

# WORLD NEPHROLOGY CONGRESS

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## *Ghodrat A Siami*

Vanderbilt School of Medicine, USA

### Progress on 100 years of blood purification

First plasma separation was done by Abel in 1913 USA. Rosenberg and Yurevitch performed the first plasmapheresis in 1913 in St. Petersburg, Russia. The 100 years anniversary was celebrated in April 2013 in St. Petersburg Russia. I was the Congress Chair Person. Phlebotomy was first used in 1520 and we still use it to treat familial hyperchromatosis. Blood letting was the ancient way to treat patients. Leeches were also used to remove blood. Transfusion from animal to human was performed in 17 century. Moravits transfused RBC from one dog to another in 1906. The first transfusion was performed in Cleveland, Ohio in 1906. Haas performed dialysis in a dog in 1914 and

in human in 1924. Cohn used blood component in WWII. Rotating Drum was used by Kolffin 1942. Nose used artificial liver in 1960. Malchesky did the first membrane, Thermo-filtration, and Cryojel removal in the USA in 1978. Agishi, from Japan, performed double filtration in 1980. Siami developed Cryo-filtration, and tandem with hemodialysis in USA. Eight types of LDL pheresis was developed. Today, we are able to do many advanced apheresis, Photo-pheresis Cryo-filtration, chemo and Immuno-adsorption. Today we have developed many advances in Blood Purification to treat many diseases, specially many different immuno-adsorption columns for diseases specific to the patient. They all proven to be effective and safe.

### Biography

Ghodrat A Siami is a professor of Medicine and Nephrology at Vanderbilt School of Medicine. He was promoted to Professor Emeritus in 2011, received 50 years Service Award from AMA, and published more than 100 Abstracts, original papers, editorials and book chapters. He was President of International Society for Apheresis and Vice President of World Apheresis Association. He is on Editorial board of several journals and Reviewer for FDA. He is now a Emeritus member of ASN, ISN, and Emeritus Board member of ISFA. He was invited by NIH to teach Nephrology at Tehran School of Medicine and is Invited Speaker in more than 100 Congress all around the world. He Chaired Celebration of 100 years plasmapheresis Congress in Saint Petersburg Russia. He has been KEYNOTE speaker opening several World Nephrology Congress over the last several years.

[ghodrat.siami@Vanderbilt.Edu](mailto:ghodrat.siami@Vanderbilt.Edu)