

Postdoctoral Associate in Pediatrics– Clinical Translational Research in Sex Chromosome Aneuploidies

Project Description

The eXtraOrdinarY Kids Research team is seeking a Postdoctoral Associate to join our funded program investigating the clinical and biological implications of having an atypical number of X and/or Y chromosomes. Sex chromosome aneuploidies (SCAs)—including Klinefelter (47,XXY) and Turner (45,X and variants) syndromes—are multisystem conditions marked by substantial heterogeneity in health and developmental outcomes across the lifespan.

The successful candidate will collaborate with clinician–scientists to design and lead a project that aligns with their career development goals while advancing the team’s mission to promote clinical trial readiness and precision care for individuals with rare genetic conditions. Opportunities exist to study genetic and hormonal contributions to sex differences, explore lifecourse perspectives, and engage in translational collaborations bridging clinical care and basic science. Extensive existing datasets and biospecimens are available, including deep neurodevelopmental and metabolic phenotyping, imaging, multi-tissue -omics, longitudinal clinical data, and a large patient population.

This is a full-time position for 1–3 years (with renewal contingent on performance and funding). The position is based in-person at the University of Colorado Anschutz Medical Campus in Aurora, CO; flexible or hybrid arrangements may be considered for exceptional candidates.

The Lab

The eXtraOrdinarY Kids Clinic and Research team at the University of Colorado Anschutz Medical Campus and Children’s Hospital Colorado is an interdisciplinary clinical translational research group dedicated to improving outcomes for individuals with SCAs across the lifespan. Our work bridges clinical care and discovery, integrating genetic, hormonal, developmental, and psychosocial perspectives to address real-world questions raised in the clinic. We design studies that integrate rich clinical phenotyping with quantitative and qualitative analytic approaches to address these questions and accelerate progress toward precision medicine for rare conditions. We prioritize a collaborative, supportive, and inclusive lab culture that values mentorship and professional growth. Team members are encouraged to pursue innovative ideas, develop new skills, and contribute to projects that align with their career goals. Learn more about our team and ongoing projects at www.extraordinarykidsclinic.org.

Professional Development Opportunities

The eXtraOrdinarY Kids Clinic and Research Program is committed to supporting trainees pursuing both academic and non-academic career paths. Postdoctoral associates will benefit from:

- Individualized mentorship from a primary mentor and an interdisciplinary advisory team.
- Training within a collaborative environment with expertise spanning child development, endocrinology and metabolism, and data science.
- Abundant opportunities for scientific writing, publications, and presentations, including funding for attendance and presentation at national conferences.
- Opportunities to mentor undergraduate and graduate trainees.

Campus Environment

CU Anschutz provides a wide range of career development programs in industry, science communication, policy, and more (<https://www.cuanschutz.edu/offices/career-development>). Postdocs are encouraged to incorporate these resources into their training based on career goals. Salary will



follow current NIH scales, and CU Anschutz offers competitive benefits (<https://www.cuanschutz.edu/offices/postdoc/postdocs/current-postdocs>).

Ideal Candidate

Applicants must have:

- PhD, MD, or equivalent in a relevant field (e.g. genetics, physiology, endocrinology, psychology, endocrinology, epidemiology, data science, or related discipline).
- Expertise in a field, technique, or methodology that complements the group's existing scope and enhances the team's ability to pursue translational, lifecourse, or mechanistic questions.
- Interest in working collaboratively on a multidisciplinary, clinically oriented team.
- Strong analytical, writing, and communication skills.
- Experience with clinical translational and/or rare disease research (preferred).
- Demonstrated skills in data analysis (R, SAS, or equivalent) and scientific writing (preferred).

To Apply

Interested applicants should submit a cover letter describing research interests and career goals, a CV, and contact information for three references to Dr. Shanlee Davis at Shanlee.Davis@cuanschutz.edu. Review of applications will begin immediately and continue until the position is filled.