

## CURRICULUM VITAE

**SERGIO PIOMELLI, MD** *Born:* March 29, 1931, Naples, Italy

**Education:** 1948 BA, Liceum J. Sannazzaro, Naples, Italy  
 1954 MD, *Magna Cum Laude*, University of Naples, Italy, Medical School

**Training:** **UNIVERSITY OF NAPLES, Italy Medical School**  
 1954-1957 Intern and Resident in Medicine

**Academic Appointments:****TUFTS UNIVERSITY, Medical School**

1957-1958 Fellow in Medicine

**HARVARD UNIVERSITY, Medical School**

1958-1960 Assistant in Medicine

**UNIVERSITY OF ROME, Italy**

1960-1963 Established Investigator, National Research Council

**THE MOUNT SINAI HOSPITAL OF NEW YORK**

1963-1964 Associate in Hematology

**NEW YORK UNIVERSITY, Medical School**

1964-1967 Assistant Professor of Pediatrics

1967-1970 Associate Professor of Pediatrics

1970-1979 Professor of Pediatrics

**COLUMBIA UNIVERSITY, College of Physicians & Surgeons**

1979-2005 Professor of Pediatrics

1990-2005 James A. Wolff Professor of Pediatrics

**Hospital and Professional Appointments:****NEW YORK UNIVERSITY, Medical School**

1964-1979 Director, Pediatric Hematology/Oncology Division

**COLUMBIA UNIVERSITY, College of Physicians & Surgeons**

1979-2005 Director, Pediatric Hematology/Oncology Division

1983-2006 Director, Comprehensive Sickle Cell Center

**Non-Academic Appointments:**

1974-1982 Center for Disease Control, Lead Poisoning Advisory Board, Atlanta, GA

1974-1993 Mayor's Lead Poisoning Advisory Board, New York, N.Y.

1975-1977 President's Council on Environmental Quality, Washington, D.C.

1976-1981 Current Topics in Hematology, A. Liss Publ. N. Y., Editor (with S. Yachnin)

1977-1987 Cooley's Anemia Foundation, Chairman, Medical Advisory Board

2001-2003 Center for Disease Control, Lead Poisoning Advisory Board, Atlanta, GA

**Honors:**

1954 Fellow, French Government, Blood Transfusion Center, Paris, France

1964-1973 Career Scientist, Health Research Council of the City of New York

1968-1969 Visiting Professor of Hematology, Medische Faculteit, Rotterdam, Holland

1977 Fellow, New York Academy of Science

1983 Fellow, American Academy of Pediatrics

**PUBLICATIONS:**

1. Lee M, **Piomelli S**, Granger S, Miller S, Harkness S, Brambilla D, Adams R. Stroke prevention trial in sickle cell anemia (STOP): extended follow-up and final results. *Blood* 108: 847:852, 2006.
2. **Piomelli S**, Hirsh D, Corash L Isolation of normoblasts from peripheral blood on discontinuous gradient of arabino-galactane: a tool for non invasive prenatal Diagnosis. *Ann NY Acad Sc.* 1054: 504-506, 2005
3. **Piomelli S** The controversy about splenectomy. *Ann NY Acad Sc.* 1054: 511-513, 2005
4. Days N, Tadin M, Christiano AM, Lanzano P, **Piomelli S**, Brown S. Rapid prenatal diagnosis of sickle cell diseases using oligonucleotide ligation assay coupled with laser-induced fluorescence detection. *Prenat Diagn* , 68-69-2004.
5. **Piomelli S**, Corash L Separation of nucleated cells from whole blood by buoyant density using ultracentrifugation on arabino-galactane discontinuous gradients. *Blood* 100:3574, 2003
6. Day NS, **Piomelli S** Diagnosis of alpha thalassemia: screening for the alpha <sup>-3.7</sup> allele. *Blood, (abs)* 100:3559, 2002.
7. Howard, C, Dampier, K, Kalinyak, A, Lail, W, Mentzer, **S. Piomelli**, E. Radel, S. Space, T. Coates Hydroxyurea Use in Children: Preliminary Results from the Comprehensive Sickle Cell Centers Common Database. *Blood, (abs)* 100: 1764, 2002
8. T. Coates, C. Dampier, G. Evans, K. Kalinyak, A. Lail, W. Mentzer, **S. Piomelli**, E. Radel, S.Space, T. Howard. Prevalence of Parvovirus B19 Infection in a Cohort of Children and Adolescents with Sickle Cell Disease. *Blood, (abs)* 100: 1766, 2002
9. **Piomelli S**. Childhood lead poisoning. *Pediatr Clin North Am.* 49:1285-1304, 2002
10. Day NS, Tadin M, Christiano AM, Lanzano P, **Piomelli S**, Brown S. Rapid prenatal diagnosis of sickle cell diseases using oligonucleotide ligation assay coupled with laser-induced capillary fluorescence detection. *Prenat Diagn.* 22:686-691, 2002
11. Day NS, **Piomelli S** Diagnosis of alpha thalassemia: screening for the alpha <sup>-3.7</sup> allele. *Blood* 100:3559,2002
12. Murakami K, Kanno H, Miwa S, **Piomelli S**. Human HKR isozyme: organization of the hexokinase I gene, the erythroid-specific promoter, and transcription initiation site. *Mol Genet Metab.* 67:118-130, 2001.
13. Sheth S, Dimichele D, Lee M, Lamour J, Quaegebeur J, Hsu D, Addonizio L, **Piomelli S**. Heart transplant in a factor VIII-deficient patient with a high-titre inhibitor: perioperative management using high-dose continuous infusion factor VIII and recombinant factor VIIIa. *Haemophilia.* 7:227-232, 2000.
14. Murakami K and **Piomelli S**: The RBC-Specific Hexokinase Isozyme (HK<sub>R</sub>) is Derived from the Common Isozyme HK<sub>I</sub> Gene by Usage of Alternate Promoter and Alternate Splicing. *Molec Gen & Metabolism*, 67:118-130, 2000
15. Sheth S, Ruzal-Shapiro C, **Piomelli S**, Berdon WE. CT imaging of splenic sequestration in sickle cell disease. *Pediatr Radiol.* 30:830-833, 2000..
16. Tancabelic J, Sheth S, Paik M, **Piomelli S**. Serum transferrin receptor as a marker of erythropoiesis suppression in patients on chronic transfusion. *Am J Hematol.* 60:121-125, 1999.
17. Tancabelic J, Sheth S, Paik M and **Piomelli S**: Serum transferrin Receptor as a Marker of Erythropoiesis Suppression in Patients on Chronic Transfusion. *Am. J. Hematology* 60:121-125, 1999.
18. Sheth S, Ruzal-Shapiro AC, Hurllet-Jensen A, **Piomelli S**, Berdon WE: Pulmonary embolism developing in patients with sickle cell disease on hypertransfusion and IV deferoxamine chelation therapy *Ped Radiol* 12: 926-928. 1998

19. Poh-Fitzpatrick MB, **Piomelli S**, Deybach JC, et al. Erythropoietic protoporphyria: A triallelic inheritance model. *J Invest Dermatol* 108: 362-363 1997
20. Vichinsky EP, Styles LA, Colangelo LH, et al. Acute chest syndrome in sickle cell disease: Clinical presentation and course. *Blood* 89: 1787-1792, 1 1997
21. Sheth S, Ruzal-Shapiro C, Hurllet-Jensen A, **Piomelli S**, Berdon WE. Pulmonary embolism developing in patients with sickle cell diseases on hypertransfusion and IV deferoxamine chelation therapy. *Pediatr Radiol* 27:926-928, 1997
22. Murakami K and **Piomelli S**: Identification of the cDNA for the Human Red Blood Cell-Specific Hexokinase Isozyme. *Blood* 89:762-766, 1997.
23. Prohovnik I., Sano, M., De Vivo, D., Hurllet, A., Keilp, J., & **Piomelli S.**: Frontal Lobe Dysfunction in Sickle-Cell Anemia. *Brain* Submitted, 1997
24. Sano M, Haggerty R, Kugler S, Martin B, Prohovnik I, Hurllet-Jensen A, **Piomelli S**. De Vivo DC: Neuropsychological Consequences of Sickle Cell Disease. *Neuropsychiatry, Neuropsychology, Behavioral Neurology* 9: 242-247, 1996.
25. Sheth S, **Piomelli S**, Wang X: Haplotypes of the human  $\beta$ -like globin gene cluster: Analyzing the 3' HpaI polymorphic site by long distance PCR. *Am Journ Hem* 50: 57-60, 1995
26. Levin T, Sheth S, Berdon W, Ruzal-Shapiro C, **Piomelli S**: Deferoxamine-induced platysplondyly in hypertransfused thalassemic patients. - *Ped Rad*, 25, Supplement S122-S124, 1995.
27. Levin T, Sheth S, Hurllet A, Commerci S, Ruzal-Shapiro C, **Piomelli S**, Berdon W: MR marrow signs of iron overload in transfusion-dependent patients with sickle cell disease. *Ped Rad*, 25: 614-619, 1995.
28. Levin T, Sheth S, Berdon W, Ruzal-Shapiro C, **Piomelli S**: MRI marrow observations in thalassemia: the effects of the primary disease, transfusional therapy, and chelation. *Ped Rad*, 25: 607-613, 1995.
29. **Piomelli S**: The Management of Patients With Cooley's Anemia: Transfusions and Splenectomy. *Seminars in Hem* 32:262-268, 1995.
30. Sheth S, **Piomelli S**, Wang X: Haplotypes of the Human  $\beta$ -Like Globin Gene Cluster: Analysing the 3' Hpa I Polymorphic Site by Long Distance PCR. *Am J Hem* 50:57-59, 1995.
31. Wang X, Poh-Fitzpatrick M, Chen T, Malavade K, Carriero D, **Piomelli S**: Systematic Screening for RNA with Skipped Exons. Splicing Mutations of Ferrochelatase Gene. *Bioch Bioph Acta* 1271: 358-362, 1995.
32. **Piomelli S**: Ethical Problems in Bone Marrow Transplantation for Hemoglobinopathies. In: *Sickle Cell Disease and Thalassemias: New Trends in Therapy*. Y. Beuzard, B. Lubin, J. Ross (Eds), Colloque INSERM/John Libbey Eurotext Ltd., Vol 234, pp 411-417, 1995.
33. Ostasiewicz LT, Huang JL, Wang X, **Piomelli S**, Poh-Fitzpatrick MB: Human protoporphyria. genetic heterogeneity at the ferrochelatase locus. *Photod Photoimm & Photomed*. 11: 18-21, 1995.
34. **Piomelli S**: Recent Advances in the Management of Thalassemia. *Current Science* 1065-6251, 1995.
35. Wang X, Poh-Fitzpatrick M, **Piomelli S**: A Novel Splicing Mutation in the Ferrochelatase Gene Responsible for Erythropoietic Protoporphyria. *Biochem Biophys Acta* 1227:25-27, 1994.
36. Venketasubramanian N, Prohovnik I, Hurllet A, Mohr J, **Piomelli S**: Middle Cerebral Artery Velocity Changes During Transfusion in Sickle Cell Anemia. *Stroke* 25:2153-2158, 1994.
37. Wang X, Seaman C, Paik M, Chen T, Bank A, **Piomelli S**: Experience with 500 Prenatal Diagnoses of Sickle Cell Diseases: Effect of Gestational Age on Pregnancy Outcome. *Pren Diagn*. 14: 851-857, 1994.

38. Hurllet-Jensen A, Pohovnik I, Pavlakis S, **Piomelli S**: Effects of Total Hemoglobin and Hemoglobin S Concentration on Cerebral Blood Flow During Transfusion Therapy to Prevent Stroke in Sickle Cell Disease. *Stroke*. 25: 8: 1668-1692, 1994.
39. Wang X, Poh-Fitzpatrick MB, Taketani S, Chen T, **Piomelli S**: Screening for ferrochelatase mutations: molecular heterogeneity of erythropoietic protoporphyria (EPP). *Bioch Biop Acta*. 1225: 187-190,1994.
40. Guarini L, **Piomelli S**: Hydroxyurea in Congenital Erythropoietic Porhyria. Correspondence *N Engl J Med* 330:1091-1092, 1994.
41. **Piomelli S**: Childhood Lead Poisoning in the '90s. *Pediatrics* 93: 508-510, 1994.
42. Nesbit N, Buckley JD, Feig SA, Anderson JR, Lampkin B, Bernstein ID, Kim TH, **Piomelli S**, Kersey JH, Coccia PF, O'Reilly RC, August C, Thomas ED and Hammond GD: Chemotherapy for induction of remission of childhood AML leukemia followed by marrow transplant or chemotherapy: *J Cl Onc* 12:127-135, 1994.
43. Wang X, Poh-Fitzpatrick M, Carriero D, Ostasiewicz L, Chen T, Taketani S, **Piomelli S**. A Novel Mutation in Erythropoietic Protoporphyria: an Aberrant Ferrochelatase mRNA Caused by Exon Skipping during RNA Splicing. *Bioch Bioph Acta* 1181:198-200, 1993
44. Tilton WM, Seaman C, and **Piomelli S**: Measurements of Radiolabelled Lactate by Lactate Mono-Oxygenase. *Ann Bioch* 208, 400-402, 1993
45. **Piomelli S**, Seaman C: Mechanism of Red Blood Cell Aging: Relationship of Cell Density and Cell Age. *Am J Hem* 42:46-52, 1993
46. Dinndrof PA, Buckley JD, Nesbit ME, Lampkin BC, **Piomelli S**, Feig SA, Kersey JH, Hammond GD, Bernstein ID: Expression of Myeloid Differentiation Antigens in Acute Nonlymphocytic Leukemia: Increased Concentration of cd33 Antigen Predicts Poor Outcome. A Report from the Childrens Cancer Group. *Med Ped Onc* 20:192-200, 1992
47. **Piomelli S**: Lead Poisoning. Chapter in: *Hematology of Infancy and Childhood*, 4th Edition Nathan D, Oski F, WB Saunders & Co, Philadelphia, PA (eds) pp. 472-494,1992
48. **Piomelli S**: Bone Marrow Transplantation in Sickle Cell Disease: A Plea for a Rational Approach. *Bone Marrow Transplantation* 10:58-63, 1992.
49. **Piomelli S**: Management of Thalassemia Major (Cooley's Anemia). *Hem Reviews* 6:137-145, 1992.
50. **Piomelli S**: Screening for Lead Poisoning. In *Primary Pediatric Care*. RA Hoekelman, SB Friedman, NM Nelson, HM Seidel (eds) Mosby-Year Book, Inc. 2nd Edition, pp 223 - 224, 1992.
51. **Piomelli S**: Screening for Anemia. In *Primary Pediatric Care* . Hoekelman RA, Friedman SB, NM Nelson, HM Seidel (eds) Mosby-Year Book, Inc. 2nd Edition, pp 222 - 223, 1992.
52. Wang X, Chen T, Kim D, **Piomelli S**: Prevention of Carry-over Contamination in the Detection of  $\beta^S$  and  $\beta^C$  Genes by Polymerase Chain Reaction. *Am J Hem* 40:146-148, 1992
53. **Piomelli S** and Seaman C: The Mechanism of Enzymes Decline in the Red Cell During the "*In Vivo*" Aging Process. In *Red Blood Cell Aging*. Magnani M, DeFlora A (eds), Plenum,New York, NY 1991, pp 105-113..
54. Murakami K, **Piomelli S**: The Isoenzymes of Mammalian Hexokinase: Tissue Specificity and *In vivo* Decline. In *Red Blood Cell Aging*. Magnani M, DeFlora A (eds), Plenum,New York, NY 1991, pp 277-284.
55. Haram S, Carriero D, Seaman C, **Piomelli S**: The Mechanism of Decline of Age-Dependent Enzymes in the Red Blood Cell. *Enzyme* 45:47-53, 1991.
56. Murakami K, **Piomelli S**: Decay of Mammalian Hexokinase: Characterization of the Specific Proteolytic Activity. *Bioch Bioph Acta* 1080:83-87, 1991.

57. Tilton WM, Seaman C, Carriero D, **Piomelli S**: Regulation of Glycolysis in the Erythrocyte: The Role of the Lactate/Pyruvate and NAD/NADH Ratios. *J Lab Clin Med* 118:146-152, 1991.
58. **Piomelli S**: Sickle Cell Diseases in the 1990s: The Need for Active and Preventive Intervention. *Seminars in Hematology* 28:227-232, 1991.
59. **Piomelli S**, Loew T: Management of Thalassemia Major (Cooley's Anemia). *Hematology/Oncology Clinics of North America*, 5:557-569, 1991.
60. Brass LM, Prohovnik I, Pavlakis .G, DeVivo DC, **Piomelli S**, Mohr JP: Middle Cerebral Artery Blood Velocity and Cerebral Blood Flow in Sickle Cell Disease. *Stroke* 22:27-30, 1991.
61. **Piomelli, S**: Oral Iron Chelators for the Clinical Management of Iron Overload. Current Hopes and Problems. In Sixth Cooley's Anemia Symposium. Bank A (ed). *Ann NY Ac Sciences* 612:311-314, 1990.
62. Amendola G, Garvin J, **Piomelli S**: Cystic Fibrosis in a Black Child with Hemoglobin S-D Disease. *Am J Ped Hem/Onc*. 12:340-342, 1990.
63. **Piomelli S**, Seaman C, Ackerman K, Yu E, Blei F: Planning an Exchange Transfusion in Patients with Sickle Cell Syndromes. *Am J Ped Hem/Onc* 12:268-276, 1990.
64. Nathan DG, **Piomelli S**: Oral Iron Chelators. *Seminars in Hematology* 27:83-85, 1990.
65. **Piomelli, S**: Penicillamine in Children with Small Lead Burdens, *N Eng J Med* 322:1887-88, 1990
66. **Piomelli, S**: Phosphofructokinase (PFK) Deficiency, Glycogenosis, Type VII. *Birth Defects Encyclopedia*, Alan R. Liss, Inc. N.Y. pp 801-802, 1990
67. **Piomelli S**: Childhood Blood Disorders. In: *The Columbia University College of Physicians & Surgeons Complete Guide to Early Childhood Care*. Cunningham N, Tapley DF (eds) Crown Publ, NY :295-306, 1990.
68. Lerner N, Blei F, Bierman F, Johnson L, **Piomelli S**: Chelation Therapy and Cardiac Status in Older Patients with Thalassemia Major. *Am J Ped Hem/Onc* 12:56-60, 1990.
69. Murakami K, Blei F, Tilton W, Seaman C, **Piomelli S**: An Isozyme of Hexokinase Specific for the Human Red Blood Cell (HK<sub>R</sub>). *Blood* 75:770-775, 1990.
70. **Piomelli S**: The Possible Role of Genetic Modifiers in; the Clinical Severity of Sickle Cell Syndromes: In *Sickle Cell Diseases* Whittens C, Bertles C (eds) *Ann NY AC Scien* 565:207-210, 1989
71. Buckley JD, Lampkin BC, Nesbit ME, Bernstein ID, Feig SA, Kersey JH, **Piomelli S**, Kim TH, Hammond GD. Remission Induction in Children With Acute Non-Lymphocytic Leukemia Using Cytosine Arabinoside and Doxorubicin or Daunorubicin: A Report from CCSG. *Med Pediatr Oncol* 17:382-390, 1989.
72. Pavlakis SG, Prohovnik I, **Piomelli S**, DeVivo DC.: Neurologic complications of sickle cell disease. In *Advances in Pediatrics*. Barnes LA, DeVivo DC, Morrow Gill, Oski F, Rudolph AM (eds) Year Book Medical Publishers, Inc, Chicago, London, Boac Raton, Vol. 36, pp 247-271, 1989.
73. **Piomelli S**: Cooley's Anemia Management: 25 Years of Progress. In *Advances and Controversies in Thalassemia Therapy: Bone Marrow Transplantation and Other Approaches*. Buckner CD, Gale RP, Lucarelli G (eds) Alan R. Liss, NY, pp 23-26, 1989.
74. **Piomelli S**: Phosphofructokinase (PFK) Deficiency. *Birth Defects Encyclopedia*, Alan R. Liss, NY, 1989.
75. Prohovnik I, Pavlakis SG, **Piomelli S**, Bello J, Mohr JP, Hilal S, DeVivo DC: Cerebral Hyperemia, Stroke, and Transfusion in Sickle Cell Disease. *Neurology* 399:344-348, 1989.

76. Pavlakis SG, Bello J, Prohovnik I, Sutton M, Ince C, Mohr JP, **Piomelli S**, Hilal S, DeVivo DC.: Brain Infarction in Sickle Cell Anemia: Magnetic Resonance Imaging Correlates. *Ann Neur* 23:125-30, 1988
77. **Piomelli S**, Needleman HL, Rosen JF: Lead Poisoning. *AAP Pediatric Update*, Vol. 9 (4), 1988.
78. **Piomelli S**: Acute Lymphoblastic Leukemia (ALL) in Children: Current Perspective on Treatment. *International Multidisciplinary Meetings on Development*, Ed CMS - Turin, pp 153-158, 1988.
79. **Piomelli S**: Commentary to Danon D, Marikowsky Y: The Aging of the Red Blood Cell. A multifactor Process. *Blood Cells* 14:16-18, 1988.
80. **Piomelli S**: Commentary to Beutler E: The Relationship of Red Cell Enzymes to Red Cell Life-Span. *Blood Cells* 14:81-86, 1988.
81. Poh-Fitzpatrick M., **Piomelli S**, Seaman C, Skolnick L.M: Congenital Erythropoietic Porphyria: Complete Suppression of Symptoms by Long-Term High-Level Transfusion with Deferoxamine Infusion Iron Rescue. In *Dermatology in Five Continents*. Orfanos C, Stadler R, (eds). Springer-Verlag, Berlin, pp 876-9, 1988.
82. Pavlakis SG, Bello J, Prohovnik I, Sutton M, Ince C, Mohr JP, **Piomelli S**, Hilal S, De Vivo DC: Brain Infarction in Sickle Cell Anemia: Magnetic Resonance Imaging Correlates. *Ann Neur* 23:125-30, 1988.
83. **Piomelli S**, Seaman C, Kapoor S.: Lead-Induced Abnormalities of Porphyrin Metabolism: the Relationship with Iron Deficiency. In *Mechanisms of Chemical-Induced Porphyrinopathies*. Silbergeld EK, Fowler BA (eds), *Ann NY Acad Sci* 514: 278-288, 1987.
84. Feig SA, Nesbit ME, Buckley J, Lampkin B, Bernstein ID, Kim T.H, **Piomelli S**, Kersey JH, Coccia PF, O'Reilly RJ, August C, Thomas ED, Hammond GD.: Bone marrow Transplantation for Acute Non-Lymphocytic Leukemia: A Report from the Childrens Cancer Study Group of 67 Children Transplanted in First Remission. *Bone Marrow Transplantation* 2:365-374, 1987.
85. **Piomelli S**, Lerner N, Cohen A, Schwartz E, Nathan D, Wolfe L, Weatherall D, Nienhuis A: Bone Marrow Transplantation for Thalassemia. *New Eng J Med* (Letter) 317:964, 1987.
86. **Piomelli S**: The Diagnostic Utility of Measurements of Erythrocyte Porphyrins. *Hematology/Oncology Clinics of North America* 1:419-430, 1987.
87. **Piomelli S**: G6PD Deficiency and Related Disorders of the Pentose Pathway. Chapter in: *Hematology of Infancy and Childhood*, 3rd Ed. Nathan D, Oski F, (eds), WB Saunders, Philadelphia, pp. 583-612, 1987.
88. **Piomelli S**: Lead Poisoning. Chapter in: *Hematology of Infancy and Childhood*, 3rd Edition. Nathan D, Oski F (eds), WB. Saunders, Philadelphia, pp. 389-412, 1987.
89. **Piomelli S**, Seaman C, Corash L. How do Red Cell Enzymes Age? Hypothesis and Facts. *Brit J Haemat* 64:407-408, 1986.
90. **Piomelli S**: G6PD-Related Neonatal Jaundice. In: *Glucose-6-Phosphate Dehydrogenase*. Beutler E, Yoshida A. (eds), Academic Press, New York, pp. 85-108, 1986.
91. **Piomelli S**, Poh-Fitzpatrick M, Seaman C, Skolnick L, Berdon W: Congenital Erythropoietic Porphyria: Complete Suppression of Symptoms by Chronic High Level Transfusion. *N Eng J Med* 314;1029-31, 1986.
92. **Piomelli S**, Hart D, Graziano J, Grant G, Karpatkin M, McCarthy K: Current Strategies in the Management of Cooley's Anemia. *Ann NY Ac Sc* 256-267, 1985.
93. **Piomelli S**: Chronic Transfusions in Patients with Sickle Cell Disease. Indications and Problems. *Am J Ped Hem/Onc* 7:51-55, 1985.
94. Woods W, Nesbit ME, Buckley J, Lampkin B, McCreadie S, **Piomelli S**, Kersey J, Feig S, Bernstein I, Hammond D: Correlation of Chromosome Abnormalities With Patient

- Characteristics, Histologic Subtype and Induction Success in Children With Non-lymphocytic Leukemia. *J Cl Onc* 3: 3-11, 1985.
95. Iannacci L, **Piomelli S**: Use of Venous Access Lines. *Am. J. Ped. Hem./Onc.* 6:277-281, 1984.
  96. **Piomelli S**: Iron Deficiency, Diagnosis and Treatment. In: *Iron and Health*, Salvioli GP. (ed) Un. Bologna 113 - 123, 1984.
  97. **Piomelli S**, Rosen JF, Chisolm J Jr, Graef JW: Management of Childhood Lead Poisoning. *J Peds* 105: 523-532, 1984.
  98. Corraera A, Graziano JH, **Piomelli S**: Inappropriately Low Red Cell 2,3-Diphosphoglycerate and p50 in Transfused  $\beta$ -Thalassemia. *Blood* 63: 803-806, 1984.
  99. **Piomelli S**: Present Status of Chemotherapy of Osteogenic Sarcoma. *Orth Rev* 12: 91-96, 1983
  100. **Piomelli S**: Cost Effectiveness of Lead Screening. *N Engl J Med* (letter) 307: 1268, 1982.
  101. Valdes-Cruz LM, Reinecke C, Rutkowski M, Goldberg SJ, Allen HD, Sahn DJ, **Piomelli S**: Preclinical Cardiac Manifestations of Thalassemia: Relaxation Patterns. *Am Heart J* 103: 505-11, 1982.
  102. **Piomelli S**, Seaman C, Zullo D, Curran A, Davidow B: The Threshold for Lead Damage to Heme Synthesis in Urban Children. *Proc Natl Acad Sci (USA)* 79: 3335-3339, 1982.
  103. Graziano JH, **Piomelli S**, Seaman C, Cohen AR, Kelleher JF Jr, Schwartz E: A Simple Technique for Preparation of Young Red Cells for Transfusion from Ordinary Blood Units. *Blood* 59: 865-868, 1982.
  104. Graziano JH, **Piomelli S**: Reduction of Iron Overload in Thalassemia. In *Birth Defects: Original Article Series*, 18: 339-346, 1982.
  105. Graziano JH, **Piomelli S**: Clinical Management of  $\beta$ -Thalassemia. *Tex Rep Biol Med*, 40: 355-64, 1981.
  106. Graziano JH, **Piomelli S**: Thalassemia. In "*Current Therapy. Latest Approved Methods of Treatment for the Practicing Physician.*" Conn, H.F.(eds), WB Sanders, Philadelphia, PA, 1981.
  107. Graziano JH, **Piomelli S**, Hilgartner M, Giardina P, Karpatkin M, Andrew M, Lolocono N, Seaman C.: Chelation Therapy in  $\beta$ -Thalassemia. Splenectomy to Achieve Iron Balance. *J Ped* 99: 695-699, 1981.
  108. Hart D, **Piomelli S**: Simultaneous Quantitation of Zinc Protoporphyrin and Free Protoporphyrin in Erythrocytes by Acetone Extraction. *Clin.Chem* 27: 220-222, 1981.
  109. Mitnick JS, Bosniak M., Megibow AJ, Karpatkin M, Feiner HD, Kutin N, Van Natta F, **Piomelli S**: CT in  $\beta$  -Thalassemia: Iron Deposition in Liver, Spleen, & Lymph Nodes. *Am J Radiol* 136: 1191-94, 1981.
  110. **Piomelli S**: Chemical Toxicity of Red Cells. *Env Health Persp* 39: 65-70, 1981.
  111. **Piomelli S**, Vora S: G6PD Deficiency and Disorders of the Pentose Pathway. Chapter in: *Hematology of Infancy and Childhood*. Nathan D, Oski F, ( eds), WB Saunders, Philadelphia, pp 566-607, 1981.
  112. **Piomelli S**: Lead Poisoning. Chapter in: *Hematology of Infancy and Childhood*. Nathan D, Oski F, (eds). WB Saunders, Philadelphia pp 392-418, 1981.
  113. **Piomelli S**, Graziano J: Laboratory Diagnosis of Lead Poisoning. *Ped. Clinics NA* 27: 841-853, 1980.
  114. **Piomelli S**, Corash L, Corash MB, Seaman C, Mushak P, Glover B, Padgett R: Blood Lead Concentrations in a Remote Himalayan Population. *Science* 210: 1135-1137, 1980.

115. **Piomelli S**: The Effects of Low-Level Lead Exposure on Heme Metabolism. Chapter in: *Low Level Lead Exposure: Clinical Implications of Current Research*. (eds) Needleman HL, Raven Press, pp. 67-74, 1980.
116. **Piomelli S**, Graziano J, Karpatkin M, Dudell G, Hart D, Hilgartner M, Khanna K, Valdes-Cruz LM, Vora S: Chelation Therapy, Transfusion Requirement and Iron Balance in Young Thalassaemic Patients. *Ann NY Acad Sci* 344: 409-417, 1980.
117. Hart D, Graziano J, **Piomelli S**: Red Blood Cell Protoporphyrin Accumulation in Experimental Lead Poisoning. *Biochem Med* 23: 167-178, 1980.
118. Seaman C, Wyss S, **Piomelli S**: The Decline in Energetic Metabolism with Aging of the Erythrocyte and the Mechanism of Cell Death. *Amer J Hemat* 8: 31-42, 1980.
119. Vora S, **Piomelli S**: Isozymes of Human Phosphofructokinase: Markers of Malignant Transformation. *Cancer Bulletin* 32: 54-58, 1980.
120. Vora S, Corash L, Engel WK, Durham S, Seaman C, **Piomelli S**: The Molecular Mechanism of Inherited Phosphofructokinase Deficiency Associated with Hemolysis and Myopathy. *Blood* 55: 629-635, 1980.
121. Vora, S, Seaman, C, Durham, S, **Piomelli S**: Isozymes of Human Phosphofructokinase: Identification and Subunit Structural Characterization of a New System. *Proc Natl Acad Sci (USA)* 77: 62-67, 1980.
122. **Piomelli S**: L'avvelenamento da piombo. *Prospettive in Pediatria* 35: 261-272, 1979.
123. Hirschhorn R, Roegner V, Jenkins T, Seaman C, **Piomelli S**, Borkowsky W: Erythrocyte Adenosine Deaminase Deficiency without Immunodeficiency: Evidence for an Unstable Mutant Enzyme. *J Clin Invest* 64: 1130-1139, 1979.
124. Gershon A., **Piomelli S**, Karpatkin M, Smithwick E, Steinberg S.: Antibody to Varicella-Zoster Virus After Passive Immunization Against Chickenpox. *J Clin Microb* 8: 733-737, 1978.
125. Kim SP, Gabriel HP, **Piomelli S**: Group Meetings with Parents of Children with Cooley's Anemia. *J Am Soc Psych Med* 25: 112-19, 1978.
126. Campan, T, Szabo P, **Piomelli S**, Siniscalco M.: The Xga Antigen on Red Cells and Fibroblasts. *Cytogenet Cell Genet* 22: 524-526, 1978.
127. **Piomelli S**, Seaman C, Reibman J, Tytun A, Graziano J, Tabachnik N, Corash L: Separation of Younger Red Cells with Improved "in vivo" Survival: A New Approach to Chronic Transfusion Therapy. *Proc Natl Acad Sci (USA)* 75: 3474-3478, 1978.
128. Needleman H, **Piomelli S**: Effects of Low-Level Lead Exposure. *NRDC Publications*, New York, 1978.
129. **Piomelli S**: Screening for Lead Poisoning. in: *Principles of Pediatrics: Health Care of the Young*. Hoekelman R, Blatman S, Brunell R, Friedman S, Seidel H (eds). McGraw-Hill, Inc, 192-193, 1978.
130. **Piomelli S**: Screening for Anemia. Chapter in: *Principles of Pediatrics: Health Care of the Young*. Hoekelman R, Blatman S, (eds). McGraw-Hill, Inc, pp. 191-192, 1978.
131. **Piomelli S**: Iron Poisoning. Lead Poisoning. Chapters in: *Current Pediatric Therapy*, Gellis S, Kagan B, (eds). WB Saunders & Co, Philadelphia, PA, 8: 738-742, 1978.
132. Henry W, Nienhuis A, Weiner M, Miller D, Canale V, **Piomelli S**: Echocardiographic Abnormalities in Patients with Transfusion-Dependent Anemia and Secondary Myocardial Iron Deposition. *Am J Med* . 69: 547-555, 1978.
133. Weiner M, Karpatkin M, Hart D, Seaman C, Vora SK, Henry WL, **Piomelli, S.**: Cooley's Anemia: High Transfusion Regimen and Chelation Therapy. Results and Perspective. *J Ped*. 92: 653-658, 1978.

134. **Piomelli S**: Desferrioxamine B Chelation in the Young Thalassemic. Chapter in: *Chelation Therapy in Chronic Iron Overload*. Zaino EC, Roberts RH (eds) Symposia Specialists , Miami, FL, pp. 62-74, 1977.
135. **Piomelli S**: Lead Poisoning -- Its Detection and Treatment. *Drug Therapy* 2: 19-28, September 1977.
136. **Piomelli S**: Free Erythrocyte Porphyrins in the Detection of Undue Absorption of Pb and Fe Deficiency. *Clin Chem* 23: 264-269, 1977.
137. Davidow B, Slavin G, **Piomelli S**: Measurement of Free Erythrocyte Protoporphyrin in Blood Collected on Filter Paper to Detect Lead Poisoning in Children. *Ann Clin Lab Sci.* 6: 209-213, 1976.
138. **Piomelli S**, Corash LM Hemolytic Anemias Due to Enzyme Defects of Glycolysis. *Adv Hum Gen* . Harris H, Hirschhorn K, (eds).6: 165-240, 1976.
139. **Piomelli S**, Brickman A, Carlos E: Rapid Diagnosis of Fe Deficiency by Measurement of Free Erythrocyte Porphyrins (FEP) and Hemoglobin. *Pediatrics* 57: 136-141, 1976.
140. Houk VN, Chisolm JJ, Curran AS, Finberg L, Hopkins DR, Lin-Fu J.S, **Piomelli S**, Reigart JR: Increased Lead Absorption and Lead Poisoning in Young Children:A Statement by the Center for Disease Control. *J Ped* 87: 824-830, 1975.
141. Lamola AA, **Piomelli S**, Poh-Fitzpatrick M, Yamane T, Harber L.: Erythropoietic Protoporphyria and Pb Intoxication: The Molecular Basis for Difference in Cutaneous Photosensitivity.II. Different Binding of Erythrocyte Protoporphyrin to Hemoglobin. *J Clin Inv* . 56: 1528-1535, 1975.
142. **Piomelli S**, Lamola AA, Poh-Fitzpatrick M, Seaman C, Harber L.: Erythropoietic Protoporphyria and Pb Intoxication: The Molecular Basis for Difference in Cutaneous Photosensitivity. I. Different Rates of Diffusion of Protoporphyrin from the Erythrocytes, in Vivo and in Vitro. *J Clin Inv* 56: 1519-27, 1975.
143. **Piomelli S**, Corash L: The Increased Frequency of G6PD Deficiency in Sickle-Cell Anemia. *Symp. Sickle-Cell Disease*. Hercules JI, Schechter AN, Eaton WA (eds), NIH, Bethesda, pp. 367-368, 1974.
144. **Piomelli S**: G6PD Deficiency and Related Disorders of the Pentose Pathway. Chapter in: *Hematology of Infancy and Childhood*,. Nathan D, Oski F (eds.) WB. Saunders & Co, Philadelphia, 346-377, 1974.
145. **Piomelli S**, Gormican S: The Thalassemias. *Paediatrician* 3: 31-41, 1974.
146. Corash LM, **Piomelli S**, Chen HC, Seaman C, Gross E.: Separation of Erythrocytes According to Age on a Simplified Density Gradient. *J Lab Clin Med* . 84: 147-151, 1974.
147. Poh-Fitzpatrick M, **Piomelli S**, Young P, Hsu H, Harber LC.: Erythrocyte Porphyrins - A Rapid Quantitative Microfluorometric Assay. *Arch Derm.* 110: 225-230, 1974.
148. **Piomelli S**, Karpatkin MH, Arzanian M, Zamani M, Becker M., Geneiser N, Danoff SJ, Kuhns WJ.: Hypertransfusion Regimen in Patients with Cooley's Anemia. *Ann NY Ac Sc.* 232: 186-192, 1974.
149. Dancis J, Yip LC, Cox RP, **Piomelli S**, Balis ME: Disparate Enzyme Activity in Erythrocytes and Leukocytes. A Variant of Hypoxanthine Phosphoribosyl-Transferase Deficiency with an Unstable Enzyme. *J Clin Invest.* 52: 2068-2074, 1973.
150. **Piomelli S**: A Micromethod for Free Erythrocyte Porphyrins: the FEP Test. *J Lab Clin Med* 81: 932-940, 1973.
151. **Piomelli S**, Davidow B, Guinee VF.: Lead Poisoning: Status of the FEP and Other Tests. *Pediatrics* (Letter) 52: 468, 1973 .
152. **Piomelli S**, Davidow B, Guinee VF: Screening for Lead Poisoning: Measurements and Methodology. *Pediatrics* (Letter) 52: 304, 1973 .

153. **Piomelli S**, Davidow B, Guinee VF, Young P, Gay G: The FEP (Free Erythrocyte Porphyrins) Test: A Screening Micromethod for Lead Poisoning. *Pediatrics* 51: 254-259, 1973.
154. **Piomelli S**, Jansen V, Dancis J: Hemolytic Anemia of Mg Deficiency in Rats. *Blood* 41: 451-9, 1973.
155. **Piomelli S**, Wyss S, Rita M, Zondag L: Isozymes of Pyruvate Kinase in Blood. *Int S Hem* 1: 345, 1972.
156. **Piomelli S**: G-6-PD Deficiency and Sickle-Cell Anemia. *N Engl J Med* (Letter) 287: 887, 1972 .
157. **Piomelli S**, Reindorf C, Corash LM: Clinical and Biochemical Interactions of Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency and Sickle-Cell Anemia. *N Engl J Med* 287: 213-217, 1972.
158. Becker M, Genieser N, **Piomelli S**: The Radiology of Pyruvate Kinase Deficiency Hemolytic Anemia. *Birth Defects: Or Article Series* 8: 11-14, 1972.
159. Becker M, Genieser NB, **Piomelli S**, Dove D, Mendoza RD: Roentgenographic Manifestations of Pyruvate Kinase Deficiency Hemolytic Anemia. *Amer J.Roentgenol.* 113: 491-498, 1971.
160. **Piomelli S**, Corash LM: *Pediatric Hematology*. Medcom Publishing Co, New York, 1971.
161. **Piomelli S**: Diagnostic Approach to Anemia. *Pediatric Clinics*, 18: 3-21, 1971.
162. **Piomelli S**, Broom M., Miraglia J: Red Blood Cells Osmotic Fragility: Comparison of Continuous Recording and Multiple Tubes Methods. *Am J Clin Path.* 56: 484-486, 1971.
163. Rattazzi MC, Corash LM, van Zanen G., Jaffe E., **Piomelli S**: G6PD Deficiency and Chronic Hemolysis: 4 New Mutants - Relationships between Clinical Syndrome and Enzyme Kinetics. *Blood* 38: 205-218, 1971.
164. Cohlan S, Jansen V, Dancis J, **Piomelli S**: Microcytic Anemia with Erythroblastosis in Offspring of Mg-Deprived Rats. *Blood* 36: 500-506, 1970.
165. **Piomelli S**, Siniscalco M.: The Hematological Effects of Glucose-6-Phosphate Dehydrogenase Deficiency and Thalassemia Trait: Interaction at the Phenotype Level. *Br J Haem* 16: 537-549, 1969.
166. Rubin CS, Balis, ME, **Piomelli S**, Berman PE, Dancis J: Elevated AMP Pyrophosphorylase Activity in Congenital IMP Pyrophosphorylase Deficiency (L-Nyhan Disease). *J Lab Clin Med* 74: 732-741, 1969.
167. **Piomelli S**, Danoff SJ, Becker MM, Lipera MJ, Travis SF: Prevention of Bone Malformation and Cardiomegaly in Cooley's Anemia by Early Hypertransfusion. *Ann NY Ac Sc* 165: 427-436, 1969.
168. Danon D, Bishop C, Westerman M, Valeri R, **Piomelli S**: Fragiligraph Symposium. *Blood* 31: 406-8, 1968.
169. **Piomelli S**, Corash L, Davenport D, Miraglia J, Amorosi E. Lability of G6PD in Gd<sup>A</sup>-and *Mediterranean* Deficiency. *J Cl Invest.* 47: 940-948, 1968.
170. Gardner FH, Nathan D., **Piomelli S**, Cummins JF: The Erythrocythaemic Effect of Androgens. *Br J Haem* 14: 611-615, 1968.
171. **Piomelli S**, Lurinsky G, Wasserman LR: The Mechanism of Red Cell Aging. I. Relationship between Cell Age and Specific Gravity Evaluated by Ultracentrifugation on a Discontinuous Density Gradient. *J Lab Cli Med* 69: 659-674, 1967.
172. Siniscalco M, Filippi G, Latte B, **Piomelli S**, Rattazzi M. Failure to Detect Linkage between Xg and Other X-Borne Loci in Sardinians. *Ann.Hum.Genet (London)* 29 : 231-252, 1966.
173. Siniscalco M, Bernini L, Filippi G, Latte B, Meera Khan P, **Piomelli S**, Rattazzi M: Population Genetics of Hemoglobin Variants, Thalassemia and Glucose-6-Phosphate Dehydrogenase Deficiency, with Particular Reference to the Malaria Hypothesis. *WHO Bull* 34: 379-393, 1966.

174. **Piomelli S**, Spada U, Bernini L, Siniscalco M, Adinolfi M, Mollison PL, Latte B: Survival of  $^{51}\text{Cr}$ -Labelled Red Cells in Subjects with Thalassemia-Trait or G6PD Deficiency or Both. *Br J Hem* 10: 171-180, 1964.
175. Adinolfi M, Davidson RG, Latte B, Meera Khan P, **Piomelli S**, Rattazzi M, Siniscalco M: Further Data on Formal and Population Genetics of G6PD Deficiency. *Acta Gen It* . 8: 96-99, 1963.
176. Latte B, **Piomelli S**, Race R, Rattazzi M, Sanger R, Siniscalco M, Smith CAB. Data on the Linkage of the Genes for G6PD Deficiency, Colour Blindness, Xga Antigen and Hemophilia. *Acta Gen It*. 8: 91-93, 1963.
177. Nathan DG, **Piomelli S**, Cummins JF, Gardner FH, Limauro AL: The Effect of Androgens on Some Aspects of Body Composition and Erythropoiesis in Octogenarian Males. *Ann NY Ac Sc* 110: 965-977, 1963.
178. **Piomelli S**: Blood. *The Italian Encyclopedia* . App 3, 22: 657-681, 1962.
179. Bernini L, Colucci F, **Piomelli S**, Siniscalco M: A Possible Case of  $\alpha$ - $\beta$  -Thalassemia. *Acta Gen Stat Med* 12: 202-208, 1962.
180. **Piomelli S**, Stefanini M, Mele RH: Attempts at Experimental Production of Acute Vascular (Anaphylactoid) Purpura. *Int Arch All* 21: 65-88, 1962.
181. **Piomelli S**, Nathan D., Cummins J, Gardner, F.: Relationship of Total RBC Volume to Total Body Water in Octogenarian. *Blood* 19: 89-92, 1962.
182. Nathan DG, **Piomelli S**, Gardner FH: The Synthesis of Heme and Globin in the Maturing Human Erythroid Cell. *J Clin Invest* 40: 940-946, 1961.
183. **Piomelli S**, Brooke MS: Studies on Homologous Bone-Marrow Transplantation in Irradiated Rabbits. *Blood* 17: 579-596, 1961.
184. **Piomelli S**, Beherendt DM, O'Connor JF, Murray JE: Survival of Skin Homografts in Radiation Chimeras. *TTranspl Bull* 27: 431-436, 1961.
185. **Piomelli S**, Brooke MS: Erythrocytes as a Tool in Studies on Rabbit Radiation Chimeras and Secondary Disease. *Ann NY Ac Sc* 87: 472-475, 1960.
186. **Piomelli S**, Brooke M: Immune Hemolytic Anemia as a Component of Secondary Disease in Rabbit Radiation Chimeras. *Tran Bull* 7: 428-429, 1960.
187. **Piomelli S**, Brooke MS: Hematological Studies of X-Irradiated Rabbits. *E ur Soc Hem* 191-194, 1960.
188. Stefanini M, **Piomelli S**, Mele R: Childhood Immuno-Hematological Disorders. *Arc All* 15: 16-34, 1959.
189. **Piomelli S**, Stefanini M, Mele RH: Antigenicity of Human Vascular Endothelium: Lack of Relationship to Arteritis. *J Laboratory Clinical Medicine* 4 5: 241-256, 1959.
190. **Piomelli S**, Schettini F: Naegeli's Thrombopathia: A Family Study. *Sint* 3: 1-10, 1959.
191. **Piomelli S**, Mele RH, Stefanini M.: Antigenicity of Endothelium and Its Relationship to Arteritis. *VII Meet Int Soc Hemat* 11: 740-743, 1958.
192. Stefanini M, **Piomelli S**, Mele R, Ostrosky J, Colpoys M: Acute Purpura Following Vaccination with Asiatic Flu Vaccine. *New England Journal of Medicine* 259: 9-12, 1958.
193. Scalfi L, **Piomelli S**: Aplastic Anemia Secondary to Prolonged Therapy with Bismuth. *Min Med*. 48: 3579-3584, 1957.
194. **Piomelli S**, Ortore D, Bruzzese L.: Action of Reserpine on Blood Coagulation and Fibrinolysis. *Pror Med* 8: 769-772, 1957.
195. Bruzzese L, DiTommasi M, **Piomelli S**, Scagliola S.: Search for Viral Entities in Two Mouse Ascites Tumors. *Soc It Biol Sper* 33: 774-776, 1957.
196. Scalfi L, Bruzzese L, **Piomelli S**: Thrombotic Thrombocytopenic Purpura, Chronic Intermittens. *Min Med* 48: 2821-2827, 1957.

197. Bozzo A, **Piomelli S**, Ricciardi : The Fibrinolytic System in Malignant and Benign Adenopathies. *Min Med* 47: 1050-1062, 1956.
198. Bozzo A, **Piomelli S**, Schettini F: Titration of the Antifibrinolytic Activity of Serum with a New Method. *Riv.Ist Sierot It* 31: 362-367, 1956.
199. Vecchio F, Schettini F, **Piomelli S**: In Vitro Correction of Defects in Formation of Thromboplastin by Purified Fractions. *Ped* 64: 365-373, 1956.
200. **Piomelli S**, Bruzzese L, Schettini F: Activity of Lysozyme in the Clotting Process. II. In Vivo Studies in Hemophilia. *Sint* 1: 49-58, 1956.
201. **Piomelli S**, Bruzzese L, Schettini F: Activity of Lysozyme in the Clotting Process. I. In Vivo and In Vitro Studies. *Progr.Med* 22: 681-693, 1956.
202. **Piomelli S**, Schettini F: Anticoagulant and Fibrinolytic Activity of Intravenous Trypsin. *Rev Hem* 11: 378-389, 1956.
203. Consoli G, **Piomelli S**, Schettini F.: Value of Histochemical Techniques in the Diagnosis of Acute Leukemia. *B Soc It Hemat* 3: 308-310, 1955.
204. **Piomelli S**, Schettini F: Hemorrhagic Diathesis Associated with Altered Platelet Function. *Boll Soc It Hemat* 3: 471-474, 1955.
205. Consoli G, Schettini F, **Piomelli S**: Erythroleukemoid Reaction in Chicken Vaccinated with Newcastle Virus. *Soc It Biol Sper* 31: 146-148, 1955.
206. **Piomelli S**, Schettini F, Vecchio F: An Hitherto Undescribed Hemorrhagic Disorder of the Newborn. (Combined Prothrombin, factor VII and PTC deficiency). *Ped* 44: 188-201, 1955.