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| **Table S1.** The search strategy with a summary of keywords to identify papers from Pubmed. | | |
| **Search Sequence** | **Search Query** | **Result** |
| Search #1 | (Hepatocellular carcinoma) OR (Liver cell carcinoma) OR (Liver cancer) OR (Hepatoma) | 353,080 |
| Search #2 | (Nivolumab) OR (Opdivo) OR (ONO-4538) OR (ONO 4538) OR (ONO4538) OR (MDX-1106) OR (MDX 1106) OR (MDX1106) OR (BMS-936558) OR (BMS 936558) OR (BMS936558) OR (Durvalumab) OR (MEDI4736) OR (MEDI-4736) OR (Imfinzi) OR (Pembrolizumab) OR (SCH-900475) OR (Lambrolizumab) OR (MK-3475) OR (Keytruda) OR (Camrelizumab) OR (Carrelizumab) OR (SHR-1210) OR (SHR 1210) OR (Atezolizumab) OR (MDPL3280a) OR (MPDL3280A) OR (MPDL-3280A) OR (Tecentriq) OR (RG7446) OR (RG-7446) OR (PD-1 inhibitor) OR (immune checkpoint inhibitor) OR (PD-L1 inhibitor) | 43,417 |
| Search #3 | #1 AND #2 | 3,272 |
| Note:  Timespan= From October 2014 to December 2022 | | |