Neurosciences

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In 1961 Dr. Willem J. Kolff invented the dialysis machine, the forerunner of the hemodialysis machine that today extends the lives of thousands of people with end-stage renal disease. His key insight was to see the potential for fluid exchange across a membrane as a way to treat patients with a wide range of problems. The dialysis concept has since been applied to a variety of treatments, including the treatment of cancer and transplantation-related events. The University of Washington in Seattle, where Dr. Kolff was a professor, has been at the forefront of this research and development. This year, the university will celebrate its 100th anniversary, and it has plans to honor Dr. Kolff’s contributions with a special event. The event will include a reception, a dinner, and a panel discussion featuring leading experts in the field of renal dialysis.

COVER
Horizontal section through a rat brain showing immunocytochemical localization (blue stain) of a neuronal phosphoprotein. This protein, DARPP-32, is enriched in neurons of the basal ganglia, which are involved in the pathophysiology of Huntington’s disease and Parkinson’s disease. Many such brain phosphoproteins have been found which play important roles in the function of nerve cells. See page 1357.
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