, 1962-1967 (Committee on Genetics, 1963-67) Associate Professor,  
1967-1971

Professor, Departments of Pathology, Medicine, Committee on Genetics 1971-  
1993; College-1982-1993; Committee on African and African American Studies-  
1986-1993, University of Chicago

Professor Emeritus, Departments of Pathology, Medicine; Committee on  
Genetics; Committee on African and African American Studies and the College,  
University of Chicago, 1993-

#### State Medical

Certification: Illinois, May 1948

Specialty: American Board of Pathology: Pathologic Anatomy, Certification:  
October 1951; Clinical Pathology, 1952

#### Scientific Societies:

Fellow, College of American Pathologists  
Fellow, American Society of Clinical Pathologists  
Fellow, Royal Society of Tropical Medicine and Hygiene  
American Association for the Advancement of Sciences  
New York Academy Sciences  
International Congress of Hematology  
American Society of Human Genetics  
American Association of Blood Banks  
The American Genetic Association  
Sigma Xi

Central Society for Clinical Research  
 American Society of Hematology  
 American Association of Physical Anthropologists  
 Clinical Laboratory Physicians and Scientists  
 Human Biology Council, 1973-1976

Editorial  
Boards:

Laboratory Medicine, 1973-1976

Advisory Editor, Grolier, (Scholastic Inc.) 1978-  
Present

University  
Chicago:

Liaison Officer for International Activities, the University of  
of Chicago, to the Association of American Medical  
Colleges, 1969-1971

Committee on Appointment Inequities, 1971-1975

Representative, The University of Chicago, to the National  
Council for International Health, 1977

Board of Precollegiate Education, 1980-1984

Faculty Committee on Minority Student Concerns, 1980-1984

Council of The University Senate, 1971-1974

Local Appointments

Board of Directors, Mid-America Chapter, American Red Cross, 1965-1968

Medical Advisory Committee, Mid-America Chapter,  
American Red Cross, 1965-1975

Board of Directors, Metropolitan Chicago Blood Council,  
1967-1976

Inspector, Midwestern Region, American Association of  
Blood Banks Inspection and Accreditation

Consultant, US Army Medical Research & Development  
Command, Rush Presbyterian-St. Luke Medical Center  
Laboratory for Tropical Diseases, Stateville Penitentiary,  
Joliet, Illinois, 1971-1975

Local Appoint-  
ments:  
(Cont'd)

Blood Bank Program Consultant, State of Illinois, Department of Public Health, Springfield, IL, 1971-1979

Chairman, Medical Advisory Committee of the Mid-America Chapter of the American Red Cross, Chicago, Illinois, 1973

Medical Advisory Committee of the Metropolitan Chicago Chapter of The National Foundation March of Dimes, Chicago, Illinois, 1973-1975

President, Metropolitan Chicago Blood Council, 1974-1975

Medical Exhibits Advisory Committee of the Museum of Science and Industry, Chicago, 1977-1980

Member, Cancer Information Service Advisory Committee, Illinois Cancer Council, 1983-1984

Member, Genetic and Metabolic Disease Advisory Board of the Illinois Department of Public Health, 1984-

Member, St. Anne's Hospital Sickle Cell Advisory Committee, Chicago, 1986-1987

National Appoint-  
ments:

Consultant in Pathology, Division of Hospital and Medical Facilities, U.S. Department of Health, Education and Welfare, Public Health Service, 1967-1973

Medical Advisory Committee, American National Red Cross Blood Program, Washington, DC 1971-1974

Special Review Committee, Sickle Cell Disease Program, National Heart and Lung Institute, National Institutes of Health, Bethesda, MD, 1972

Food and Drug Administration Diagnostic Products Advisory Committee, Department of Health, Education and Welfare, Public Health Service, 1972-1976

Chairman, Policy Board, Sickle Cell Vaso-occlusive Clinical Trials, Sickle Cell Disease Branch, Heart and Lung Institute, National Institutes of Health, Bethesda, MD, 1972-1973

American Hospital Association (AHA) Advisory Panel on National Blood Banking Programs, American Association, Chicago, IL, 1972-1974

Sickle Cell Disease Screening and Education Clinic Review Committee, Department of Health, Education and Welfare, Health Services and Mental Health Administration, 1973

Chairman, Ad Hoc Review Committee, Evaluation of Laboratory Diagnostic Techniques for Sickle Cell Disease, National Heart and Lung Institute, National Institutes of Health, Bethesda, MD, 1973

Executive Committee, Hemolytic Anemia Study Group, National Heart and Lung Institute, National Institutes of Health, Bethesda, MD, 1973-1975

Department of Defense, Hemoglobinopathy Policy Review Advisory Committee, Washington, D.C., 1974

Chairman, Subcommittee on Pathology and Hematology, Diagnostic Products Advisory Committee, Food and Drug Administration, Public Health Service, 1975-1976

Committee on Social Issues, American Society of Human Genetics, 1975-1978

Member, Health Sciences Section, African-American Scholars Council, Inc., 1975-1978

Comprehensive Sickle Cell Centers ad hoc Review Committee, Department of Health, Education and Welfare, Public Health Service, National Institutes of Health, 1975

Center for Disease Control Task Force on Abnormal Hemoglobins and Thalassemia (Chairman), Department of Health, Education and Welfare, Public Health Service, Center for Disease Control, Atlanta, GA, 1975

National Endowment for the Humanities Lecturer, Human Genetics and Society: Historical, Ethical, and Legal Issues, July 7, 1980-August 1, 1980

National Endowment for the Humanities Lecturer, Human Genetics: Ethics and Public Policy, July 6, 1981-July 31, 1981

Member, Animal Resources Review Committee, Department of Health, Education and Welfare, Public Health Service, National Institutes of Health, Bethesda, MD, July 1979-1983

Working Group Ethical Legal and Social Issues (ELSI), Human Genome Program, NIH, 1995-1998

Chairman, Animal Resources Review Committee, Department of Health, Education and Welfare, Public Health Service, National Institutes of Health, Bethesda, MD, July 1982-1983

Chairman, Research Centers in Minority Institutions  
Ad Hoc Review Committee Animal Resources Branch  
NIH, 1985 and July 1986

Advisory Panel, Office of Technology Assessment  
(Congress), Human Gene Therapy Workshop, 1984

Advisory Panel, Office of Technology Assessment  
(Congress), Applications of Biotechnology to Test  
for Human Genetic Disorders, 1986

National Cancer Institute Ad Hoc Contract Review Group,  
1986

Member, Evaluation and Data Committee, Council on  
Regional Genetics Network, 1986-1991

NIH Panel on Cystic Fibrosis, 1990

American Society of Human Genetics Committee on  
Cystic Fibrosis, 1990-1992

National Sickle Cell Disease Advisory Committee, NIH,  
1990-1995

Chairman, Special Review Committee, Request for  
Proposals, Cystic Fibrosis Programs, NIH, 1991

Blood Products Advisory Committee, Center for Biologics  
Evaluation and Research, FDA, 1992-1995

Hemoglobinopathies, Bone Marrow Transplantation Data  
and Safety Monitoring Board, NHLBI, NIH, 1993-

Board of Directors, Institute of Genetics, Law & Ethics,  
Illinois Masonic Medical Center and DePaul University  
College of Law, Chicago, 1994

Chairman, NIH Ad Hoc Review Committee, NCHGR-ELSI,  
Genetic Testing for Hereditary Breast and Colon Cancer,  
1994

Ethical, Legal, and Social Implications (ELSI) Working Group  
NIH-DOE National Center For Human Genome Research, 1995-1997

International Appointments:

Consultant, Genetics Program, Atomic Energy Commission.  
Mexico, 1964-1966

Scientific Advisory Committee for Scientific  
Collaboration between the United States and Iran, 1968

Consultant to United States Naval Medical Research Unit III,  
Egypt, and Ethiopia, 1969-1970

Consultant, Federal Ministry of Health of Nigeria, 1977

Visiting Professor, University of Lagos Medical School,  
Lagos, Nigeria, Nov.-Dec. 1975; Feb.-Mar. 1977

Member, Panel of International Consultants,  
International Medical Diagnostic and Research  
Centre(s), Lagos, Nigeria, 1983-1986

Consultant, Laboratory Services Medical Corps Defence  
Forces, United Arab Emirates, 1987

Consultant, Ministry of Health and Medical Education,  
Islamic Republic of Iran, November, December, 1992

Formerly, Selection Committee, Prize Fellows, MacArthur  
Foundation

#### Corporate Board

Board of Directors, Ariel Capital Management, Inc.,  
Boards: Chicago, 1983-

#### PUBLICATIONS:

1. Grossman MI, Becker GH, and Bowman JE. The Effect of Heparin in Experimental Fat Embolism. Medical Nutrition Lab 1953; Report #117.
2. Calloway DH, Grossman MI, Bowman JE, and Calhoun W. The Effect of Previous Level of Protein on Wound Healing on Metabolic Responses to Injury 1955; 37:935-936.
3. Bowman JE. The Pathology of Starvation and Malnutrition in North Korean and Chinese Communist Prisoners of War. Medical Nutrition Lab Report 1955.
4. Walker DG and Bowman JE. Glutathione Stability of Erythrocytes in Iranians. Nature 1959; 184:1325.
5. Walker DG and Bowman JE. In Vitro Effect of Vicia faba Extracts Upon Reduced Glutathione of Erythrocytes. Proc.Soc.Exp.Biol.&Med. 1960; 103:476-477.

6. Bowman JE and Walker DG. An In Vitro Effect of Pollen, Pistils and Whole Beans of *Vicia faba* on Reduced Glutathione of Erythrocytes. Proceedings, VIIIth International Congress of Hematology, Tokyo 1960; 1285-1289.
7. Bowman JE and Walker DG. Action of *Vicia faba* on Erythrocytes: Possible Relationship to Favism. *Nature* 1961; 189:555-556.
8. Bowman JE and Walker DG. Fava Bean, Sensitives and Clinical History. Proceedings VIIth Annual Meeting, Persian Gulf Medical Society. Saudi Arabia 1961.
9. Bowman JE and Walker DG. Favism: Theoretical Consideration Proceedings XIth Middle East Medical Assembly, American University of Beirut, Beirut, Lebanon 1961.
10. Bowman JE and Walker DG. Virtual Absence of Glutathione Instability of the Erythrocytes Among Armenians in Iran. *Nature* 1961, 191:221-222.
11. Walker DG, Zia M and Bowman JE. Three Differing Cases of Glycogen Storage Disease. *Archives of Diseases in Childhood* 1961; 36:432-438.
12. Campbell CG and Bowman JE. *Enterobius vermicularis* Granuloma of Pelvis. *Amer.Jnl.Obst.&Gyn.* 1961; 81:256-258.
13. Bowman JE, Mittwoch U and Schneiderman LJ. Persistence of Mucopolysaccharide Inclusions in Culture of Lymphocytes from Patients with Gargoylism. *Nature* 1962; 195:612-613.
14. Bowman JE and Walker DG. The Origin of Glucose-6-Phosphate Deficiency in Iran: Theoretical Considerations. Proceedings, Second International Conference on Human Genetics, Rome 1963: 1:583-586.
15. Bowman JE and Smith SM. Theoretical Evidence of an Autosomal Modifying Gene Pair in Glucose-6-Phosphate Dehydrogenase-Deficient Families. *Annals of Human Genetics* 1963; 26:213-218.
16. Bowman JE. Comments on Abnormal Erythrocytes and Malaria. *Trop.Med.&Hyg.,Suppl.* 1964; 13:159-161.
17. Bowman JE. Haptoglobin and Transferring Differences in Some Iranian Populations. *Nature* 1964; 201:88.
18. Bowman JE and Frischer H. Malaria, Glucose-6-Phosphate Dehydrogenase Deficiency and Sickle Cell Trait. *Brit.Med.J.* 1964; 1:1378.
19. Frischer H, Carson PE and Bowman JE. Methemoglobin Reduction in Intact G-6-PD Deficient and HbM Erythrocytes. Proc. 10th Congr. Int.Soc.Blood Transf., Stockholm 1964; 568-577.



20. Bowman JE, Carson PE, Frischer H, Kahn M and Ajmar F. Capillary Tube Nile Methemoglobin Reduction Test for G-6-PD Deficiency. Proc. 10th Congr.Int.Soc.Blood Transf., Stockholm 1964; 592-597.
21. Bowman JE, Brewer GJ, Frischer H, Eisenstein RB and Bayaracki C. A Re-Evaluation of the Relationship between Glucose-6-Phosphate Dehydrogenase Deficiency and the Behavioral Manifestation of Schizophrenia. J.Lab.&Clin.Med. 1966; 65:222-227.
22. Krill AE, Bowman JE and Schneiderman A. An Investigation of So-Called X-linked Errors on the Ischiara Plates. Annals of Human Genetics 1966; 29:253-256.
23. Bowman JE, Frischer H, Gower MK, Carson PE and Ajmar F. The Characterization and the Genetics of Starch-Gel Electrophoresis Patterns of a Human Erythrocytic Kinase. Proceedings, IIIrd International Congress of Human Genetics, Chicago 1966.
24. Bowman JE, Carson PE, Frischer H and deGaray AL. The Genetics of Starch-Gel Electrophoresis Variants of Human-6-Phosphogluconic Dehydrogenase: Population and Family Studies in the United States and Mexico. Nature 1966; 210:811-813.
25. Carson PE, Ajmar F, Hashimoto F and Bowman JE. Electrophoretic Demonstration of Stromal Effects of Haemolysate Glucose-6-Phosphate Dehydrogenase and 6-Phosphogluconic Dehydrogenase. Nature 1966; 210:813-815.
26. Bowman JE. Blood Anthropology: Principles of Collection and Statistical Analysis of Data. International Pathology 1966; 7:92-97.
27. Bowman JE, Frischer H, Ajmar F, Carson PE and Gower MK. Population, Family and Biochemical Investigation of Human Adenylate Kinase Polymorphism. Nature 1967; 214:1156-1158.
28. Bowman JE. Glucose-6-Phosphate Dehydrogenase Deficiency in Kuwait: (Letter to the Editor). Am.J.Hum.Gen. 1967; 19:460.
29. Ziai M, Amirhakimi GH, Reinhold JG, Tabatabee M, Gettner M and Bowman JE. Malaria Prophylaxis and Treatment in G-6-PD Deficiency. An Observation on the Toxicity of Primaquine and Chloroquine. Clin. Ped. 1967; 6:242-243.
30. Bowman JE. G-6PD Deficiency and Malaria. Lancet 1967; 1:1158.
31. Bowman, JE, Brubaker R, Frischer H and Carson PE. Characterization of Enterobacteria by Starch-Gel Electrophoresis of Glucose-6-Phosphate Dehydrogenase and Phosphogluconate Dehydrogenase. J.Bact. 1967; 94:544-551.
32. Bowman JE and Ronaghy H. Hemoglobin Glucose-6-Phosphate

- Dehydrogenase, Phosphogluconate Dehydrogenase and Adenylate Kinase Polymorphism in Moslems in Iran. *Am.Phys.Anthrop.* 1967; 27:119-124.
33. Berkel I, Say B, Bowman JE and Carson PE. Types of Erythrocytic Glucose-6-Phosphate Dehydrogenase in Normal and in Deficient Turkish Subjects. *Turkish J.Ped.* 1967; 9:13-17.
  34. Bowman JE. Human Red Cell Enzyme Variation. Proc. 16th Iranian Medical Congress, Ramsar, Iran, Sept. 1967.
  35. Bowman JE. Splenomegaly and the Sickle-Cell Trait. *Lancet* 1968; 1:1200.
  36. Shih LY, Hsia DY, Bowman JE, Shih S and Shih P. The Electrophoretic Phenotypes of Red Cell 6-Phosphogluconate Dehydrogenase and Adenylate Kinase in Chinese Populations. *Am.J.Hum.Gen.* 1968; 20:474.
  37. Bowman JE. Glucose-6-Phosphate Dehydrogenase Deficiency and Falciparum Malaria. 8th Int.Congr.Trop.Med.&Hyg., Tehran, Iran, Sept. 1968.
  38. Ziai M, Bowman JE, McMillan CW and Tabatabai M. Leishmaniasis in Southern Iran: The Occurrence of all Three Varieties in the Same Area. *Trans.Roy.Soc.Trop.Med.&Hyg.* 1968; 62:661-671.
  39. Bowman JE, Carson PE and Frischer H. The Segregation of One Family of Three Alleles at the Glucose-6-Phosphate Dehydrogenase Locus. *Hum. Hered.* 1969; 19:25-35.
  40. Bowman JE. Letter to the Editor, *Middle East Journal* 1969; 23:228.
  41. Krill A, Bowman JE and Woodbury G. X-Chromosomal Linked Sutural Cataracts. *Am.J.Ophthal.* 1969; 68:867.
  42. Bowman JE. Blood: Individuality of Human Blood. *Encyclopedia Britanica Inc.* 1970; 3:799.
  43. Bowman JE. Sickle Cell Disease. *Encyclopedia Americana* 1970; 9: 168-177.
  44. Bowman JE, Carson PE, Frischer H, Powell RD, Colwell E, Legters L, Cottingham A, Boone S and Hiser W. Hemoglobin and Red Cell Enzyme Variation in Some Populations of the Republic of Vietnam with Comments on the Malarial Hypothesis. *Am.Jnl.Physcl.Anthrop.* 1971; 34:313.
  45. Bowman JE, Carson PE and Rieckmann KH. Published Malaria Standards Misleading and Dangerous. *Lab.Med.* 1971; 2:19-20.
  46. Willerson WD, Rieckman KH, Kass L, Carson PE, Frischer H and Bowman JE. The Chemoprophylactic Use of Diformyl Diaminodiphenyl Sulfone (DFD) in Falciparum Malaria. *Am.J.Trop.Med.&Hyg.* 1972; 21:138-143.
  47. Bowman JE. Ethical Issues in Genetic Screening. *NEJM* 1972; 287:204-205.

48. Bowman JE. Detecting Sickie Haemoglobins. *NEJM* 1972; 3:644.
49. Bowman JE. Mass Screening Programs for Sickie Hemoglobin: A Sickie Cell Crisis. *JAMA* 1972; 222:1650.
50. Frischer H, Carson PE, Bowman JE and Rieckmann KH. Visual Test for Erythrocytic Glucose-6-Phosphogluconic Dehydrogenase and Glutathione Reductase Deficiencies. *J.Lab&Clin.Med.* 1973; 81:613.
51. Frischer H, Bowman JE, Carson PE, Rieckmann KH, Willerson D and Colwell EJ. Erythrocytic Reductase, Glucose-6-Phosphate Dehydrogenase and Deficiencies in Populations. *J.Lab&Clin.Med.* 1973; 81:603.
52. Bowman JE. Sickie Cell Screening-Medico-Legal, Ethical, Psychological and Social Problems: A Sickie Cell Crisis. *Proceedings National Conference on the Mental Health Aspects of Sickie cell Anemia.* Nashville, TN, 1972.
53. Willerson D, Kass L, Carson PE, Frischer H, Richard L and Bowman JE. Chemotherapeutic Results in a Multi-Drug Resistant Strain of *Plasmodium falciparum* Malaria from Vietnam. *Military Med.* 1974; 139:175-183.
54. Frischer H, Nelson R, Noyes C, Carson P, Bowman J, Rieckmann K, Willerson D and Ajmar F. NAD(P)ase Deficiency in Human Erythrocytes and Alteration of Cytosol NADH-Methemoglobin Diaphorase by Membrane NADase Activity (polyacrylamide gel electrophoresis, glutathione reductase, dichlorophenol idophenol). *Proc.Nat.Acad.Sci.* 1973; 70:2406-2410.
55. Hartz J, El Maghrabi R, Namen A, Gabr M, Bowman J, Carson P, Ajmar F and Kamel K. Enzyme Studies in Glucose-6-Phosphate Dehydrogenase Deficient Erythrocytes from Egyptians, Italians, and American Negroes (Pyrophosphatase, 6-Phosphogluconate Dehydrogenase Catalase and Superoxide Dismutase Assays). *Clinica Chemica Acta* 1973; 48:117-126.
56. Frischer H and Bowman JE. Hemoglobin E, an Oxidatively Unstable Mutation. *J.Lab&Clin.Med.* 1975; 85:531-539.
57. Bowman JE. Social Implications of Sickie Cell Programs. *Urban Health* 1974; 3:16.
58. Bernstein SC and Bowman JE. The Demonstration of Asymmetric Hemoglobin Hybrids by Polyacrylamide Electrophoresis. *Biochim. et Biophysica Acta* 1976; 427:512-519.
59. Bowman JE. Ethical, Legal and Humanistic Implications of Sickie Cell Programs. *INSERM* 1975; 44:353-378.
60. Bowman JE and Bernstein SC. On the Physical and Intellectual Develop-

- ment of Black Children with and without Sickle Cell Trait. (Letter to the Editor). *Pediatrics* 1977; 59:640-641.
61. Bowman JE. Population Genetics of Abnormal Hemoglobins in the United States. In: BK Adedevah (ed) *Haemoglobinopathy "Sickle Cell", Reproduction and Contraception*. (in press).
  62. de Garay AL, de Gallegos LD and Bowman JE. Relaciones familiares en el pedigree de los Lancandones de Mexico. *Anales del INAH, Epoca 7a:TV*, 1974-1975; 271-340.
  63. Bernstein SC, Bowman JE and Swift HH. Modification of the Acid Elution Technique for Quantitation of Fetal Hemoglobin in Individual Erythrocytes. *Hemoglobin* 1977; 1:313-331.
  64. Shaw RF, Bloom RW and Bowman JE. Hemoglobin and the Genetic Code: Evolution of Protection Against Somatic Mutation. *Journal of Molecular Evolution* 1977; 9:225-230.
  65. Bowman JE. Genetic Screening Programs and Public Policy, *Phylon* 1977; 38:117-142.
  66. Kanel CG, Davis I and Bowman JE. "Naturally-Occurring" Anti-K1: Possible Association with Mycobacterium Infection. *Transf.* 19878; 18:472-473.
  67. Bowman JE. Social, Legal and Economic Issues in Sickle Cell Programs. In: JJ Buckley, Jr (ed) *Genetics Now: Ethical Issues in Genetic Research*. Washington, University Press of America 1978; 141-171.
  68. Bernstein SC, Bowman JE and Kaptue Noche L. Genetic Variation in Cameroon. Thermostability Variants of Hemoglobin and of Glucose-6-Phosphate Dehydrogenase. *Biochemical Genetics* 1980; 18:21-37.
  69. Bernstein SC, Bowman JE and Kaptue Noche L. Interaction of Sickle Cell Trait and Glucose-6-Phosphate Dehydrogenase Deficiency and Falciparum Malaria. *Hum.Hered.* 1980; 30:7-11.
  70. Bernstein SC, Bowman JE and Kaptue Noche L. Population Studies in Cameroon. Hemoglobin S, Glucose-6-Phosphate Dehydrogenase Deficiency, and Falciparum Malaria. *Hum.Hered.* 1980; 30:251-258.
  71. Bernstein SC and Bowman JE. G6PD/Malaria Hypothesis: A Balanced or Transient Polymorphism. (Letter to the Editor). *The Lancet* 1980; 1:485.
  72. Bowman JE. Is a National Program to Prevent Sickle Cell Disease Possible? *Amer.J.Ped.Hematology/Oncology* 1983; 5:No.4, 367-372.
  73. Bowman JE. Hemoglobinopathies in the United States. In: JE Bowman (ed) *Distribution and Evolution of Hemoglobin and Globin Loci*. New York, Elsevier/North Holland 2983; IV:253-260.

74. Bowman JE. Prenatal and Neonatal Diagnosis of Sickle Cell Disease and Thalassemia. Proceedings, II<sup>es</sup> Journees Medicales de Yaounde, Yaounde, Cameroun, 1983.
75. Bowman JE. Identification and Stigma in the Workplace. In: JQ Weiss, BA Bernhardt and NW Paul (eds) Genetic Disorders & Birth Defects: in Families and Society: Toward Interdisciplinary Understanding. New York, Birth Defects Original Articles Series, March of Dimes Birth Defects 1984; 20:223-239.
76. Bowman JE and Bloom RW. Genic Interaction and Falciparum Malaria. Proc.Int.Conf. on Sickle Cell, Lagos, 1985.
77. Bowman JE, Bloom R, Chen SS, Webber BB, Wilson JE, Kutlar F and Huisman THJ. HB Chicago or  $\alpha_2^{136}$  (H19)Leu--> Met  $\alpha_2$ : and  $\alpha$ -<sup>G G</sup>-globin Gene Arrangement in a Black Family. Hemoglobin 1986; 10:495-505.
78. Bowman JE. Legal and Ethical Issues in Newborn Screening. Pediatrics 1989; 83:894-896.
79. Bowman JE. Scope of the Problem (Keynote Address). In: N Paul, and L Kavanaugh (eds) Genetic Services for Underserved Populations. National Center for Education in Maternal and Child Health, Washington, DC 1990, pp. 3-20.
80. Bowman JE. Invited Editorial: Prenatal Screening for Hemoglobinopathies. Am.J.Hum.Genet. 1991; 48:433-438.
81. Bowman JE. The Plight of Poor African-Americans: Public Policy on Sickle Hemoglobins and AIDS. In, African-American Perspectives on Biomedical Ethics, pp. 173-188. Eds. Flack, HE and Pellegrino, ED. Washington, DC; Georgetown University Press, 1992.
82. Bowman JE 1993. Screening newborns for Duchenne Muscular Dystrophy: Acceptable to parents. (Editorial) BMJ 306:349.
83. Bowman JE. 1994. Genetic screening: Towards a new eugenics? (pp.165-81) In "It just ain't fair": The ethics of health care for African Americans: Eds., Dula A, Williams S, and Secundy, M. New York: Prager.
84. Bowman JE. Genetics and racial minorities. In Encyclopedia of Bioethics. Ed. Reich WT, pp. 976-984. New York: Macmillan, 1995
85. Bowman, JE. The road to eugenics. University of Chicago Law School Roundtable. 3:491-517, 1996.
86. Bowman, JE. Genetics and African Americans. Seton Hall Law Review. 27:919-936, 1997
87. Bowman, J.E. 1998. Minority health issues and genetics. Community Genetics. 1: 142-44.

88. Bowman, J. E. 1998. To screen or not to screen: When should screening be offered? *Community Genetics*. 1:145-47.
89. Bowman, J. E. March, 2000. Anthropology: From to the human genome. *Annals of the American Academy of Political and Social Science*. (In, *The Study of African American problems: W. E. B. Du Bois's agenda, then and now*. Eds., Anderson, E. and Zuberi, T. 568:140-53.
90. Bowman, J. E. 2000. Technical, genetic, and ethical issues in screening and testing African-Americans for hemochromatosis. *Genet. Test* 4/2: 207-212.

### BOOKS

- Bowman JE (Edit.) *Distribution and Evolution of Hemoglobin and Globin Loci*. New York: Elsevier/North Holland, 1983.
- Bowman JE and Murray RF. *Genetic Variation and Disorders in Peoples of African Origin*. Johns Hopkins University Press, Baltimore, 1990.
- Bowman, J. E. *Eugenics Never Died* (In preparation) The Johns Hopkins University Press.

### ABSTRACTS

1. Grossman MI, Calloway DH, Bowman JE and Calhoun W. The Effect of Previous Level of Protein Intake on Response to Injury. *Federation Proceedings* 1954; 13:1505.
2. Bowman JE, Carson PE, Frischer H, Josephson AM and Kahn M. Microscopic Studies of G-6-PD Deficient Blood in the Blood Bank: A Capillary Tube Nile Blue Methemoglobin Reduction Test. *Transfusion* 1964; No.1, 378.
3. Josephson AM, Vaithianathan T, Bowman JE and Catino ML. The Capillary Pipette is Applied to Blood Processing I. Grouping and Typing. *Transfusion* 1965; 5:No.1, 379.
4. Bernstein L, Kaptue Noche L and Bowman JE. The Detection of Genetic Heterogeneity within Electromorphs by Heat Denaturation. *Genetics* 1979; 91:(Supplement)no.4, Part 2,s9.
5. Kirschner RH and Bowman JE. The Sickle Cell Trait: Sudden Death Fallacy. Abstract Paper for Annual Meeting of the American Academy of Forensic Sciences 1980.