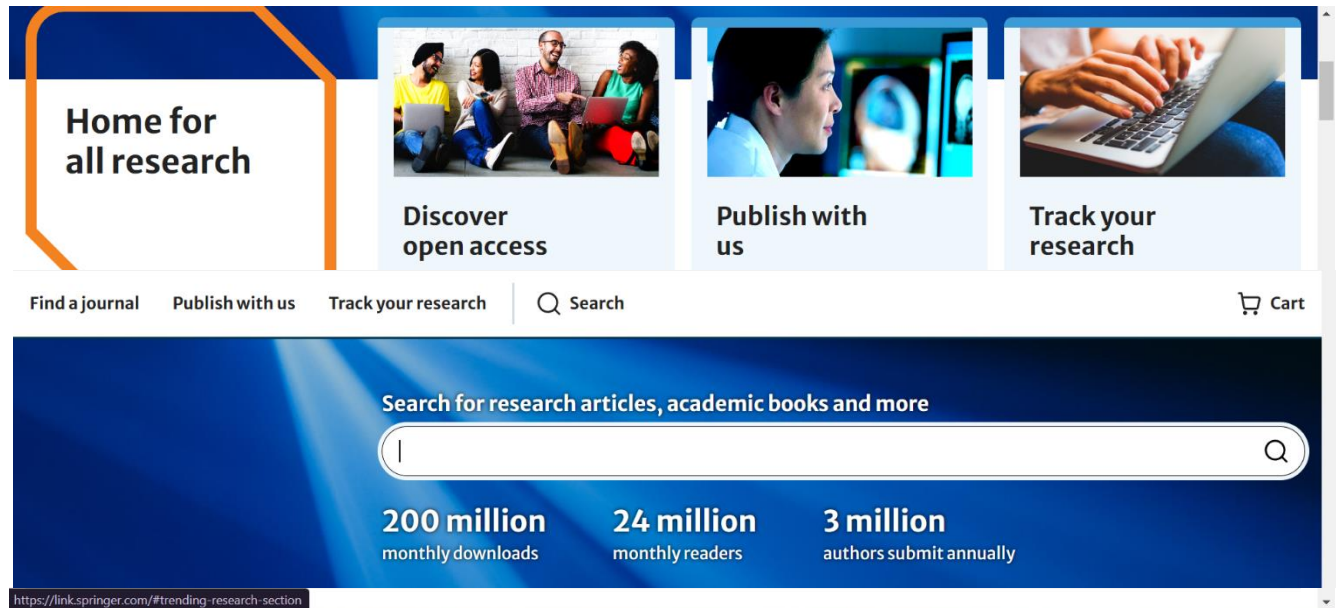
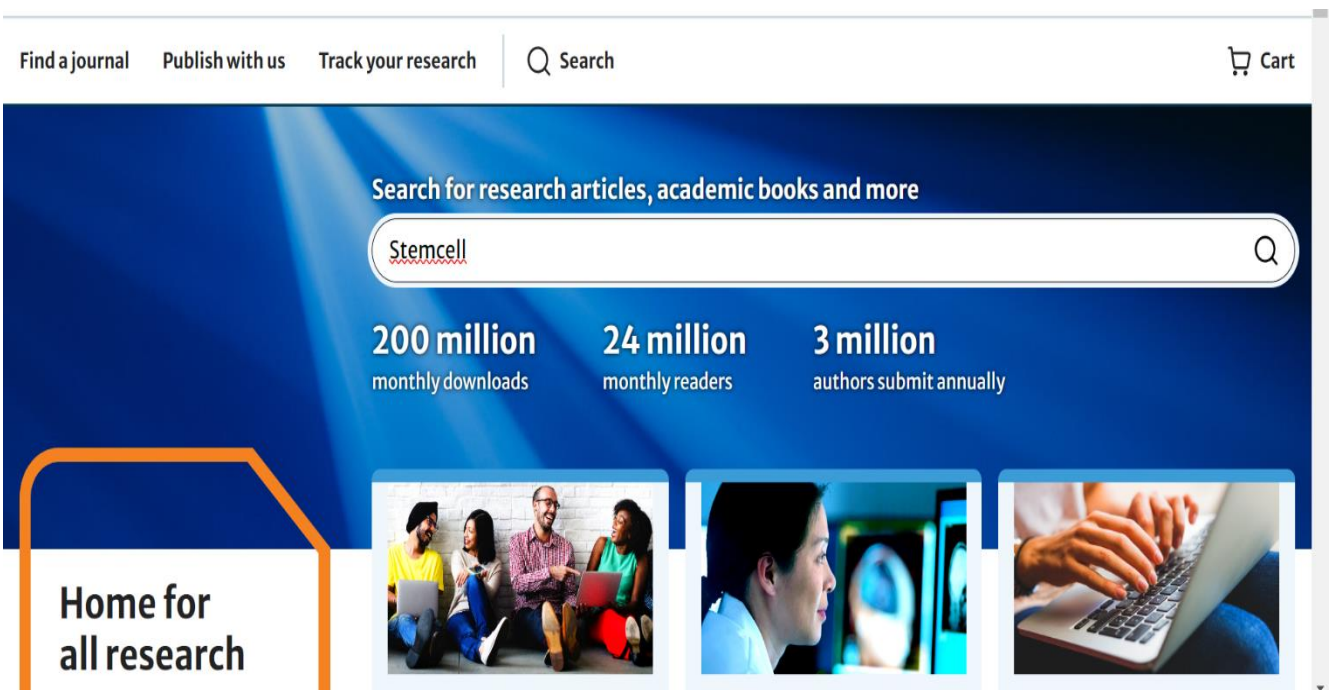


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## Circulating tumor cell gene expression and plasma AR gene copy number as biomarkers for castration-resistant prostate cancer patients treated with cabazitaxel

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### Abstract

#### Background

Cabazitaxel improves overall survival (OS) in metastatic castration-resistant prostate cancer (mCRPC) patients progressing after docetaxel. In this prospective study, we evaluated the prognostic role of CTC gene expression on cabazitaxel-treated patients and its association with plasma androgen receptor (AR) copy number (CN).

#### Methods

Patients receiving cabazitaxel 20 or 25 mg/sqm for mCRPC were enrolled. Digital PCR was performed to assess plasma AR CN status. CTC enrichment was assessed using the AdnaTest EMT-2/StemCell kit. CTC expression analyses were performed for 17 genes. Data are expressed as hazard ratio (HR) or odds ratio (OR) and 95% CI.

#### Results

Seventy-four patients were fully evaluable. CTC expression of AR-V7 (HR=2.52, 1.24–5.12,  $p=0.011$ ), AKRIC3 (HR=2.01, 1.06–3.81,  $p=0.031$ ), AR (HR=2.70, 1.46–5.01,  $p=0.002$ ),

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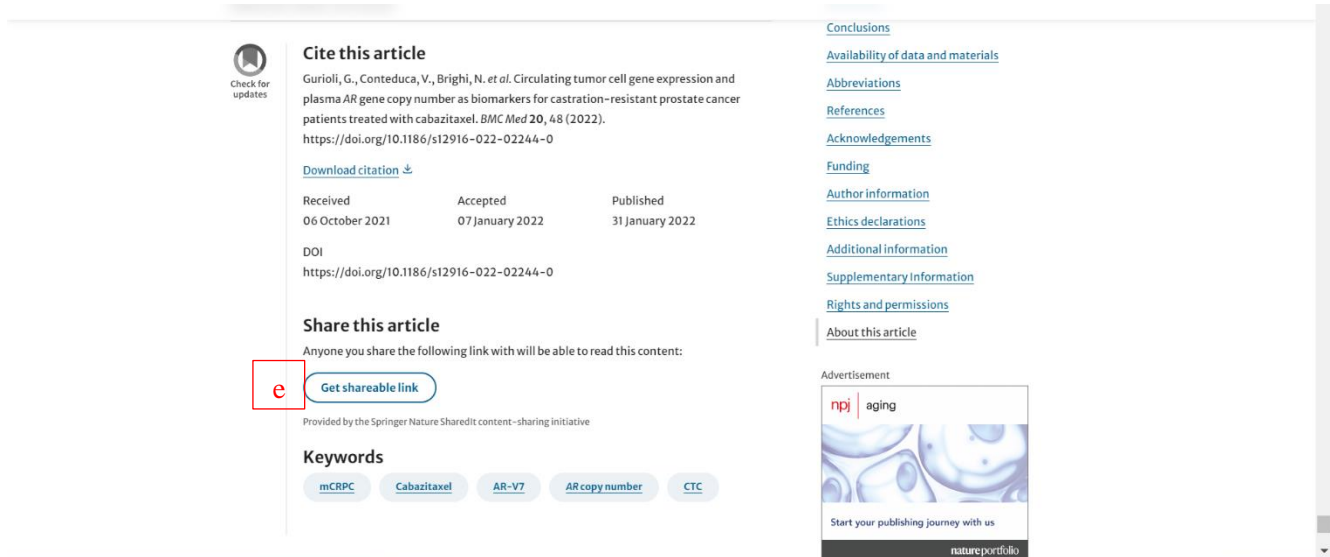
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