

History in Nephrology

Legends whose contributions inspire us even today!

Renal Anemia

Hypoxia – Inducible Factor (HIF)

Renal anemia was elucidated by Allan J. Erslev (1953) through the discovery of erythropoietin deficiency in kidney disease

Hypoxia – Inducible Factor (HIF)in renal anaemia



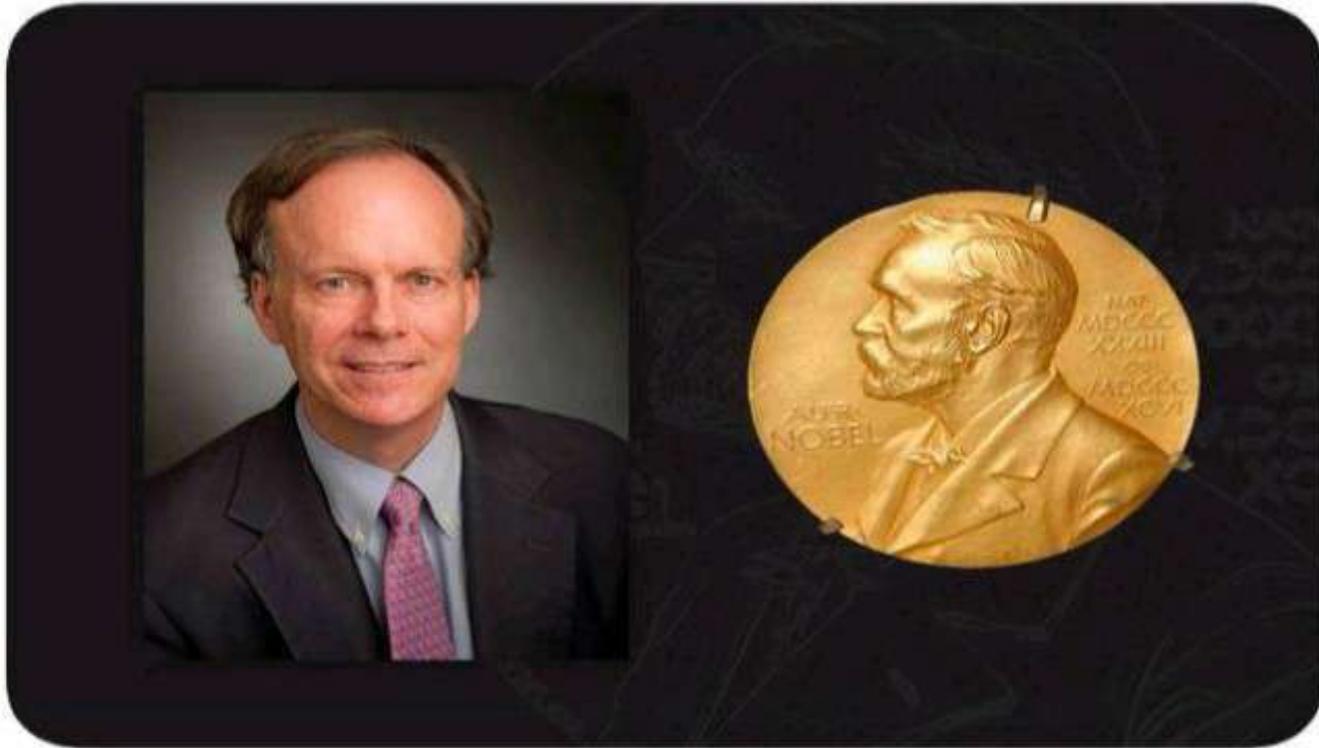
Gregg L. Semenza (1992-1995)

Discovered HIF-1 and showed how hypoxia regulates Erythropoietin (EPO) gene expression



Sir Peter J. Ratcliffe

Demonstrated that oxygen sensing via HIF operates in the kidney, directly linking HIF to renal EPO production and renal anaemia



William G. Kaelin Jr.

Elucidated the VHL – HIF degradation pathway, explaining how HIF is regulated by oxygen