

## **Job Advertisement**

**Harold Hamm Diabetes Center -University of Oklahoma Health Sciences Center  
Oklahoma City, OK**

**COLLEGE/DEPARTMENT: College of Medicine, Department of Physiology**

**HIRING UNIT: Harold Hamm Diabetes Center**

**POSITION TITLE: POST-DOCTORAL FELLOW/TRAINEE**

**POSITION CLASSIFICATION: RESEARCH FACULTY**

### Overall Description of Responsibility or Nature of Work

Postdoctoral Fellowships are available in the laboratory of Dr. Michael C. Rudolph in the College of Medicine at the University of Oklahoma Health Sciences Center. As Choctaw Nation Chair in Adult Endocrinology in the Harold Hamm Diabetes Center, Dr. Rudolph is seeking highly motivated and independent postdoctoral fellows with expertise in application of Indirect Calorimetry to investigate the metabolic relationship between early life nutrition, energy balance, fuel utilization, and early-life nutrient exposures that can offer protection against later-life obesity. Our focus is on cellular and molecular basis for adipogenesis during development, and effects of maternal metabolism on milk composition, using both mouse models and human studies (PMID: 33216249, 33135728, 27876761, 29138256). Expertise in one or more areas of molecular and cellular metabolism is preferred, including metabolic phenotyping, flow cytometry, standard molecular biology techniques (qPCR, immunoblotting, biomolecule extractions, etc.), and routine cell culture is desired. Our applications of RNA sequencing (bulk and single cell), DNA methylation sequencing, lipidomics/metabolomics, and indirect calorimetry assays provides a rich training environment for career development. A working knowledge of the R-programming environment is desirable.

The position requires working with mouse models as well as collaborative work in human infant and maternal samples. Recent PhD graduates are encouraged to apply. More experienced candidates are expected to have demonstrable publication record. The research will provide opportunities to have major, positive impacts on human medicine by investigating how maternal obesity impacts infant metabolic set points during early life nutrition, and mechanisms through which breast milk constituents protect against excessive adiposity by activating thermogenic metabolism. The ideal candidate will be reliable, personable, highly motivated, and have demonstrated the ability to work independently among collaborative investigators. This is an excellent opportunity to join a highly integrative, translational, and productive research group. (<https://www.ouhealth.com/harold-hamm-diabetes-center/diabetes-research/> )

### Qualifications:

#### **Minimum Requirements:**

- Graduation from an accredited college or university with a PhD in nutrition, physiology, molecular biology, biochemistry, cell biology, or closely related fields.
- Minimum of 1-2 year(s) experience in working with mouse models relevant to obesity.
- Familiarity with metabolic mouse phenotyping of obesity including endocrine assessment.

- Excellent communication and teamwork skills.
- Proven ability to work independently within a research and clinical lab.
- Demonstrated proficiency in computer software (Microsoft Office, PRISM, etc.), standard laboratory equipment operation, and research technical skills.

Desired or preferred:

- Additional experience with R-programming.
- Advanced techniques in DNA mapping, ChIP-sequencing, or ATAC-sequencing.
- Experience in Genomics/Lipidomics/Metabolomics?
- Strong history mentoring and supervising students.

**Salary & Benefits:** Salary will be based on the NIH stipend scale and will be commensurate with skills and experience. The University of Oklahoma Health Sciences Center offers postdocs most employee benefits.

**Application:**

- Applicants may apply directly to Dr. Rudolph: [michael-rudolph@ouhsc.edu](mailto:michael-rudolph@ouhsc.edu).
- Applications will be evaluated on a rolling basis until the position is filled.
- Required application materials:
  - 1) Cover letter
  - 2) Resume/Curriculum Vitae
  - 3) Contact information for a minimum of [3] professional work references

**Special Notices to Applicants:**

The University of Oklahoma medical campus is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final applicants being considered for employment. Background investigations include a criminal history record check, and when appropriate, a financial and/or motor vehicle history.

The Immigration Reform and Control Act requires that verification of employment eligibility be documented for all new employees by the end of the third day of work. The University of Oklahoma strongly supports the principle of diversity. The University of Oklahoma is an Equal Opportunity Institution. Protected veterans and individuals with disabilities are encouraged to apply.

Please be advised that the University does check references as part of the employment process, and selection committee members may choose to contact work references during the search process other than those listed in your application.

The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer <http://www.ou.edu/eoo/> . Protected veterans and individuals with disabilities are encouraged to apply.