We are looking for a biologist & a Post-Doc

Who we are:
We are a young international team. We work on **Dendritic cells** and on the **transcriptional regulation of lineage commitment** within the NIH (NIDCR). You can find more information on our group "Immune Regulation Unit" on this link https://www.nidcr.nih.gov/research/research-conducted-by-nidcr/investigators/roxane-tussiwand-phd.

Looking for:
We are seeking for a highly motivated biologist who has the desire to learn more about the immune system, and a **post-doctoral scientist** with a strong background in immunology and in vivo experience. Each candidate will be evaluated based on her/his background/training. Experience in tissue processing and mouse handling is valued but candidates with limited experience will be considered. NIH experience is desirable but not necessary. We need enthusiasm and a lot of passion for immunology!

Projects

Dendritic cells (DC)
Dendritic cells are key players of the immune system. In peripheral tissues DCs capture antigens and present it to T cells. During infections or inflammation DCs initiate and orchestrate adaptive immunity by recognizing pathogens, secreting cytokines and shaping the appropriate inflammatory milieu. Our group is studying the different DC subsets: how they develop and how they function under steady state as well as under inflammatory conditions. **You will be working with newly generated mouse lines and determine the functional properties of DC subsets in the context of different infectious and inflammatory models.**

Early hematopoietic lineage commitment
The first choice during lineage commitment appears to split myeloid from lymphoid development. However, increasing evidence suggests that lympho-myeloid diversification is not as restrictive. An unexpected heterogeneity characterizes mature subsets. We aim to understand how lymphoid and myeloid commitment is transcriptionally defined and whether the lineage of origin translates into specialized functional properties across different subsets. **Using different genetic models of lineage tracing you will follow the fate of specific subsets and determine their functional properties.**

Tasks:

- Work independently and together with the different team members.
- The candidate will have her/his independent project and will be expected to lead and present it to the group and to the scientific community within and outside the NIH.
- Analyze experiments, determine, and verify the validity of the generated data, compare results across experiment and in reference to existing published data.
- Present the results to the principal investigator and other scientific personnel interested in the project.
- Anticipate future as well as current requirements for supplies and equipment as projects proceed.

- Organize and maintain together with the group the research laboratory.
- Ensure laboratory compliance with applicable regulations, policies and guidelines.

If you think you are the right person, please send an email (roxane.tussiwand@nih.gov) as a single PDF file including – CV; Research statement (Max 0.5 pages)- 2/3 Contacts for references