## abstracts

## 82TiP IMpower030: Phase III study evaluating neoadjuvant treatment of resectable stage II-IIIB non-small cell lung cancer (NSCLC) with atezolizumab (atezo) + chemotherapy

<u>S. Peters</u><sup>1</sup>, A.W. Kim<sup>2</sup>, B. Solomon<sup>3</sup>, D.R. Gandara<sup>4</sup>, R. Dziadziuszko<sup>5</sup>, A. Brunelli<sup>6</sup>, M.C. Garassino<sup>7</sup>, M. Reck<sup>8</sup>, L. Wang<sup>9</sup>, I. To<sup>9</sup>, S.W. Sun<sup>9</sup>, B.J. Gitlitz<sup>9</sup>, A. Sandler<sup>9</sup>, N. Rizvi<sup>10</sup>
<sup>1</sup>Multidisciplinary Oncology Center, Centre Hospitalier Universitaire Vaudois - CHUV, Lausanne, Switzerland, <sup>2</sup>University of Southern California, Los Angeles, CA, USA, <sup>3</sup>Peter MacCallum Cancer Center, Melbourne, Australia, <sup>4</sup>University of California Davis Cancer Center, Sacramento, CA, USA, <sup>5</sup>Medical University of Gadnsk, Gdańsk, Poland, <sup>6</sup>St. James's University Hospital Leeds, Leeds, UK, <sup>7</sup>Thoracic Unit, Fondazione IRCCS - Istituto Nazionale dei Tumori, Milan, Italy, <sup>8</sup>Thoracic Oncology, Krankenhaus Grosshansdorf, Grosshansdorf, Germany, <sup>9</sup>Genentech, Inc., South San Francisco, CA, USA, <sup>10</sup>Columbia University Medical Center College of Physicians & Surgeons - New York Presbyterian Hospital, New York, NY, USA

Background: A standard of care for resectable early-stage NSCLC is surgery alone or in combination with adjuvant or neoadjuvant platinum-based doublet chemotherapy (PT-DC). Still, 30%–70% of patients develop recurrence and die from disease progression, highlighting the need for more effective treatments. Atezo, an anti–programmed death-ligand 1 (PD-L1) antibody that restores anti-tumour immunity, has shown promising efficacy as monotherapy and in combination with chemotherapy in advanced NSCLC. It is hypothesised that the combination of atezo and PT-DC may provide clinical benefit in the neoadjuvant setting by enhancing cancer cell killing and eradicating micro-metastases, reducing the risk of disease recurrence. The objective of IMpower030 (NCT03456063) is to evaluate the efficacy and safety of atezo in combination with PT-DC as neoadjuvant treatment for patients with resectable early-stage NSCLC.

Trial design: IMpower030 is a global, Phase III, double-blind, randomized study in patients with histologically or cytologically confirmed, resectable stage II, IIIA, or select IIIB (T3N2) NSCLC (per AJCC/UICC, 8th ed). Study inclusion requires measurable disease per RECIST v1.1, ECOG PS of 0/1 and eligibility for R0 resection with curative intent and PT-DC. Patients who had received prior therapy for lung cancer or present with nonsquamous NSCLC with activating EGFR mutations or ALK translocation are excluded. Patients will be randomized to receive 4 cycles of neoadjuvant atezo (1200 mg Q3W, Arm A) or placebo (Arm B) in combination with an investigator-selected PT-DC regimen. Following unblinding, patients in Arm A will receive adjuvant atezo treatment for  $\leq 16$  cycles or until disease recurrence or unacceptable toxicity, and patients in Arm B will receive best supportive care and scheduled observational follow-up. Endpoints will include major pathological response ( $\leq 10\%$  residual viable tumour tissue at time of resection), investigator-assessed event-free survival and disease-free survival per RECIST v1.1, OS, ORR, pathological complete response and patient-reported outcomes. Exploratory biomarkers will also be evaluated.

## Clinical trial identification: NCT03456063.

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