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Education and Employment

- 1998-present Junior Staff Scientist. MetroHealth Medical Center, Cleveland, OH
- 1993-1998 Postdoctoral Fellow in Dr. U. Rutishauser's Laboratory, Dept. of Genetics, Case Western Reserve University, Cleveland, OH.
- 1987-1993 Ph.D. in Biochemistry and Molecular Biology, Dept. of Biochemistry & Molecular Biology, Medical College of Georgia, Augusta, GA.
- 1982-1987 M.S. of Medicine in Medical Genetics and Associate Lecturer, Dept. Medical Genetics, Xinjiang Medical College, Urumqi, Xinjiang, China.
- 1978-1982 B.S. in Biology, Dept. Biology, Qufu Teachers' College, Qufu, Shandong, China.

Special Courses

- 1996 Neurobiology: Brain Development and Function, Cold Spring Harbor Laboratory.
- 1997 Carolina workshop on transgenic mice and gene targeting in ES cells.

Honors

- 1994-1996 NIH Research Fellowship
- 1993-1994 Markey Foundation Fellowship
- 1988 Young Scientist Award (Chinese Association of Science and Technology)

Publications

Hu, H. Cell surface heparan sulfate is involved in repulsive guidance activities of Slit2 protein. *Nature Neurosci.* 4(7):695-701, 2001.

Hu, H. Polysialic acid regulates chain formation by migrating olfactory interneuron precursors. *J. Neurosci. Res.* 61(5): 480-492, 2000.

Hu H. Chemorepulsion of neuronal migration by Slit2 in the developing forebrain. *Neuron* 23(4):703-711, 1999.

Hu H and Rutishauser U. A septum-derived chemorepulsive factor for migrating olfactory interneuron precursors. *Neuron* 16(5):933-940, 1996.

Hu H, Tomaszewicz H, Magnuson T and Rutishauser U. The role of polysialic acid in migration of olfactory interneuron precursors in the subventricular zone. *Neuron* 16(4):735-743, 1996.

Wilson JB, Webber BB, Hu H, Kutlar A, Kutlar F, Codrington JF, Prchal JT, Hall KM, de Pablos JM, Rodriguez I and Huisman THJ Hemoglobin Birmingham and Hemoglobin Galicia: two unstable β chain variants characterized by small deletions and insertions. *Blood* 75(9):1883-1887, 1992.

Kutlar F, Felice AE, Grech JL, Bannister WH, Kutlar A, Wilson JB, Webber BB, Hu H and Huisman THJ The linkage of Hb Valletta [α 2 β 287(f3)Thr----Pro] and Hb F- Malta-I [α 2G γ 2117(G19)His----Arg] in the Maltese population. *Hum.Genet.* 86, 591-594, 1991.

Kattamis C, Hu H, Cheng G, Reese AL, Gonzalez-Redondo JM, Kutlar A, Kutlar F, and Huisman THJ Molecular characterization of β -thalassaemia in 174 Greek patients with thalassaemia major. *Br. J. Haemat.* 74:342-346, 1990.

Villegas A, Martin G, Wilson JB, Webber BB, Hu H, Kutlar A, Kutlar F, and Huisman THJ Hb Extremadura, a new mildly unstable hemoglobin in a Spanish female. *Hemoglobin* 13(5):505-508, 1989.

Ulakutlu L, Ozsahin H, Wilson JB, Webber BB, Hu H, Kutlar A, Kutlar F and Huisman THJ Hb Brockton observed in a Turkish girl. *Hemoglobin* 13(5):509-513, 1989.

Martins MC, Rosado L, Wilson JB, Kutlar A, Hu H, and Huisman THJ Hb Himeji in a Portuguese family. *Hemoglobin* 13(4): 411-415, 1989.

Bird AR, Elliott T, Wilson JB, Webber BB, Hu H, Kutlar A, Kutlar F, and Huisman THJ Two Rare Unstable β Chain Variants, Hb and Hb Djelfa, each being observed for the second time. *Hemoglobin* 13(2):193-197, 1989.

Kutlar A, Kutlar F, Aksoy M, Gurgey A, Altay C, Wilson JB, Diaz-Chico JC, Hu H and Huisman THJ β -thalassemia intermedia in two Turkish families is caused by the interaction of Hb Knosos and of Hb City of Hope with β -thalassemia. *Hemoglobin* 13(1):7-16, 1989.

Gonzalez-Redondo JM, Stoming TA, Kutlar F, Kutlar A, Hu H, Wilson JB, and Huisman THJ Hb Monroe, a variant associated with β -thalassemia due to a G \rightarrow C substitution adjacent to the donor splice site of the first intron. *Hemoglobin* 13(1):67-74, 1989.

Kutlar F, Gu LH, Hu H, and Huisman THJ Quantitation of hemoglobin Bart's, H, Portland-I, Portland-II and constant spring by anion exchange high performance liquid chromatography. *J. Chromatography* 487:265-274, 1989.

Malcorra-Aziazu JJ, Balda-Aguirre MI, Diaz-Chico JC, Hu H, Wilson JB, Webber BB, Kutlar F, Kutlar A and Huisman THJ Hb Las Palmas, a mildly unstable hemoglobin variant. Hemoglobin 12(2):163-170, 1988.

Jogessar VB, Westeimeyer K, Webber BB, Wilson JB, Hu H, Gonzalez-Redondo JM, Kutlar A and Huisman THJ Hb Natal: a high oxygen affinity alpha chain variant with a deleted carboxyterminus resulting from a TAC→ TAA (Tyr-terminating codon) mutation in codon alpha 140. BBA 915:36-41, 1988.

Altay C, Gurgey A, Wilson JB, Hu H, Webber BB, Kutlar F and Huisman THJ Hb F-Baskent or $\alpha 2A\gamma 2128(H6)Ala \rightarrow Thr$. Hemoglobin 12(1): 87-89, 1988.

Beris P, Miescher PA, Diaz-Chico JC, Han I-S, Kutlar A, Hu H, Wilson JB and Huisman THJ Inclusion body β -thalassemia trait in a Swiss family is caused by an abnormal hemoglobin (Geneva) with an altered and extended β chain carboxy-terminus due to a modification in codon β 114. Blood 72(2):801-805, 1988.

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Malcorra-Azpiazu JJ Balda-Aguirre MI, Diaz-Chico JC, Kutlar F, Kutlar A, Wilson JB, Hu H and Huisman THJ. Hb Le Lamentin found in a Spanish family. Hemoglobin 12(2F):201-205, 1988.

Ali MAM, Pinkenton P, Chow SWS, Zaetz SD, Wilson JB, Webber BB, Hu H, Kutlar A, Kutlar F & Huisman THJ Some rare hemoglobin variants with altered oxygen affinities Hb Linkoping, Hb Caribbean, and Hb Sunnybrook. Hemoglobin, 12(2):137-148, 1988.

Kutlar A, Kutlar F, Wilson JB, Webber BB, Hu H & Huisman THJ Hb F-Austell or $\alpha 2G\gamma 240(C6)Arg \rightarrow Lys$. Hemoglobin 12(4):409-411, 1988.

de Pablos JM, Kutlar A, Wilson JB, Webber BB, Hu H and Huisman THJ Hb D-Granada or alpha 2 beta 2 22(B4)Glu----Val. Hemoglobin 11(6):563-565, 1987

Hu H and Ma M Hb F-Xinjiang or $A\gamma T 25(B7)Gly \rightarrow Arg$: a new slow-moving unstable fetal hemoglobin variant. Hemoglobin 11(5):465-472, 1987.

Ma M, Hu H, Kutlar F, Wilson JB and Huisman THJ Hb F-Xin-Su or $A\gamma T 74(E17)Asp \rightarrow His$: a new slow-moving fetal hemoglobin variant. Hemoglobin 11(5):473-479, 1987.

Hu H and Ma M Hb F-Urumqi $G\gamma I 22(B4)Asp \rightarrow Gly$: a new fetal hemoglobin variant found in a Uygur baby. Hemoglobin 10(1):15-20, 1986.