# Contents, Vol. 78, No. 2-3, 1987

85

**Obituary**

Weatherall, D.J  
Professor Hermann Lehmann: A Personal Tribute
Huntsman, R.G  

71

**Molecular Variation**

Has Haemoglobin a Future?
Weatherall, D.J  
Life among the Hemoglobins
Schneider, R.G  

75

A Short Review of Human γ-Globin Gene Anomalies
Huisman, T.HJ  

80

**Structure, Function**

X-Ray Crystallographic and Functional Studies of Human Haemoglobin Mutants Produced in Escherichia coli
Luisi, B.F.; Nagai, K.; Perutz, M.F  

90

Deformability of the Hemoglobin Molecule as the Basis of Its Functional Behavior
Winterhalter, K.H.; Di Iorio, E.E  

95

**Structure, Physiology**

Reduction and Spectroscopic Properties of Hemoglobins M Nagai, M.; Takahira, S.; Yoneyama, Y  

Modification of Hemoglobin with Site-Directed Bifunctional Reagents
Kavanaugh, M.P.; Shih, D.T.-B.; Jones, R.T  

99

Role of Membrane-Bound Haemoglobin Products in Oxidative Damage in Sickle Cell Membranes
Rice-Evans, C; Baysal, E  

105

**Diagnosis, Distribution**

Structure and Function of a New Hemoglobin Variant, Hb Meilahti (α2β236(C2)Prº→Thr), Characterized by Mass Spectrometry

109

Neonatal Screening and Mass-Spectrometric Analysis of Hemoglobin Variants in Japan
Hayashi, A.; Wada, Y.; Matsuo, T.; Katakuse, I.; Matsuda, H 114
Characterization Approach of ‘Silent’ Beta-Chain Hemoglobin Variants
Lacombe, C; Riou, J.; Godard, C; Rosa, J.; Galacteros, F 119
High-Performance Liquid Chromatography as a Method to Identify Haemoglobin Abnormalities
Huisman, T.H.J 123
Strategy for Structural Characterization of Haemoglobin Variants
Baudin-Chich, V.; Rochette, J.; Wajcman, H 127
Haemoglobinopathies, Thalassaemias and Enzymopathies in Saudi Arabia:
The Present Status
El-Hazmi, M.A.F 130
Haemoglobin Disorders among Southeast-Asian Refugees in France
Dode, C; Berth, A.; Bourdillon, F.; Mahe, C; Labie, D.; Rochette, J 135
Screening Prenatal Diagnosis of Hematologic Diseases, 1986 Update
Alter, B.P 137
68
Contents

Neonatal Haemoglobinopathy Screening
Frost, B.A.; Bellingham, A.J 142
Haemoglobin A/F Ratio in Neonates at 7 Days Correlated with Birth Weight and Estimated Gestational Age Thomas, S.; Drew, R.; Ersser, R.; Hjelm, M.; Stephens, A. 144
Haemoglobinopathy Screening in a ‘Low-Risk’ Area of the United Kingdom:
South Glamorgan, Wales
Thalassaemia
The Origin of Mutant β-Globin Genes in Human Populations
Wainscoat, J.S 154
Approach to the Diagnosis of β-Thalassaemia by DNA Analysis
Thein, S.L.; Weatherall, D.J 159
Prevention of Thalassaemia and Haemoglobin S Syndromes in Greece
Fessas, P 168
α-Thalassaemia and the Malaria Hypothesis
Hill, A.V.S.; Flint, J.; Weatherall, D.J.; CleGG, J.B 173
Can Automated Haematology Analysers Discriminate Thalassaemia from Iron Deficiency?

Sickle Cell Disease
Genetic Heterogeneity of Sickle Mutations
Labie, D.; Nagel, R.L 184

Avascular Necrosis of the Femoral Head in Sickle Cell Syndrome: A Report of 5 Cases
Rand, C; Pearson, T.C.; Heatley, F.W 186

Clinical Management of Severe Sickle Cell Disease
Yardumian, A.; Davies, S.C 193

Transfusion and Exchange Transfusion in Sickle Cell Anaemias, with Particular Reference to Iron Metabolism
Porter, J.B.; Huehns, E.R 198

Iron Overload and Iron Chelation Therapy in Thalassaemia and Sickle Cell Haemoglobinopathies
Pippard, M.J 206

Iron Overload
Orally Active Alpha-Ketohydroxypyridine Iron Chelators: Effects on Iron and Other Metal Mobilisations
Kontoghiorghes, G.J. 212

In vivo Evaluation of Hydroxypyridone Iron Chelators in a Mouse Model

Abstracts 222
Author Index 224