

Researcher Information Form

Name: Susan E. Waltz, PhD

Department/Division/College: Cancer Biology/COM

Room/Address:

The Vontz Center for Molecular Studies
Room 2328
University of Cincinnati College of Medicine
3125 Eden Avenue
Cincinnati, OH 45267-0521

Phone: 513-558-8675

Email: susan.waltz@uc.edu

Research Interest (1-2 Sentences):

Understanding the cell intrinsic and extrinsic mechanisms of growth factor and receptor tyrosine kinase signaling in the development and progression of hormonally regulated cancers.

Unique Resources/Techniques:

Cell lines, murine breast cancer models, orthotopic transplantation

Representative Publications (5 Maximum, May use Hyperlink):

[MST1R \(RON\) expression is a novel prognostic biomarker for metastatic progression in breast cancer patients.](#)

Hunt BG, Wicker CA, Bourn JR, Lower EE, Takiar V, Waltz SE.
Breast Cancer Res Treat. 2020 Jun;181(3):529-540. doi: 10.1007/s10549-020-05653-y. Epub 2020 Apr 27.
PMID: 32342233 **Free PMC article.**

[HGFL-mediated RON signaling supports breast cancer stem cell phenotypes via activation of non-canonical \$\beta\$ -catenin signaling.](#) Ruiz-Torres SJ, Benight NM, Karns RA, Lower EE, Guan JL, Waltz SE. Oncotarget. 2017 Jul 22;8(35):58918-58933. doi: 10.18632/oncotarget.19441. eCollection 2017 Aug 29. PMID: 28938607 **Free PMC article.**

[RON kinase: A target for treatment of cancer-induced bone destruction and osteoporosis.](#) Andrade K, Fornetti J, Zhao L, Miller SC, Randall RL, Anderson N, Waltz SE, McHale M, Welm AL. Sci Transl Med. 2017 Jan 25;9(374):eaai9338. doi: 10.1126/scitranslmed.aai9338. PMID: 28123075 **Free PMC article.**

[HGFL supports mammary tumorigenesis by enhancing tumor cell intrinsic survival and influencing macrophage and T-cell responses.](#)

Benight NM, Wagh PK, Zinser GM, Peace BE, Stuart WD, Vasiliauskas J, Pathrose P, Starnes SL, Waltz SE. *Oncotarget*. 2015 Jul 10;6(19):17445-61. doi: 10.18632/oncotarget.3641.

PMID: 25938541 **Free PMC article.**

[The DEK oncogene promotes cellular proliferation through paracrine Wnt signaling in Ron receptor-positive breast cancers.](#) Privette Vinnedge LM, Benight NM, Wagh PK, Pease NA, Nashu MA, Serrano-Lopez J, Adams AK, Cancelas JA, Waltz SE, Wells SI. *Oncogene*. 2015 Apr 30;34(18):2325-36. doi: 10.1038/onc.2014.173. Epub 2014 Jun 23. PMID: 24954505 Free PMC article.