

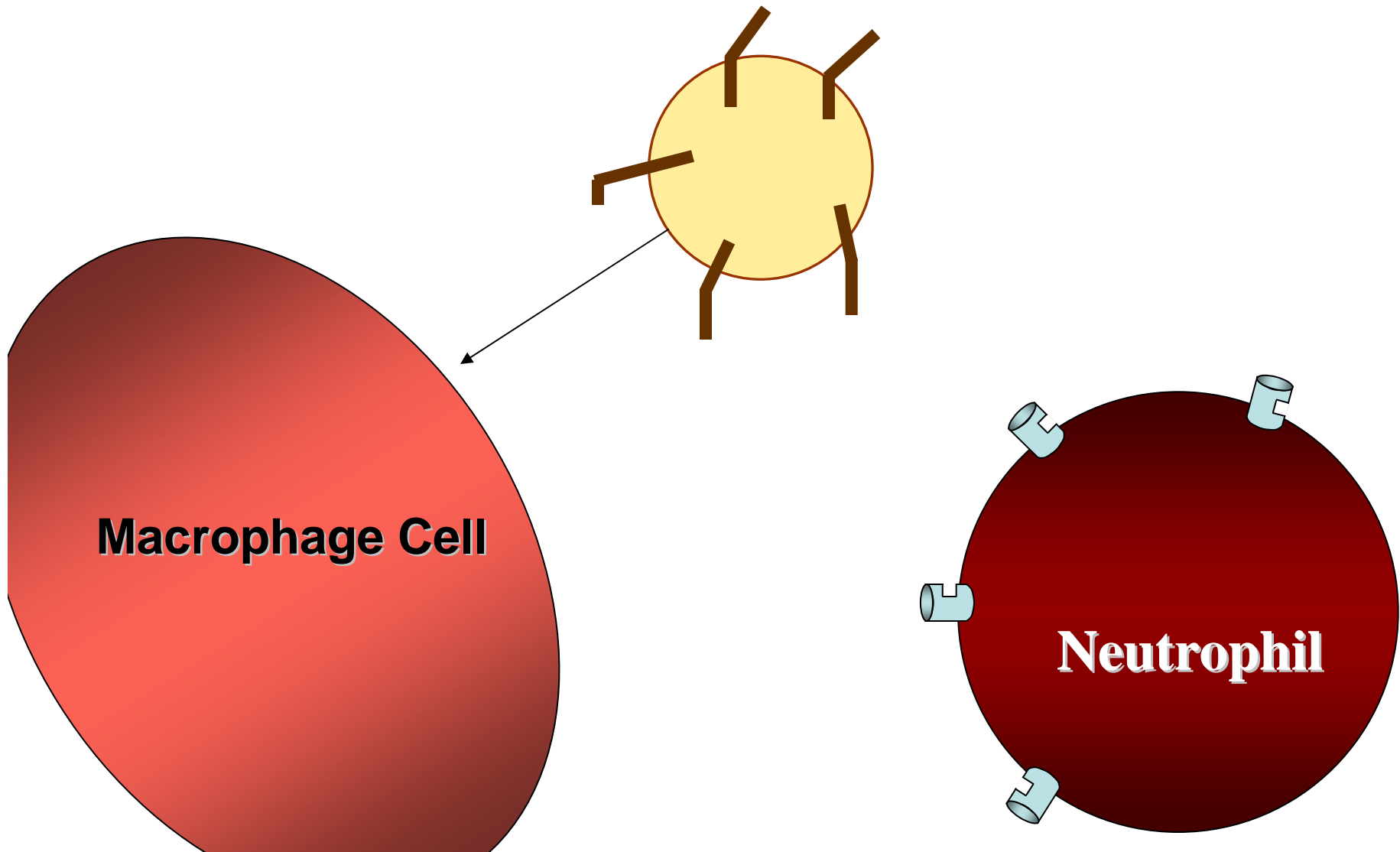
Cancer Research

Beta Glucan (β 1,3-D) primes
immune cells to fight cancer

Statements in this presentation have not been evaluated by the Food and Drug Administration.
These product are not intended to diagnose, treat, cure or prevent any disease.

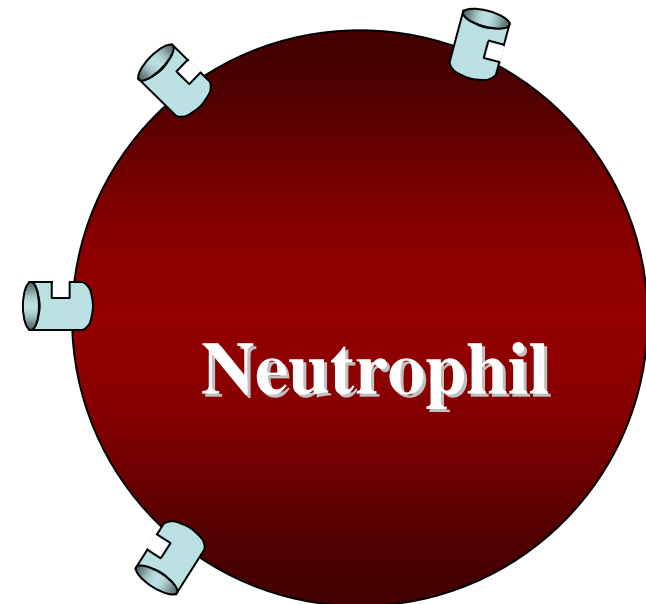
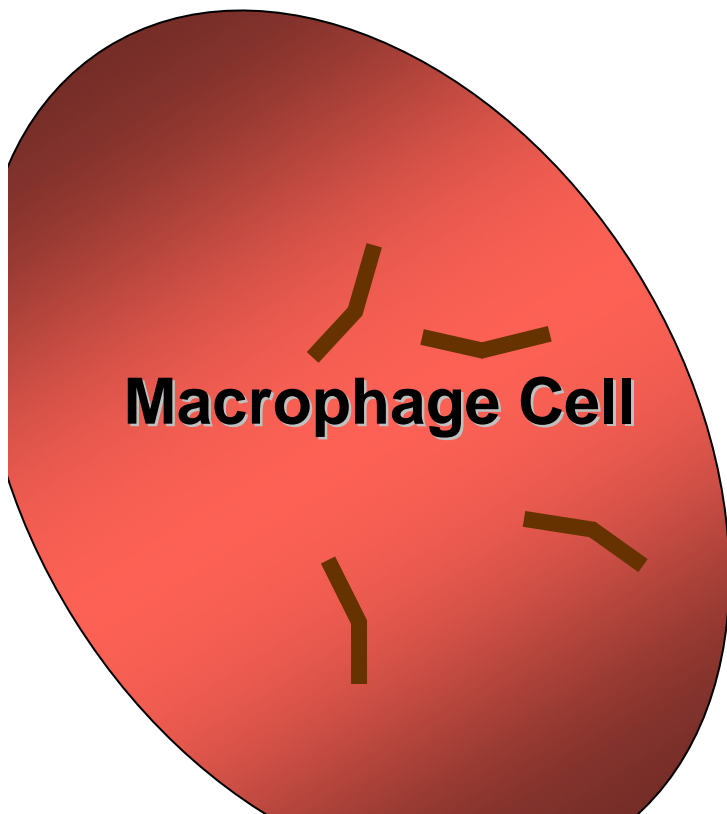
β 1, 3-D Recruits Neutrophils to Kill

Step 1. Macrophages engulf via phagocytosis β 1, 3-D glucan



β 1, 3-D Recruits Neutrophils to Kill

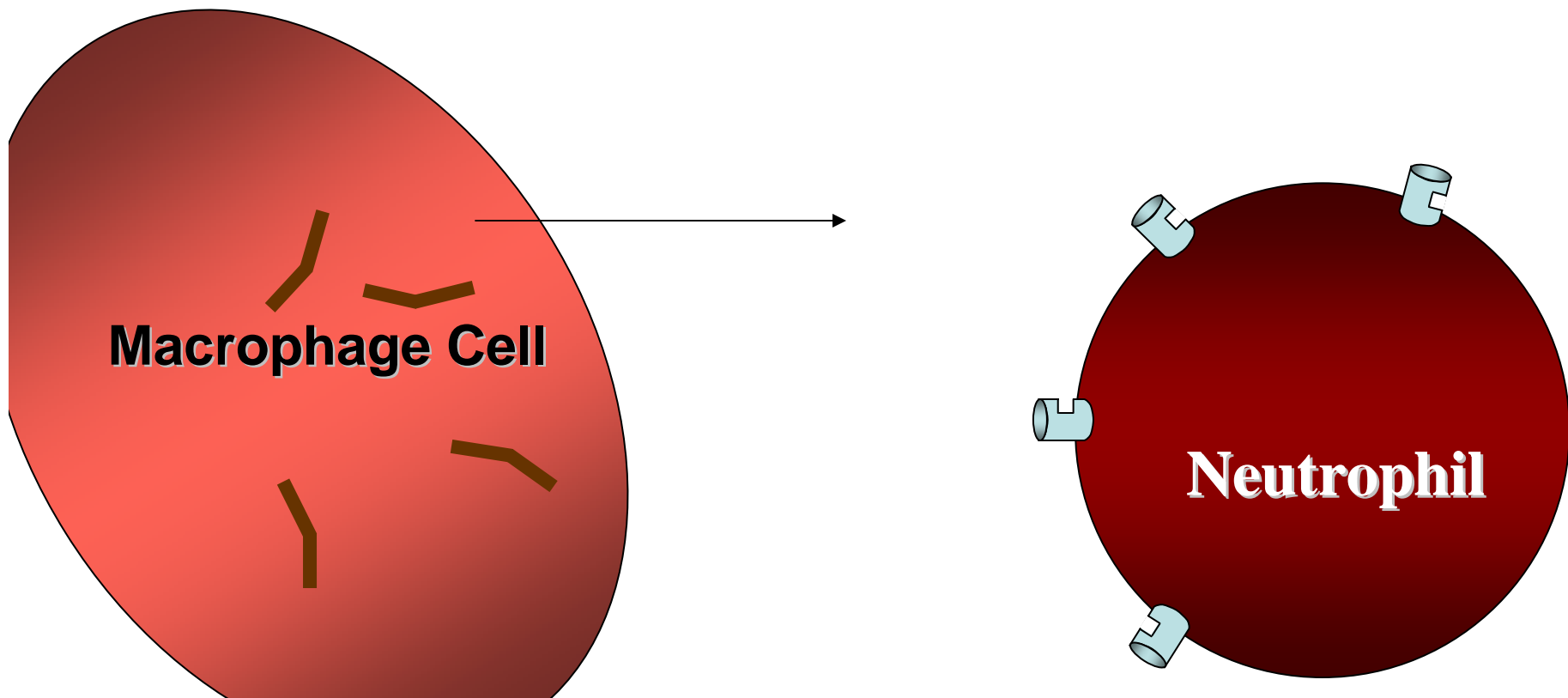
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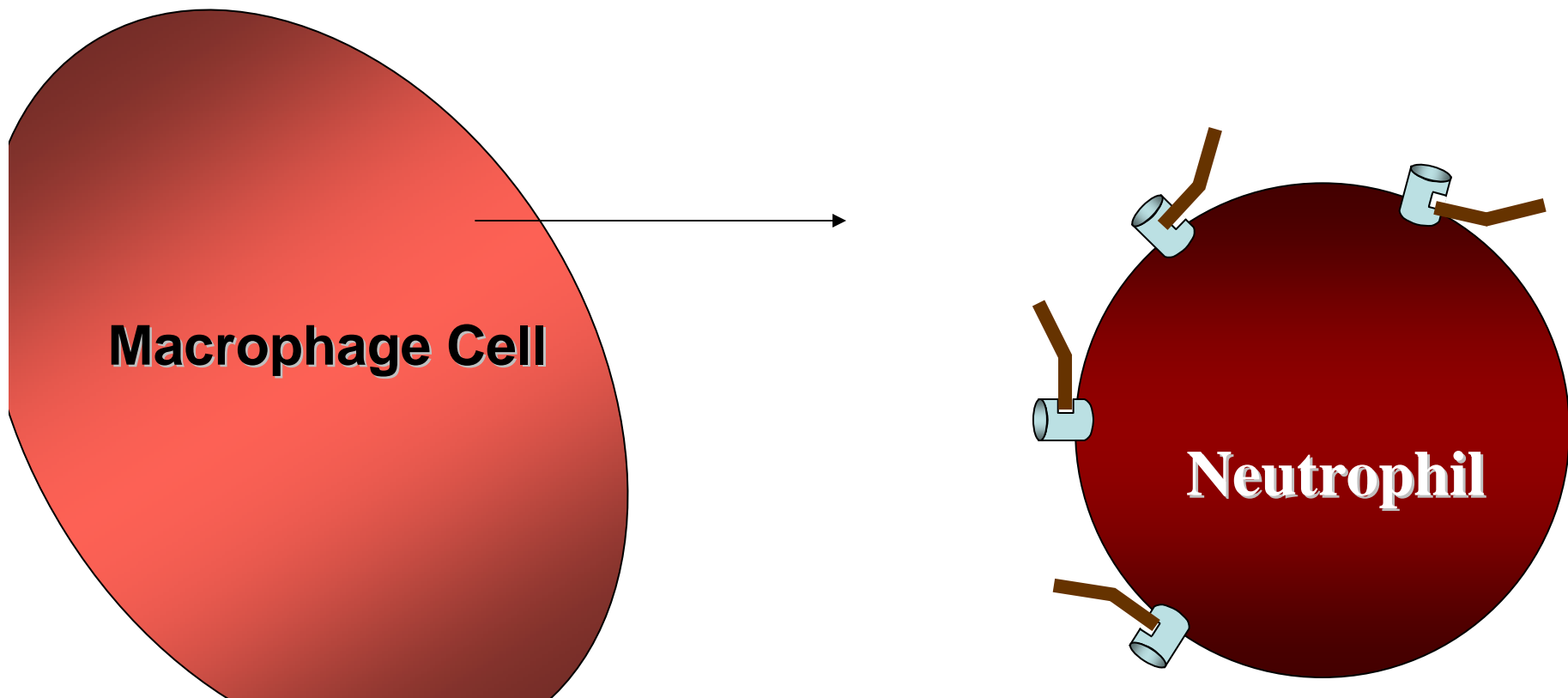
Step 2. β 1, 3-D (beta glucan) fragments are secreted and bind to Complement Receptor 3 on neutrophils, “priming” them.



β 1, 3-D Recruits Neutrophils to Kill

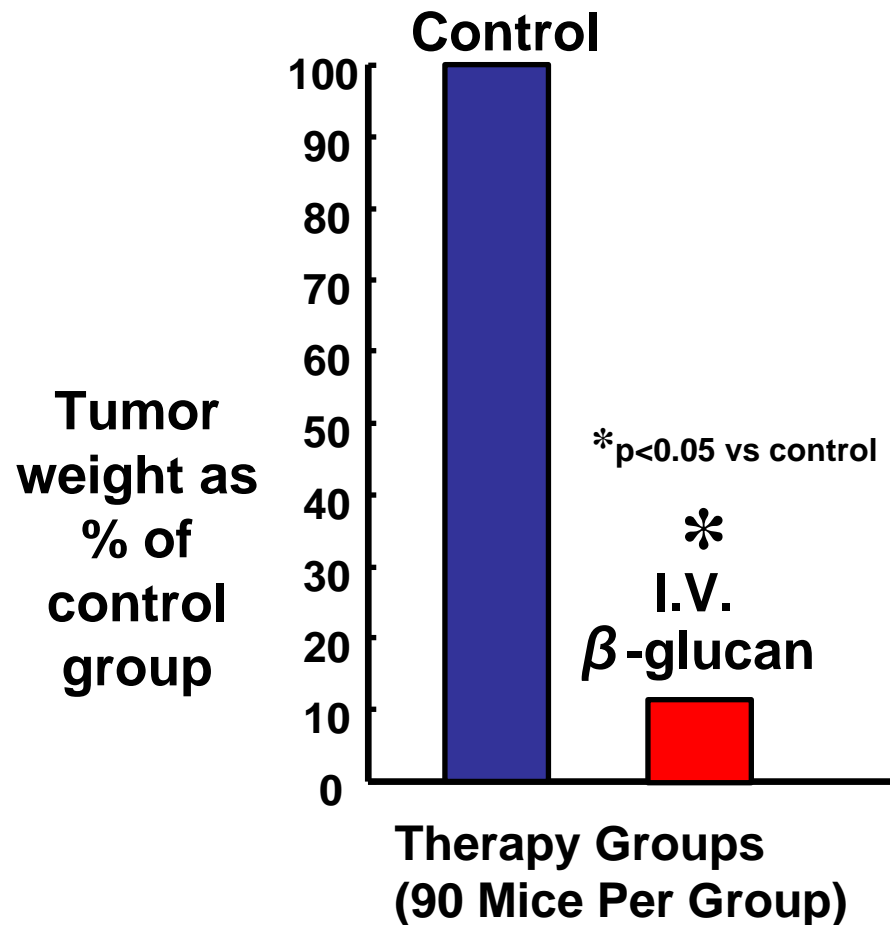
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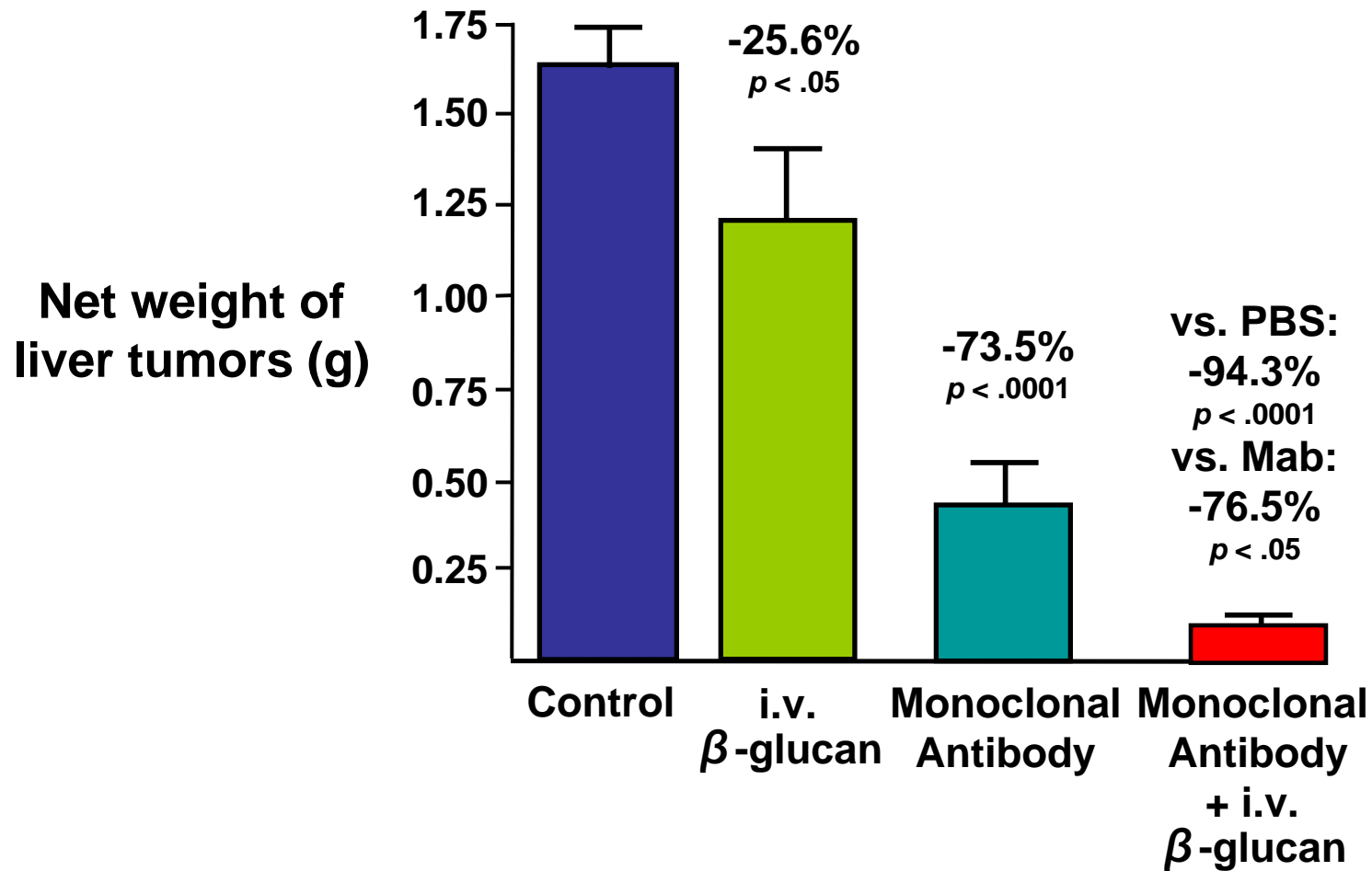


Cancer Research: Breast

β -Glucan Therapy of Immunogenic Breast Cancer in Mice Reduces Tumor Weight 90%



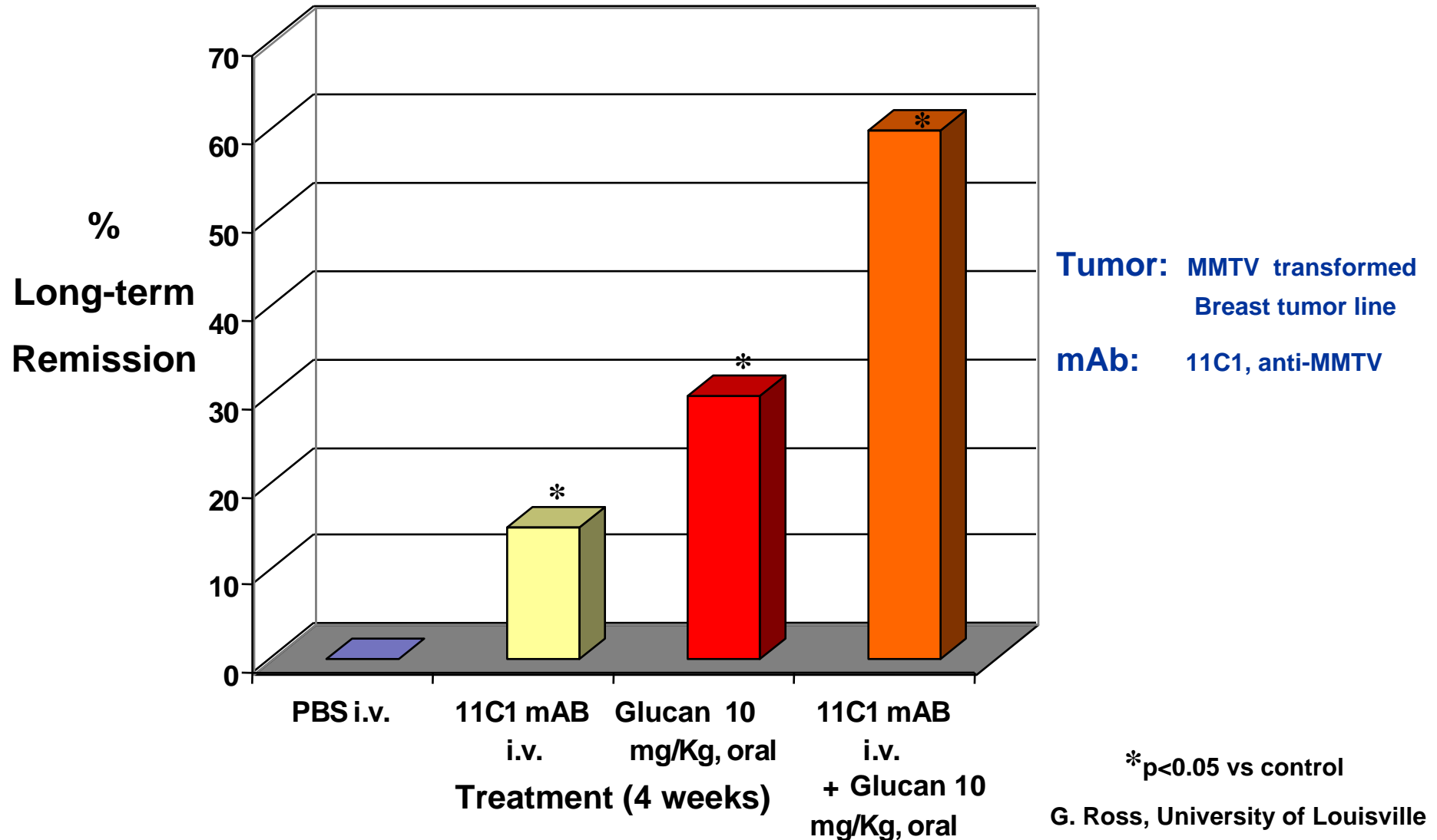
Cancer Research: Liver



Therapy Groups (6 mice per group)

Cancer Research: Breast

Beta 1,3-D Glucan and Monoclonal Antibody Increases Survival



Cancer Technology Summary

- Unique mechanism of beta 1,3-D glucan engages innate immune cells not normally involved in fight against cancer.
- More research needed to determine if this mechanism will work in humans.
- Multiple cancer opportunities - This therapy may work against a wide range of cancer types.
- Possesses other immune enhancing benefits that make it a good candidate for multiple therapy approaches.



End of Module

This concludes this portion of the presentation.