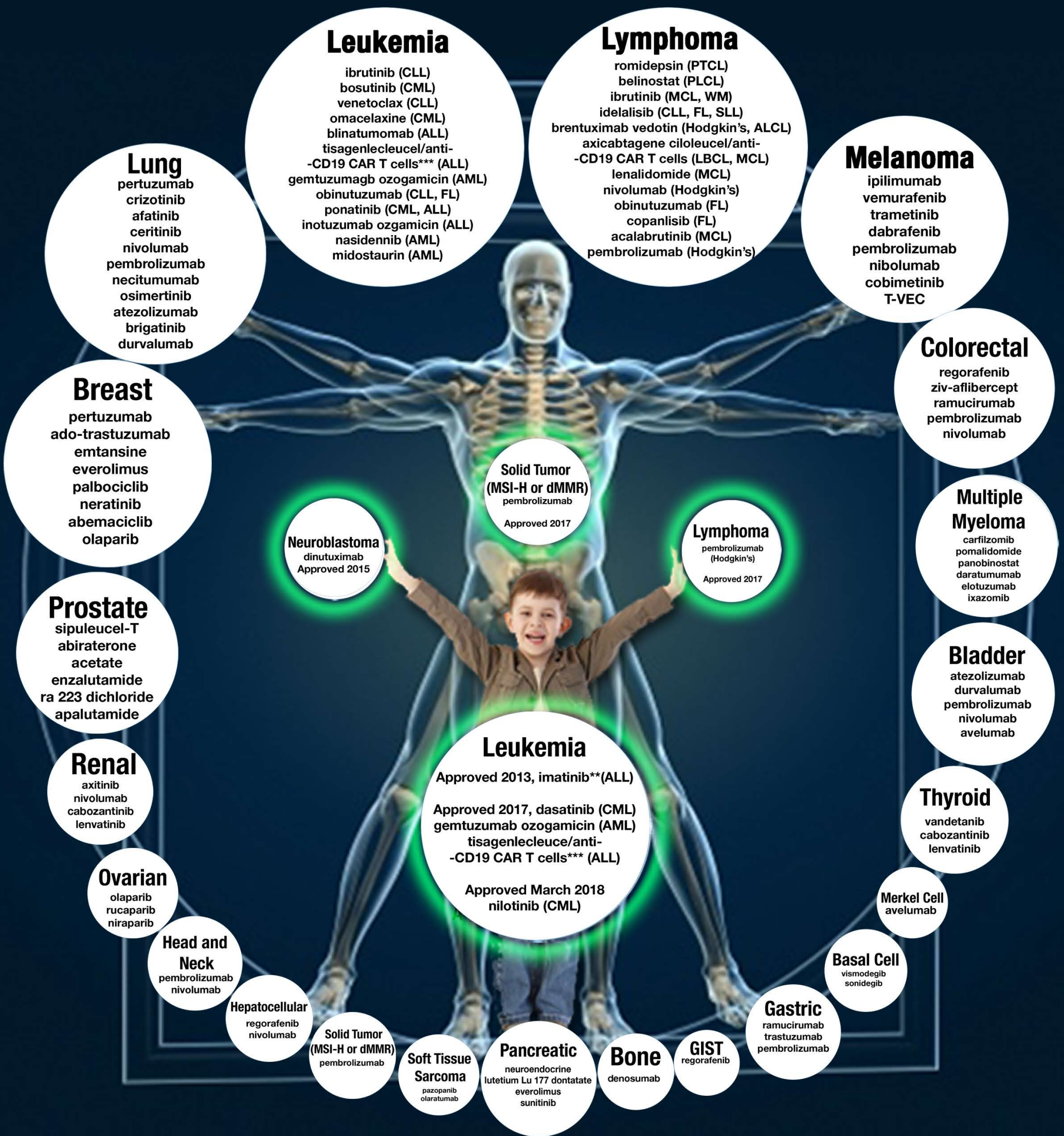


Novel Targeted (Biologic/Immunologic)* Cancer Drugs Approved by the US FDA



January 2010 Through March 2018

Only eight Novel Targeted Drugs approved for childhood cancers during the same period

*This chart includes all non-chemotherapy drugs approved for treating adult or pediatric cancers, most of which are novel biologic and/or immunologic agents; for prostate cancer, hormonal agents are also included. Novel agents approved for treating benign (non-cancerous) tumors, supportive care agents, and biosimilars are not included in this graphic.

**Whereas adult FDA approval for imatinib in Ph+ ALL was granted in 2006, pediatric FDA approval of imatinib in Ph+ ALL was granted in 2013

***For the treatment of patients up to 25 years