

## Translational Research in Breast Cancer

The laboratory of [Carlos L. Arteaga, MD](#) in the [Harold C. Simmons Comprehensive Cancer Center](#) of UT Southwestern Medical Center is recruiting Postdoctoral Research Fellows.

Projects include:

- Discovery of mechanisms of resistance to antiestrogen therapy in breast cancer
- Genomic profiling of drug-resistant ER+ and triple negative breast cancer
- Mechanism of action of gain of function oncogenes in breast cancer and their use as predictive biomarkers of response to targeted therapies
- Mechanisms of action of and resistance to rational combinations of targeted therapies in breast cancer (focus on PI3K/AKT, mutant ERBB receptors, TGF $\beta$ , ER $\alpha$ , FGFR, CDK4)

Methods include gain-of-function ORF genome screens, next gen DNA sequencing, single cell RNAseq, structural modeling, shRNA and CRISPR screens, functional small animal imaging, molecular profiling and discovery using primary tumors from patients in clinical trials with targeted therapies, and studies with cell lines and xenografts (cell line and patient derived) using conditional shRNAs and targeted therapies in clinical development both *in vitro* and *in vivo*.

Recent relevant publications from the laboratory include:

- Sci Transl Med. 2017 Aug 9;9(402). pii: eaai7993. doi: 10.1126/scitranslmed.aai7993; PMID: 28794284
- Clin Cancer Res. 2017 Jul 27. doi: 10.1158/1078-0432.CCR-17-1232. [Epub ahead of print]; PMID: 27075627
- Sci Transl Med. 2016 Apr 13;8(334):334ra53. doi: 10.1126/scitranslmed.aad3001; PMID: 27075627
- Cancer Discov. 2017 Jun;7(6):575-585. doi: 10.1158/2159-8290.CD-16-1431. Epub 2017 Mar 8; PMID: 28274957

Applicants with a PhD, MD, or MD/PhD degree and a strong background in molecular biology and genomics with a strong interest in translational research are encouraged to apply.

Please forward your CV and names of two references to:

[Carlos L. Arteaga, MD](#)

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*UT Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans and individuals with disabilities are encouraged to apply.*



Dept Approval: \_\_\_\_\_  
Carlos L Arteaga, MD

Postdoc Office Approval: \_\_\_\_\_