

# Clinical trials of mTOR inhibitor for advanced breast cancer (metastatic) in HR+ HER2-

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## 1 combination with endocrine therapy

Trial	Treatments	Patients	Trials design and methods
<b>everolimus + exemestane vs capecitabine</b>			
<b>BOLERO-6 (combination)</b> <i>ongoing</i> [NCT01783444] n=NA follow-up:	Everolimus will oral 10 mg (2 5 mg) daily + Exemestane tablets of 25 mg will be taken orally once per day versus Capecitabine, oral 1250 mg/m <sup>2</sup> twice daily for 2 weeks followed by one week rest (3-week cycle)	Postmenopausal patients with estrogen-receptor positive, HER2 negative, advanced breast cancer after recurrence or progression on letrozole or anastrozole	
<b>everolimus + exemestane vs exemestane alone</b>			
<b>BOLERO-2, 2011</b> [NCT00863655] n=485/239 follow-up:	everolimus and exemestane versus exemestane and placebo	patients with hormone-receptor-positive advanced breast cancer who had recurrence or progression while receiving previous therapy with a nonsteroidal aromatase inhibitor in the adjuvant setting or to treat advanced disease (or both).	Parallel groups double-blind
<b>everolimus + letrozole vs letrozole alone</b>			
<b>BOLERO-4</b> <i>ongoing</i> [NCT01698918] n=NA follow-up:	-	Postmenopausal Women With ER+, HER2- Metastatic or Locally Advanced Breast Cancer	open-label
<b>temsirolimus + letrozole vs letrozole alone</b>			
<b>HORIZON, 2013</b> [NCT00083993] n=556/556 follow-up:	oral letrozole 2.5 mg daily/temsirolimus 30 mg daily (5 days every 2 weeks) versus letrozole/placebo	first-line endocrine therapy in postmenopausal women with locally advanced or metastatic breast cancer	Parallel groups double-blind
<b>everolimus + tamoxifen vs tamoxifen alone</b>			
<b>TAMRAD, 2012</b> [NCT01298713] n=54/57 follow-up:	tamoxifen 20 mg/d plus everolimus 10 mg/d versus tamoxifen 20 mg/d alone	postmenopausal women with hormone receptor-positive, human epidermal growth factor receptor 2-negative, AI-resistant mBC	open-label

## References

**BOLERO-6 (combination), :**

**BOLERO-2, 2011:**

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Beaver JA, Park BH, The BOLERO-2 trial: the addition of everolimus to exemestane in the treatment of postmenopausal hormone receptor-positive advanced breast cancer. Future Oncol 2012;8:651-7. [22764762] [10.2217/fon.12.49](#)

Piccant M, Hortobagyi GN, Campone M, Pritchard KI, Lebrun F, Ito Y, Noguchi S, Perez A, Rugo HS, Deleu I, Burris HA 3rd, Provencher L, Neven P, Gnant M, Shtivelband M, Wu C, Fan J, Feng W, Taran T, Baselga J Everolimus plus exemestane for hormone-receptor-positive, human epidermal growth factor receptor-2-negative advanced breast cancer: overall survival results from BOLERO-2. Ann Oncol 2014 Dec;25:2357-62 [25231953]

**BOLERO-4, :**

**HORIZON, 2013:**

Wolff AC, Lazar AA, Bondarenko I, Garin AM, Brincaat S, Chow L, Sun Y, Neskovic-Konstantinovic Z, Guimaraes RC, Fumoleau P, Chan A, Hachemi S, Strahs A, Cincotta M, Berkenblit A, Krygowski M, Kang LL, Moore L, Hayes DF Randomized phase III placebo-controlled trial of letrozole plus oral temsirolimus as first-line endocrine therapy in postmenopausal women with locally advanced or metastatic breast cancer. J Clin Oncol 2013;31:195-202 [23233719]

**TAMRAD , 2012:**

Bachelot T, Bourcier C, Cropet C, Ray-Coquard I, Ferrero JM, Freyer G, Abadie-Lacourtoisie S, Eymard JC, Debled M, Spath D, Legouffe E, Allouache D, El Kouri C, Pujade-Lauraine E, Randomized phase II trial of everolimus in combination with tamoxifen in patients with hormone receptor-positive, human epidermal growth factor receptor 2-negative metastatic breast cancer with prior exposure to aromatase inhibitors: a GINECO study. J Clin Oncol 2012;30:2718-24. [22565002] [10.1200/JCO.2011.39.0708](#)

## 2 About TrialResults-center.org

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The TrialResults-center database provides a unique view of the treatment efficacy based on all data provided directly from clinical trial results, offering a valuable alternative to personal bibliographic search, published meta-analysis, etc. Furthermore, it would allow comparing easily the various concurrent therapeutic for the same clinical condition.

Rigorous meta-analysis method is used to populate TrialResults-center: widespread search of published and non published trials, study selection using pre-specified criteria, data extraction using standard form.

TrialResults-center is continually updated on a weekly basis. We continually search all new results (whatever their publication channel) and these news results are immediately added to the database with a maximum of 1 week.

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