Postdoctoral Position – Influence of Diet & Exercise on the Sperm Epigenome

Position description
A postdoctoral scientist position is available immediately in the laboratory of Dr. John McCarrey in the Department of Biology at the University of Texas at San Antonio (UTSA) (https://www.utsa.edu/biology/faculty/McCarreylab/index.html) to work on an NIH-funded project examining the effects of diet and exercise on the sperm epigenome and the potential for lifestyle-induced epimutations to be transmitted to subsequent generations. This project is part of the NIH-funded National Center for Male Reproductive Epigenomics (https://ncmrep50.com) which, in turn, is part of the consortium of National Centers for Translational Research in Reproduction and Infertility (NCTRI) supported by the NICHD (https://www.nichd.nih.gov/research/supported/NCTRI).

Primary responsibilities will include performing epigenomic profiling of samples from mice and men based on omics assays to assess gene expression, DNA methylation, chromatin accessibility, histone modifications, and/or specific transcription factors. This effort is an organized collaboration with scientists at UCLA that will provide an unprecedented assessment of the impact of diet and exercise on the sperm epigenome. The outcome of this study will indicate the extent to which men planning to father children should carefully monitor their diet and exercise regime prior to conceiving their children. The position will require a minimum commitment of two years with the potential to be extended based on performance and funding.

Candidate qualifications
A PhD or equivalent degree in a relevant field of biological/biomedical science is required. Highly motivated applicants should have a record indicative of a strong work ethic and productivity.

Preferred qualifications
Prior experience in preparing sequencing-ready libraries for assessments of epigenetic parameters genome-wide, and/or computational skills that can be used to interpret the resulting sequencing data are highly desirable.

Setting
UTSA is a rapidly growing university with a vibrant research community pursuing a variety of biomedical and bioengineering topics. Nine research cores, including a Genomics/Epigenomics Core, support cutting-edge research with state-of-the-art instrumentation. 33 Centers & Institutes promote research in a wide variety of areas. San Antonio is a vivacious multicultural city located on the edge of the Texas Hill Country featuring excellent weather, a low cost of living, historic landmarks such as the Alamo, the famous Riverwalk, and countless outdoor, cultural, dining, and entertainment opportunities.

To Apply
Please send your 1) CV, 2) names and contact information for 3-5 references, and 3) a cover letter explaining why you feel you are qualified for this position to john.mccarrey@utsa.edu. Applications will be reviewed immediately until the position is filled. Informal inquiries are welcome and additional details are available upon request.