

B-Cell Maturation Antigen (BCMA): hot target for emerging treatment modalities

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Abstracts

B-Cell Maturation Antigen (BCMA): hot target for emerging treatment modalities

The highly restricted expression of B-cell maturation antigen (BCMA) to plasma cells and its role in the survival and growth for multiple myeloma cells makes BCMA a good potential target for enhanced immunotherapeutic strategies. This report describes and analyzes the

Scientific rationale for BCMA-targeted therapies;

Preclinical proof-of-concept of BCMA blockade;

Clinical experience with BCMA-targeted therapies;

The competitive landscape of BCMA-targeted treatment modalities;

Profiles of anti-BCMA CAR T-cells, antibody-drug conjugate and T-cell redirecting bispecific antibodies:

Profiles of companies involved in developpent of anti-BCMA therapy candidates.

Especially activity-enhanced antibodies and cells such as antibody-drug conjugates (ADCs) and T-cell redirecting bispecific antibodies as well as chimeric antigen receptor (CAR) T-cells, respectively, will benefit from the high target selectivity of BCMA to avoid on-target, off-tumor toxicity. As a consequence, novel cellular and humoral BCMA-



targeted treatment modalities have emerged and resulting product candidates entered first-in-human clinical evaluation. Further development candidates are undergoing IND-enabling studies.



Contents

- 1 Target Background
- **2 Target Antigen Expression Profile**
- 3 Preclinical Proof-of-Concept
- **4 Clinical Indications & Treatment Options**
- **5 Clinical Experience with BCMA-Targeted Treatment Modalities**
- **6 Treatment Modalities & Competitive Landscape**
- 7 Drug & Cell Therapy Candidate Profiles
- 7.1 CAR T-Cells
- 7.2 Antibody-Drug Conjugate (ADC)
- 7.3 T-Cell Redirecting Antibodies
- **8 Company Profiles**
- 9 References



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