



Thomas Jefferson University
Sidney Kimmel Medical College

LC-MS Approach on Genome-Wide RNA Epigenetic Biology

An NIH-funded postdoc position with expertise in analytical chemistry and/or LC-MS is available with Professor Ya-Ming Hou at Thomas Jefferson University, Philadelphia. We focus on how epigenetic RNA modifications control human health and disease. We study the epigenetic biochemistry and biology in tRNA, rRNA, and mRNA. We explore the questions of how cells use RNA modifications to:

- Develop resistance to antibiotics?
- Regulate the quality of protein synthesis?
- Resolve codon usage bias and fitness?
- Control the proteome of neurodegenerative diseases?

For more information, please see the following publications and our website:

J. Mol Biol. (2022). PMID: [34995554](#)

eLife (2021). PMID: [34382933](#)

Nat Communications (2021). PMID: [33436566](#)

Cell Chem Biol (2020). PMID: [32553119](#)

ACS Catal (2020). PMID: [32904895](#) (Featured as the cover)

Ann Neurol (2020). PMID: [32715519](#)

Cell Systems (2019). PMID: [30981730](#) (Featured in Faculty 1000 Prime)

PNAS (2016). PMID: [27849575](#) (Featured in PNAS commentary)

Nat Struct Mol Biol (2016). PMID: [27571175](#). (Featured in Science)

Nature Communications (2015). PMID: [26009254](#)

Chem and Biol (Cell Press) (2014). PMID: [25219964](#)

Nature (2014). PMID: [24919148](#) (Featured in Nature News and Views)

<https://houlaboratory.com/research>

<https://www.jefferson.edu/university/research/researcher/researcher-faculty/hou-laboratory.html>

Candidates with a recent Ph.D. in analytical chemistry and LC-MS are encouraged to apply. Please send a cover letter, CV, and contact information of three references to:

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