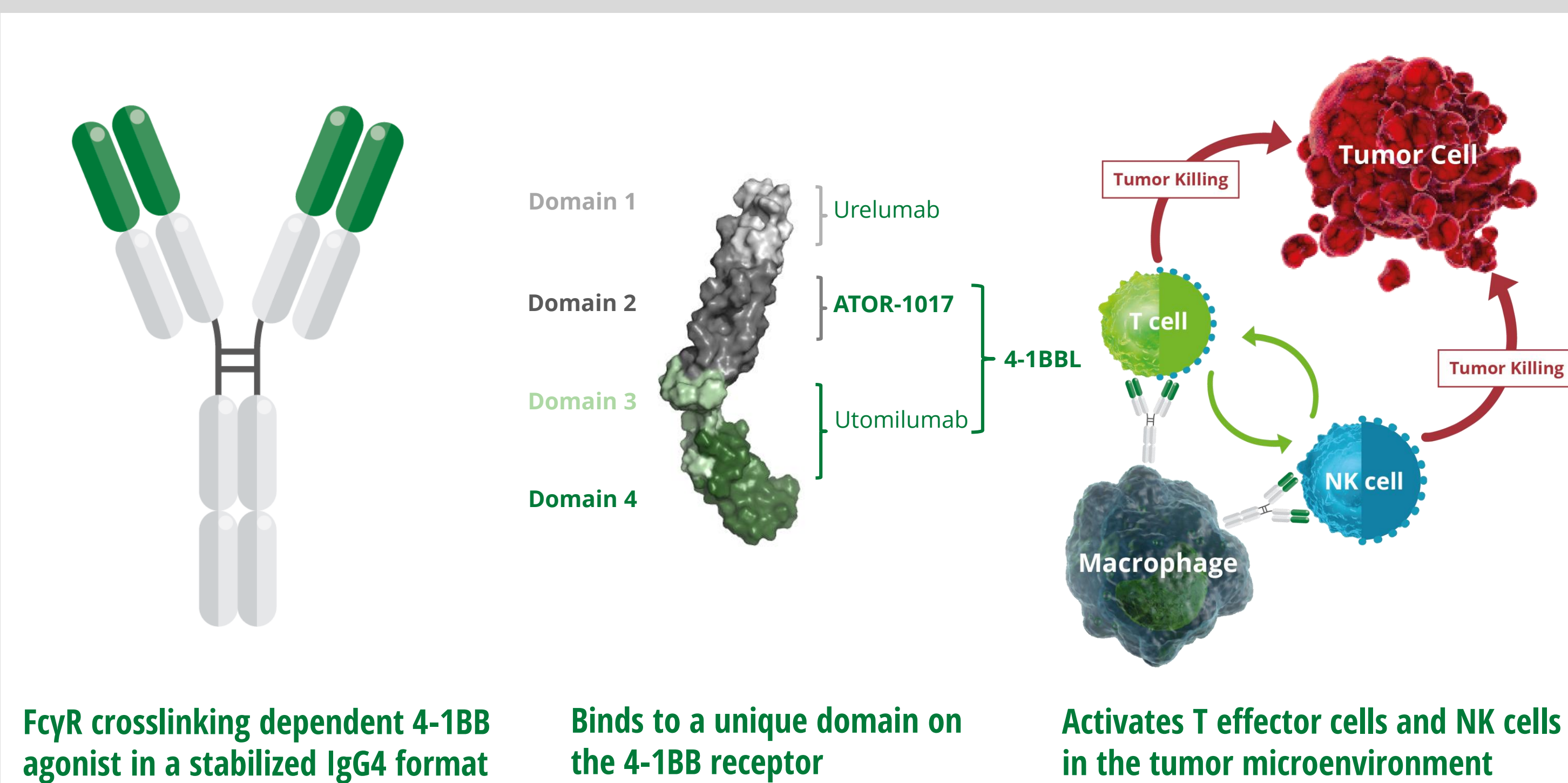


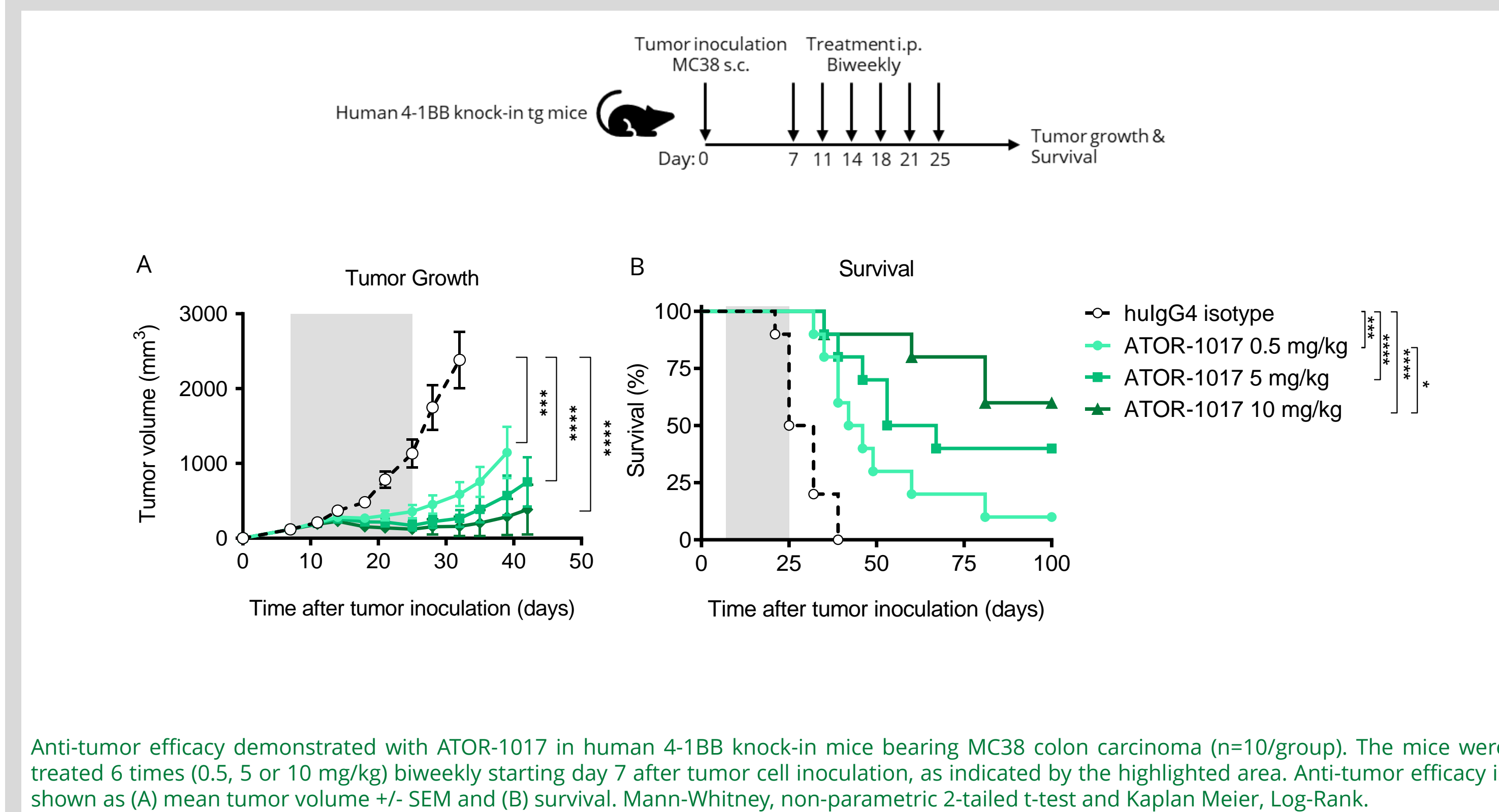
# ATOR-1017, a 4-1BB Antibody Developed for Tumor-Directed Immunotherapy of Cancer

Doreen Werchau, Anna Rosén, Mia Eriksson, Sofia Järnum, Christina Furebring and Karin Enell Smith\*,  
Alligator Bioscience AB, Lund, Sweden \*Presenting author

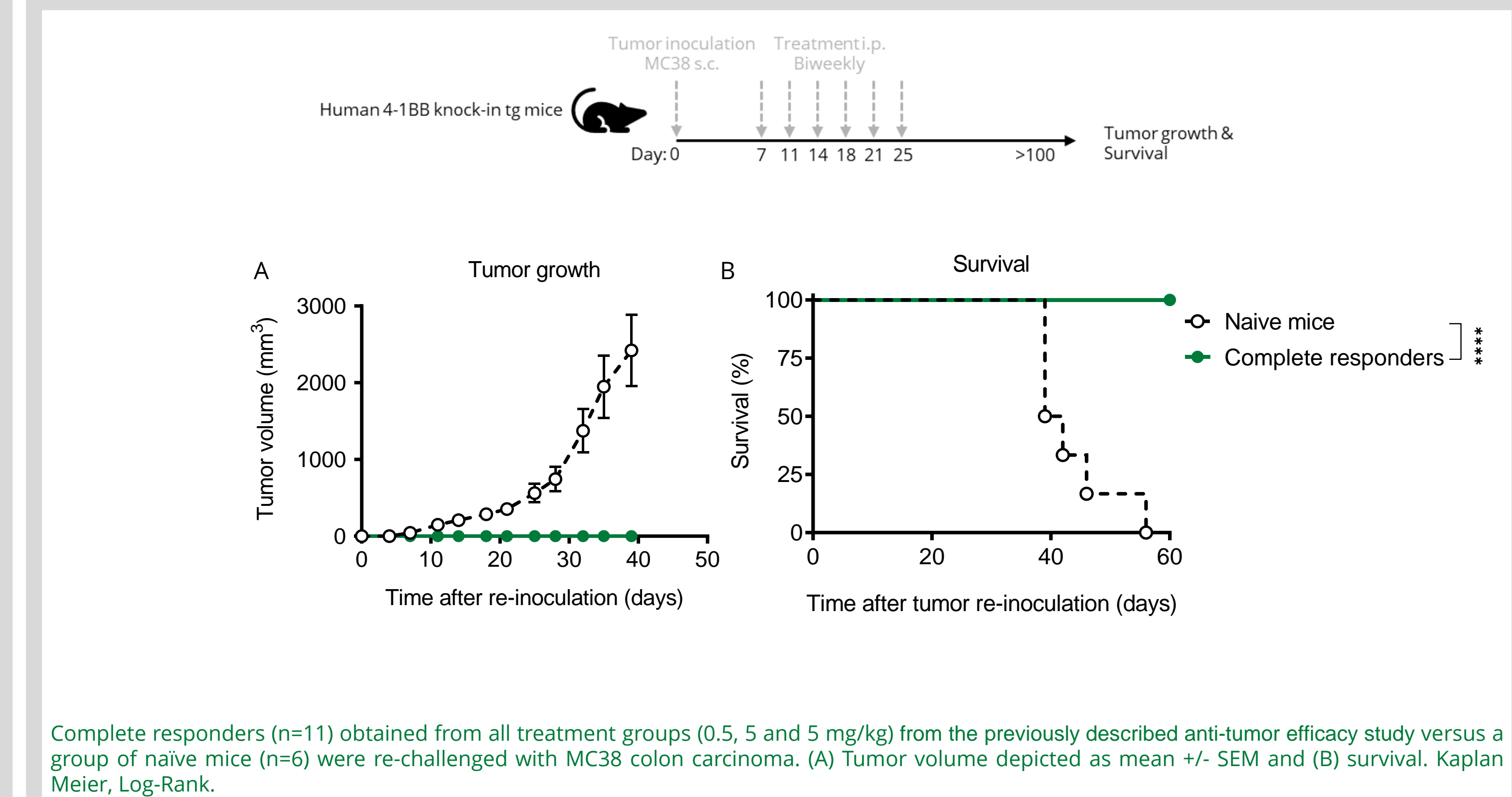
## ATOR-1017, background and mode of action



## ATOR-1017 induces a potent anti-tumor response

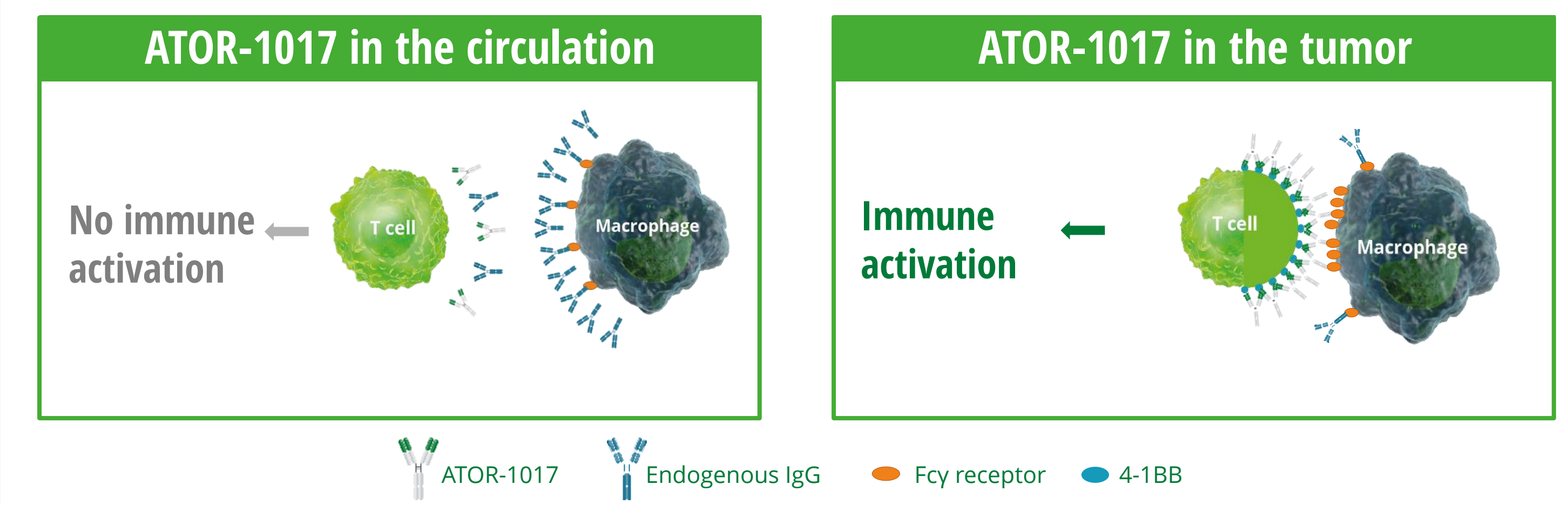


## ATOR-1017 induces an immunological memory

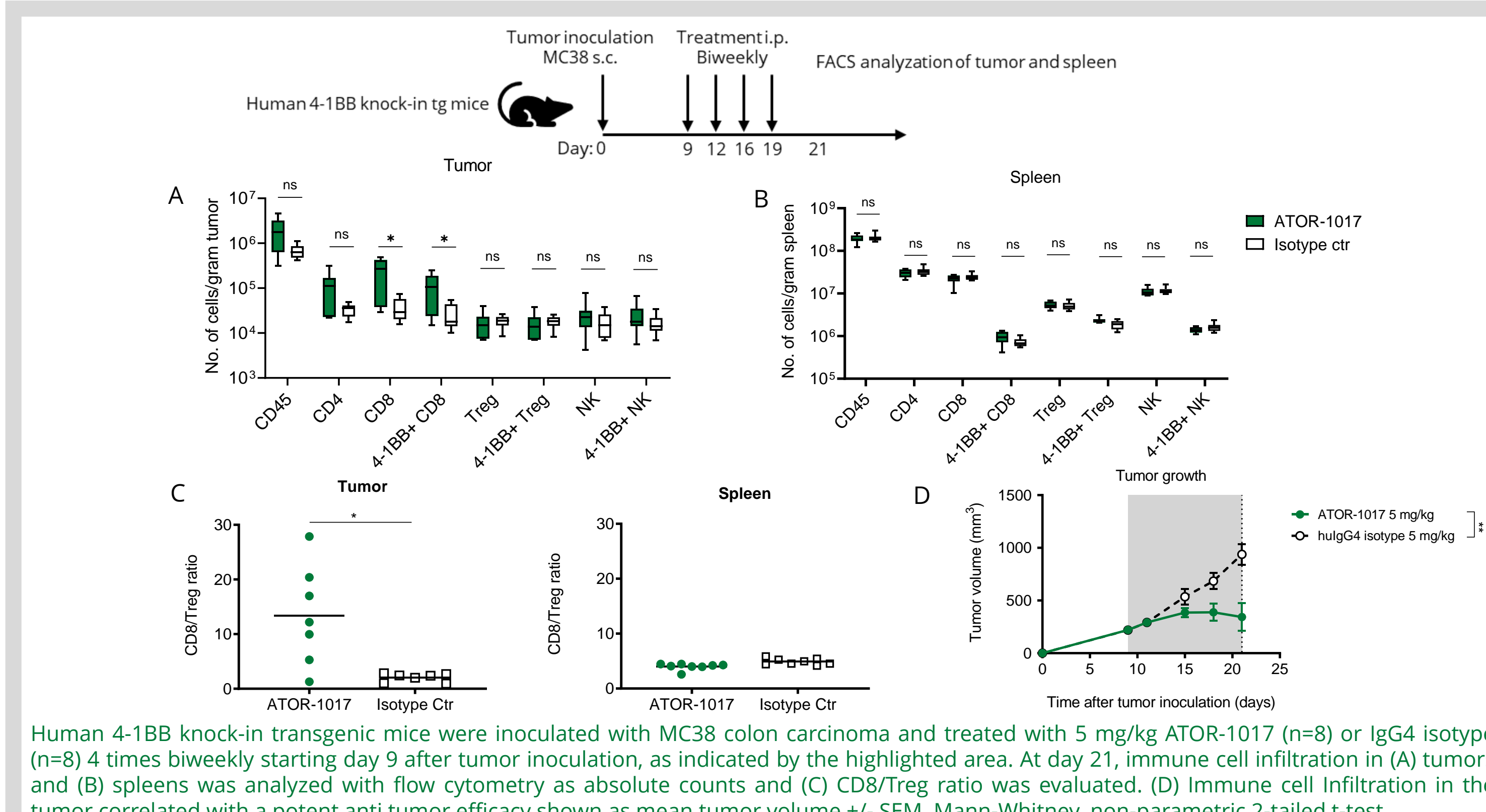


## ATOR-1017 is anticipated to be tumor directed

- High concentration of endogenous IgG in the circulation (67 μM) and in highly vascularized tissues (e.g. liver) blocks immune activation with ATOR-1017 by competing for binding to FcγRs
- High expression of 4-1BB within the tumor and tumor draining lymph nodes enriches ATOR-1017 over endogenous IgG which passively diffuses into the extravascular tissues



## ATOR-1017 expands effector T cells in the tumor but not in the spleen



## Summary and conclusions

- ATOR-1017 induced a potent tumor-directed immune response, leading to an efficient tumor eradication and survival
- ATOR-1017 induced a long-lasting immunological memory
- ATOR-1017 increased CD8 T cell infiltration and improved CD8/Treg ratio in the tumor, but no immune effects were detected in the spleen
- ATOR-1017 is FcγR crosslinking dependent and is expected to direct the immune response to the tumor tissue and tumor draining lymph nodes where target expression is high
- The FcγR crosslinking dependency is anticipated to reduce the risk for immune activation in the circulation, due to the high concentration of endogenous circulating IgG
- A first-in-human phase I study of intravenously administered ATOR-1017 is planned for 2019