**Supplemental Table S1. Search strategy on EMBASE**

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| No. | Query |
| #16 | #9 AND #12 AND #13 AND #14 AND #15 |
| #15 | #10 OR #11 |
| #14 | #7 OR #8 |
| #13 | #5 OR #6 |
| #12 | #1 OR #2 OR #3 OR #4 |
| #11 | 'metastasis':ab,ti |
| #10 | 'advanced':ab,ti |
| #9 | 'randomized controlled trial'/exp |
| #8 | 'agents, chemotherapeutic anticancer':ab,ti OR 'anticancer agents':ab,ti OR 'agents, anticancer':ab,ti OR 'antitumor agents':ab,ti OR 'agents, antitumor':ab,ti OR 'docetaxel trihydrate':ab,ti OR 'docetaxol':ab,ti OR 'docetaxel hydrate':ab,ti OR 'taxoltere metro':ab,ti OR 'rp 56976':ab,ti OR 'rp-56976':ab,ti OR 'rp56976':ab,ti OR 'taxotere':ab,ti OR 'docetaxel anhydrous':ab,ti OR 'n-debenzoyl-n-tert-butoxycarbonyl-10-deacetyltaxol':ab,ti OR 'n debenzoyl n tert butoxycarbonyl 10 deacetyltaxol':ab,ti OR 'nsc 628503':ab,ti OR 'cis-diamminedichloroplatinum(ii)':ab,ti OR 'platinum diamminodichloride':ab,ti OR 'diamminodichloride, platinum':ab,ti OR 'cis-platinum':ab,ti OR 'cis platinum':ab,ti OR 'dichlorodiammineplatinum':ab,ti OR 'cis-diamminedichloroplatinum':ab,ti OR 'cis diamminedichloroplatinum':ab,ti OR 'cis-dichlorodiammineplatinum(ii)':ab,ti OR 'nsc-119875':ab,ti OR 'platino':ab,ti OR 'platinol':ab,ti OR 'biocisplatinum':ab,ti OR 'platidiam':ab,ti OR 'cis-diammine(cyclobutanedicarboxylato)platinum ii':ab,ti OR 'cbdca':ab,ti OR 'blastocarb':ab,ti OR 'carbosin':ab,ti OR 'carbotec':ab,ti OR 'ercar':ab,ti OR 'jm-8':ab,ti OR 'jm 8':ab,ti OR 'jm8':ab,ti OR 'neocarbo':ab,ti OR 'nsc-241240':ab,ti OR 'nsc 241240':ab,ti OR 'nsc241240':ab,ti OR 'paraplatin':ab,ti OR 'paraplatine':ab,ti OR 'platinwas':ab,ti OR 'ribocarbo':ab,ti OR 'carboplat':ab,ti OR 'nealorin':ab,ti |
| #7 | 'antineoplastic agent'/exp |
| #6 | 'cd273 antigen':ab,ti OR 'antigen, cd273':ab,ti OR 'pd-l2 ligand':ab,ti OR 'ligand, pd-l2':ab,ti OR 'pd l2 ligand':ab,ti OR 'b7-dc ligand':ab,ti OR 'b7 dc ligand':ab,ti OR 'ligand, b7-dc':ab,ti OR 'antigens, cd273':ab,ti OR 'cd273 antigens':ab,ti OR 'b7-dc antigen':ab,ti OR 'antigen, b7-dc':ab,ti OR 'b7 dc antigen':ab,ti OR 'lambrolizumab':ab,ti OR 'keytruda':ab,ti OR 'mk-3475':ab,ti OR 'opdivo':ab,ti OR 'ono-4538':ab,ti OR 'ono 4538':ab,ti OR 'ono4538':ab,ti OR 'mdx-1106':ab,ti OR 'mdx 1106':ab,ti OR 'mdx1106':ab,ti OR 'bms-936558':ab,ti OR 'bms 936558':ab,ti OR 'bms936558':ab,ti OR 'medi4736':ab,ti OR 'medi-4736':ab,ti OR 'imfinzi':ab,ti OR 'anti-pdl1':ab,ti OR 'immunoglobulin g1, anti-(human cd antigen cd274) (human monoclonal mdpl3280a heavy chain), disulfide with human monoclonal mdpl3280a kappa-chain, dimer':ab,ti OR 'mpdl3280a':ab,ti OR 'tecentriq':ab,ti OR 'rg7446':ab,ti OR 'rg-7446':ab,ti OR 'msb0010718c':ab,ti OR 'pembrolizumab':ab,ti OR 'nivolumab':ab,ti OR 'durvalumab':ab,ti OR 'atezolizumab':ab,ti OR 'avelumab':ab,ti |
| #5 | 'monoclonal antibody'/exp |
| #4 | 'carcinoma, non small cell lung':ab,ti OR 'carcinomas, non-small-cell lung':ab,ti OR 'lung carcinoma, non-small-cell':ab,ti OR 'lung carcinomas, non-small-cell':ab,ti OR 'non-small-cell lung carcinomas':ab,ti OR 'nonsmall cell lung cancer':ab,ti OR 'non-small-cell lung carcinoma':ab,ti OR 'non small cell lung carcinoma':ab,ti OR 'carcinoma, non-small cell lung':ab,ti OR 'non-small cell lung cancer':ab,ti |
| #3 | 'non small cell lung cancer'/exp |
| #2 | 'pulmonary neoplasms':ab,ti OR 'neoplasms, lung':ab,ti OR 'lung neoplasm':ab,ti OR 'neoplasm, lung':ab,ti OR 'neoplasms, pulmonary':ab,ti OR 'neoplasm, pulmonary':ab,ti OR 'pulmonary neoplasm':ab,ti OR 'lung cancer':ab,ti OR 'cancer, lung':ab,ti OR 'cancers, lung':ab,ti OR 'lung cancers':ab,ti OR 'pulmonary cancer':ab,ti OR 'cancer, pulmonary':ab,ti OR 'cancers, pulmonary':ab,ti OR 'pulmonary cancers':ab,ti OR 'cancer of the lung':ab,ti OR 'cancer of lung':ab,ti |
| #1 | 'lung cancer'/exp |