# Article information:

Targeting Androgen Receptor in Treating HER2 Positive Breast Cancer - PMC  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5674043/>

# Article summary:

1. Androgen receptor (AR) plays a role in promoting the growth of HER2 positive (+) breast cancer by cross-talking with the HER2 signaling.

2. Inhibiting AR with Enzalutamide, an anti-androgen drug, or AR shRNA can inhibit the growth of HER2 + BC cells and decrease HER2 phosphorylation and activation of Erk and Akt.

3. Combining Enzalutamide with trastuzumab, an approved HER2 targeted drug, further decreases the growth of HCC1954 and SKBR3 cells compared with single agent alone in vitro.

# Article rating:

Appears moderately imbalanced: The article provides some useful information, but is missing several important points or pieces of evidence that would be required to present the discussed topics in a balanced and reliable way. You are encouraged to seek a more balanced perspective on the presented issues by exploring the provided research topics and looking at different information sources.

# Article analysis:

该文章是一篇研究性质的论文，旨在探讨雄激素受体（AR）在HER2阳性乳腺癌治疗中的作用。然而，在阅读该文章时，我们需要注意到以下几点：

1. 偏见来源：该文章可能存在偏见，因为它只关注了AR在HER2阳性乳腺癌中的作用，而忽略了其他因素对肿瘤生长和治疗反应的影响。此外，该文章没有提及与AR相关的副作用和风险。

2. 片面报道：该文章只报道了实验结果支持AR抑制剂Enzalutamide可以抑制HER2阳性乳腺癌细胞生长，并且与Trastuzumab联合使用可以进一步降低肿瘤生长。然而，该文章没有提及任何不支持这些结果的实验或数据。

3. 无根据主张：该文章声称AR通过与HER2信号通路相互作用来促进HER2阳性乳腺癌细胞生长。然而，该主张缺乏充分的证据支持，并且需要更多的实验来验证。

4. 缺失考虑点：该文章没有考虑到其他因素对肿瘤生长和治疗反应的影响，例如肿瘤微环境、免疫系统和患者的基因型等。

5. 主张缺失证据：该文章声称Enzalutamide可以作为HER2阳性乳腺癌的替代二线治疗方案。然而，该主张缺乏充分的临床试验数据支持，并需要更多的实验来验证。

6. 未探索反驳：该文章没有探讨任何可能反驳其主张的观点或实验结果。

7. 宣传内容：该文章可能存在宣传内容，因为它只报道了AR抑制剂Enzalutamide在HER2阳性乳腺癌治疗中的积极作用，并没有提及任何负面结果或风险。

8. 偏袒：该文章可能存在偏袒，因为它只关注了AR在HER2阳性乳腺癌中的作用，并没有考虑其他因素对肿瘤生长和治疗反应的影响。

总之，尽管该文章提供了一些有趣的实验结果和初步结论，但我们需要注意到其中存在的偏见、片面报道、无根据主张、缺失考虑点、主张缺失证据、未探索反驳、宣传内容和偏袒等问题。我们需要更多的实验和临床试验来验证这些结论，并综合考虑其他因素对肿瘤生长和治疗反应的影响。

# Topics for further research:

* Other factors affecting tumor growth and treatment response
* Unbalanced reporting of experimental results
* Lack of evidence for claims about AR and HER2 signaling interaction
* Failure to consider other factors affecting tumor growth and treatment response
* Insufficient clinical trial data to support Enzalutamide as a second-line treatment for HER2-positive breast cancer
* Failure to explore potential counterarguments or conflicting experimental results

# Report location:

<https://www.fullpicture.app/item/362676a59e3ddef31d97a0304f50a620>