Lawrence Goldstein, Ph.D., director of the new Sanford Stem Cell Clinical Center and scientific director of the Sanford Consortium for Regenerative Medicine, has created, for the first time, stem cell-derived models of sporadic and hereditary Alzheimer’s disease using induced pluripotent stem cells from patients with AD. These functional neurons in a dish promise to be an unprecedented tool for developing and testing drugs to treat patients.

Steffanie Strathdee, Ph.D., mobilizes binational collaborations and students to reach out to drug users and sex workers on the Mexico–U.S. border. Her work with these underserved and marginalized populations, local police, federal authorities and nongovernmental organizations provides critical information for public policy.

Targeted drugs that treat specific tissues are often attacked by the body’s immune system. The researchers directed by Liangfang Zhang, Ph.D., approach the problem from an engineering perspective and bypass the biology. They fool the immune system by using natural red blood cell membranes to camouflage nanosponges that deliver drugs and soak up toxins.

Stealthily Delivering Drugs

Grassroots Global Health

Fighting HIV and sexually transmitted infections means hitting the streets. Steffanie Strathdee, Ph.D., mobilizes binational collaborations and students to reach out to drug users and sex workers on the Mexico–U.S. border. Her work with these underserved and marginalized populations, local police, federal authorities and nongovernmental organizations provides critical information for public policy.


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