**Breast Cancer**

- **Triple negative breast cancer (TNBC)**
  - Locally advanced/metastatic TNBC
  - Hormone receptor positive (HR+)
  - Locally advanced/metastatic ER+ and/or PR+/HER2
  - Non HER2 positive with BRCA mutation
  - PTEN or PIK3CB mutation (TNBC or ER+/HER2-)
  - With residual cancer burden (TNBC or ER+ and/or PR+; HER2-BC)
  - Bone metastatic breast cancer (TNBC or ER+ and/or PR+)
  - HER2 positive
    - HER2 PIK3CA mutation, PTEN mutation or PTEN loss

**ETCTN Trials by Disease/Treatment Area: Breast Cancer**

- **10382**: A Phase III Trial Evaluating the Safety and Efficacy of Erbnilin in Combination with Copanlisib in Patients with Metastatic Triple Negative Breast Cancer (Phase 1: limited; Phase 2: ETCTN-wide)
- **10146**: Randomized Phase 2 Clinical Trial of Nab-Paclitaxel + MEDI4736 (Durvalumab) + Neoantigen Vaccine Vs. Nab-Paclitaxel + MEDI4736 (Durvalumab) in Patients with Metastatic Triple Negative Breast Cancer
- **9881**: A Phase 2 Study of Cediranib in Combination with Olaparib in Advanced Solid Tumors (4 cohorts: NSCLC, TNBC, PDAC, SCLC)
- **10287**: A Randomized Phase I/II Trial of Fulvestrant and Abemaciclib in Combination with Copanlisib (FAC) Versus Fulvestrant and Abemaciclib Alone (FA) for Endocrine Resistant, Hormone Receptor Positive, HER2 Negative Metastatic Breast Cancer (FAC vs FA)
- **10195**: A Phase 2 Study of Copanlisib (BAY 80-6946) in Combination with Fulvestrant in Women with Metastatic Breast Cancer Progressing After Aromatase Inhibitor Plus CDK 4/6 Inhibitor
- **10131**: A Phase I Study of AZD8186 in Combination with Docetaxel in Patients with PTEN Mutated or PIK3CB Mutated Advanced Solid Tumors, Potentially Amenable to Docetaxel (Dose escalation: Solid tumors with PTEN or PIK3CB Mutations; Expansion cohorts include: breast, prostate, and other solid tumors.)
- **10291**: A Phase 1b Study of M6620 in Combination with Radiation Therapy to Overcome Therapeutic Resistance in Chemotherapy Resistant Triple Negative and Estrogen and/or Progesterone Receptor Positive, HER2 Negative Breast Cancer
- **10302**: Phase II Trial of Radium-223 Dichloride in Combination with Paclitaxel in Patients with Bone Metastatic Breast Cancer
- **10296**: Phase II/II Trial of Copanlisib in Combination with Trastuzumab and Pertuzumab After Induction Treatment of HER2 Positive (HER2+) Metastatic Breast Cancer (MBC) with PIK3CA Mutation or PTEN Mutation (Limited in phase 1 only; will open ETCTN-wide in phase 2).

**NOTE:** *No ClinicalTrials.gov webpage is available at this time (typically for approved LOIs or protocols in review); ▼ Limited trial; not open ETCTN-wide; Version Date: July 13, 2020*