## YOUNG HEMATOPOEITIC STEM CELLS AMELIORATE AGE-ASSOCIATED PHENOTYPES AND EXTEND LIFESPAN IN MICE Michael James Guderyon APPROVED: Senlin Li, M.D., Supervising Professor Robert A. Clark, M.D., Co-Supervising Professor James F. Nelson, Ph.D., Co-Supervising Professor J. Randy Strong, Ph.D. Ellen B. Kraig, Ph.D. Peter J. Hornsby, Ph.D. S. Michal Jazwinski, Ph.D. Date APPROVED: David Weiss, Ph.D.

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