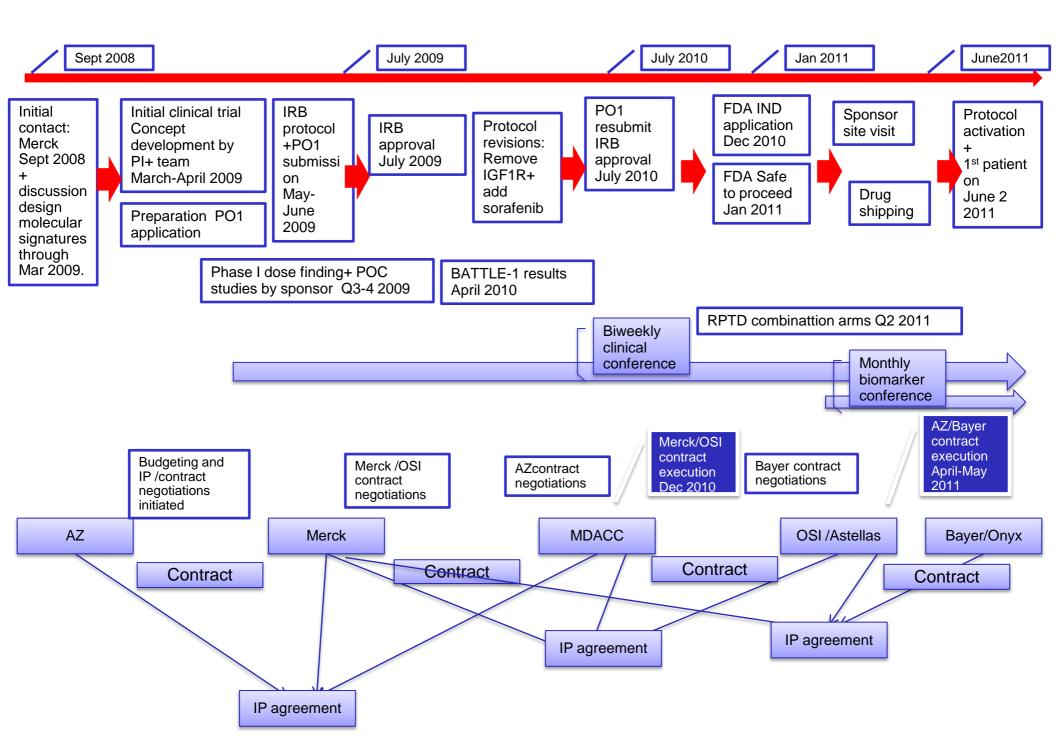


BATTLE-2 Development of Study in Refractory NSCLC Patients

- -Meetings and Conference Calls with Thoracic Group and Merck Initial contact: September 2008, reviewed Merck's molecular signatures and potential targeted agents; discussed possible validation in BATTLE tissue, reviewed pipeline and identified novel agents for ph II trial in NSCLC refractory setting based on 2009 science and clinical landscape.
- -Protocol development and first IRB approval July 2009, 10 protocol revisions and approved amendments, based on POC clinical trial results (Merck, BATTLE-1) and evolution of scientifc knowledge.
- -Three 3way IP agreements and 4 contracts between MDACC and pharmaceutical sponsors
- -4 NCI Grant applications (initial PO1 and resubmission, initial RO1 and resubmmission)
- -Three oral presentations of preliminary results developed in preparation for grant and protocol submission (molecular signatures and impact of different KRAS mutations in NSCLC) and three manuscripts submitted.

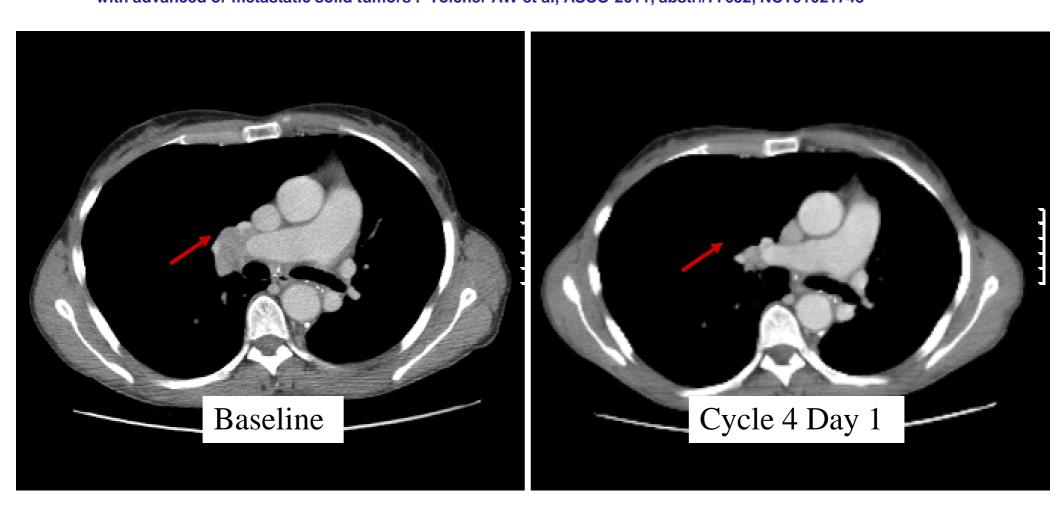
BATTLE-2 PREPARATION AND ACTIVATION STEPS



Entities and Partners

- Principal Investigator
- 4 pharmaceutical sponsors
- Academic collaborations (MDACC, Yale)
- Molecular pathologist sand 2 teams of scientists (academic and pharma)
- 4 basic science and translational academic collaborators for grant development.
- 2 teams of statisticians (academic and pharma)
- Division chair and Department head
- Regulatory staff
- Thoracic Team
- CRC +IRB
- Grants and contracts office
- Office of protocol research/IND office/FDA
- 5 legal departments (1 academic, 4 pharma)
- Study coordinators
- Institutional collaborators (interventional radiology, pathology, molecular pathology, ophthalmology, cardiology, dermatology)
- Pharmacy

A phase I dose escalation study of oral MK-2206 (allosteric AKT inhibitor) with oral selumetinib (AZD6244; ARRY-142866) (MEK inhibitor) in patients with advanced or metastatic solid tumors. Tolcher AW et al, ASCO 2011, abstr#77652, NCT01021748



NSCLC KRAS Mutant, PR after Course 2