Antibody platform for potent and specific complement activation

Few therapeutic antibodies developed today induce potent complement activation. We have developed a technology that potently activate the complement system on specific antigens. Proof of principle data suggest superiority over closest prior art. The technology can be transferred to other antigens and is broadly applicable.

Technology Description
Therapeutic antibodies used in cancer treatment often rely on activating different parts of the immune system for optimal efficiency.

Only a subset of currently licensed antibodies activates the complement system and complement may thus represent a severely under-exploited mechanism for clearance of cancer cells but also pathogenic microorganisms.

A new antibody based technology to potently and specifically activate the complement system on target cells has been invented by Aarhus University.

Intellectual Property Rights
All rights are owned by Aarhus University. We are currently initiating a patent application.

Current State
Current data are for lung and breast cancer.

- Proof-of-concept in vitro experiments with a validated cancer antigen show potent complement activation and cell killing.

- We are currently testing different antibodies against other validated cancer antigens using the same technology.

Team
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Business opportunity and Call to action
We are seeking partners within the field of therapeutic antibodies to assist in validating and directing the development of the technology.

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