

A Postdoctoral Position is available in the Department of Dermatology at UC San Diego in the Altman Clinical and Translational Research Institute. Our laboratory is interested in understanding the molecular mechanisms governing how epidermal stem cells self-renew and differentiate. Our model system involves using regenerated human skin that we genetically manipulate to determine the impacts of gene loss or gain of function on skin regeneration. Recently we have discovered several key proteins that degrade differentiation specific mRNAs to allow for epidermal stem cell self-renewal (Cell Stem Cell and Molecular Cell). We have also cloned out human specific genes that may contribute to the development of human skin (our skin is very different from murine skin). We are expressing these human specific genes to determine if we can convert murine skin to human. The successful candidate will choose from a variety of projects in the lab to work on.

For an example of our most recent work please use this link:

<https://www.nature.com/articles/s41467-021-21067-w>

Successful candidates should have a PHD, MD, or equivalent degree with training in Molecular Biology, Genetics, Developmental Biology, Bioinformatics, Stem Cell Biology, mouse work, and mammalian cell culture. The candidate must have documented peer-reviewed research productivity.

If interested, please send CV and cover letter providing information on research background, interests, and contact information for 3 references to Dr. George Sen ([gSen@health.ucsd.edu](mailto:gSen@health.ucsd.edu)).

For more information about the lab please visit our website: <https://medschool.ucsd.edu/som/dermatology/research/labs/sen-lab/Pages/default.aspx>