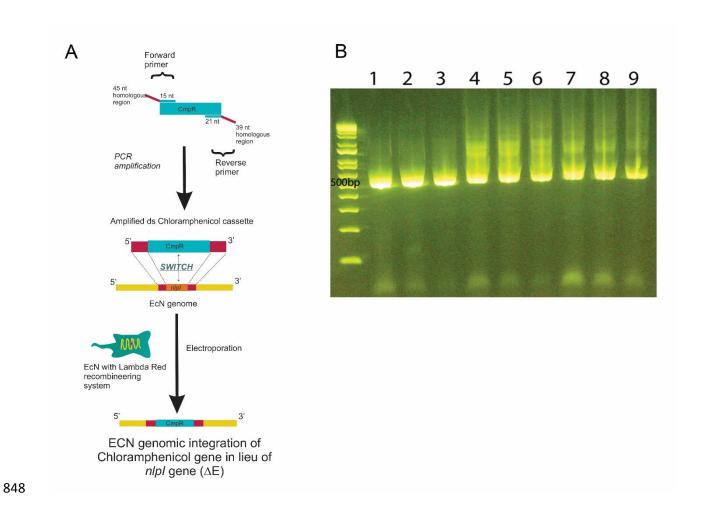
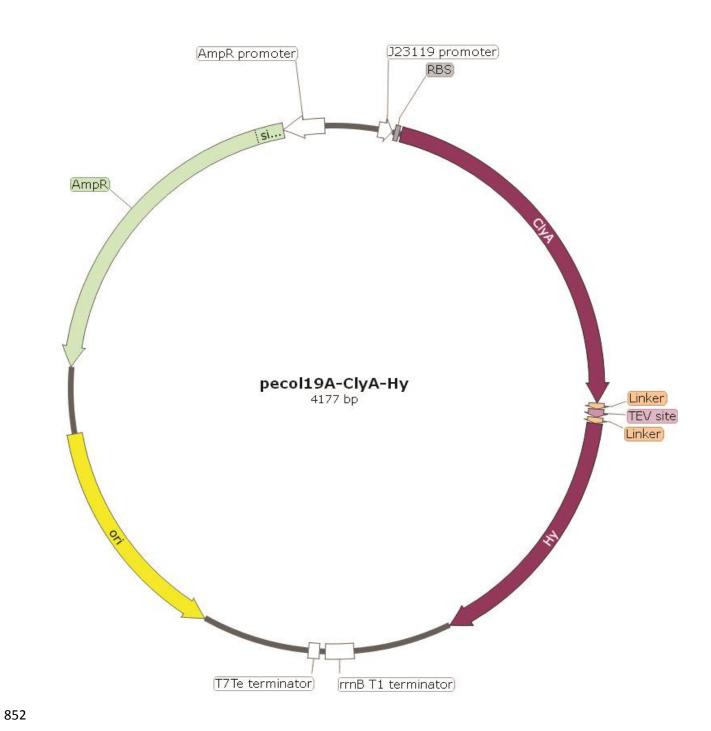
Engineered Bacteria Enhance Immunotherapy and Targeted Therapy through Stromal 831 **Remodeling of Tumors** 832 833 834 Shindu C. Thomas, Tushar Madaan, Nitin S. Kamble, Nabil A. Siddiqui, Giovanni M. Pauletti, 835 Nalinikanth Kotagiri* 836 S. C. Thomas, T Madaan, Dr. N. S. Kamble, N. Siddiqui, Prof. Nalinikanth Kotagiri 837 838 Division of Pharmaceutical Sciences, James L. Winkle College of Pharmacy, University of Cincinnati, 231 Albert Sabin Way, 839 840 Cincinnati, OH 45267, USA Email id: kotaginh@ucmail.uc.edu 841 842 Prof. Giovanni M. Pauletti, 843 844 Department of Pharmaceutical and Administrative Sciences, University of Health Sciences and Pharmacy in St. Louis, 1 Pharmacy Place 845 846 St. Louis, MO 63110, USA

Supporting Information

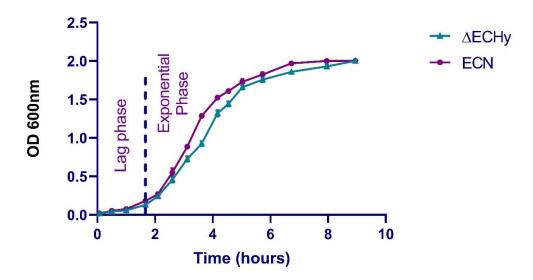
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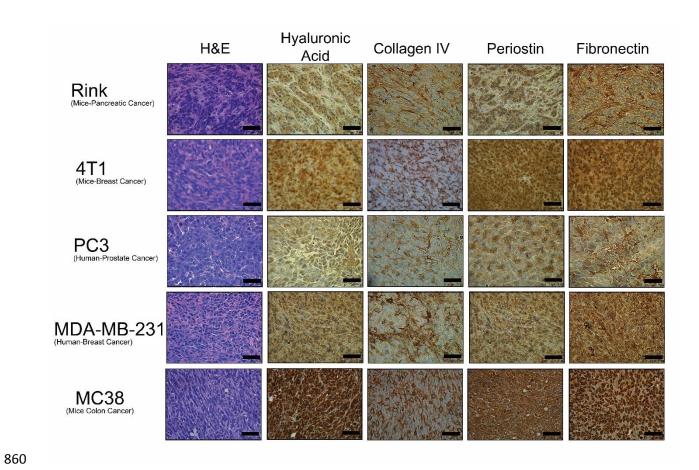
Supplementary Figure S1: (A) Schematic showing deletion of *nlpI* gene using homologous recombination. (B) Colony PCR results showing the presence of the amplified chloramphenicol from the ΔE colonies (500bp).



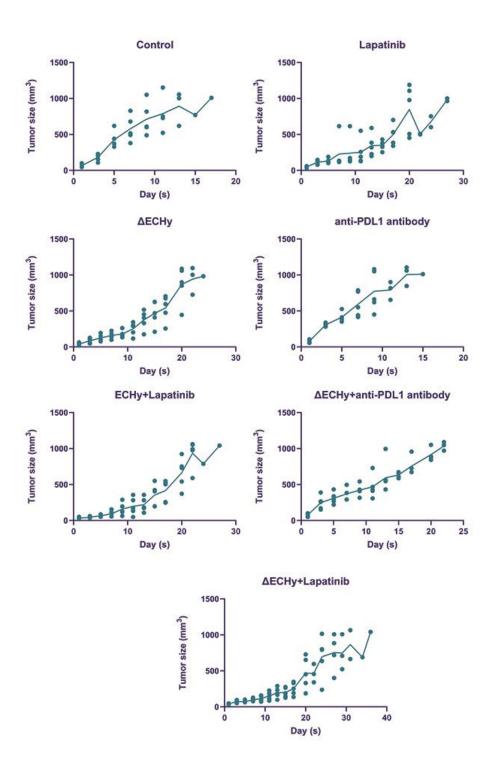
Supplementary Figure S2: Design of the expression plasmid: *pecol19A-ClyA-Hy*.



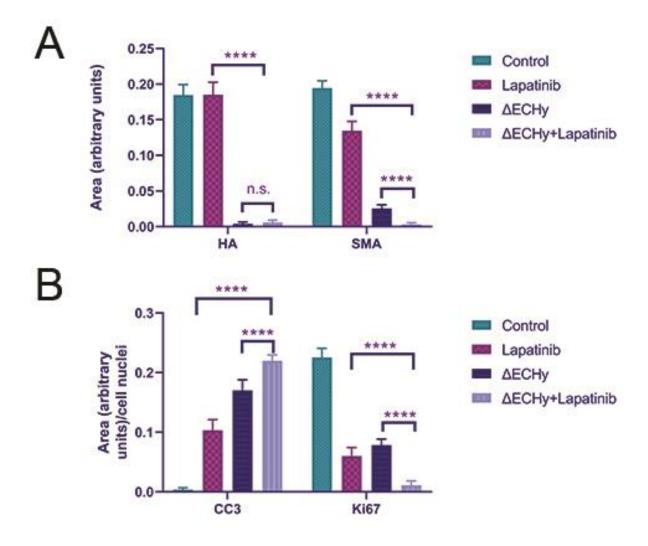
Supplementary Figure S3: ΔECHy and EcN growth curve (Optical Density at 600nm vs time (hours)



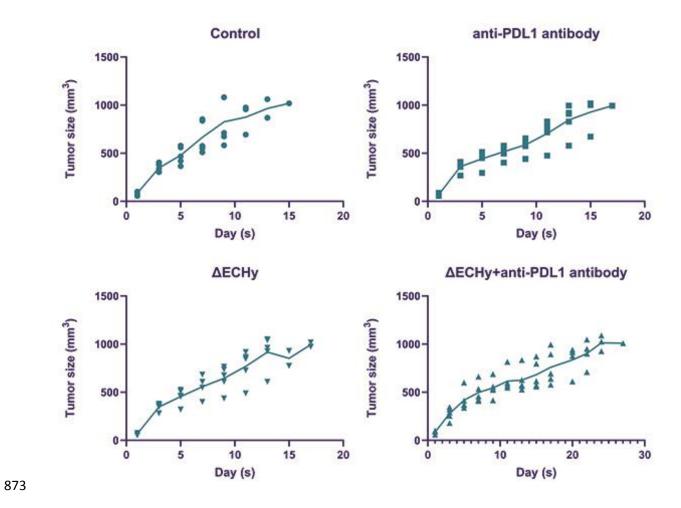
Supplementary Figure S4: IHC analysis of tumor tissues showing abundant extracellular macromolecules: HA, Fibronectin, Periostin and Collagen IV (x400 magnification).



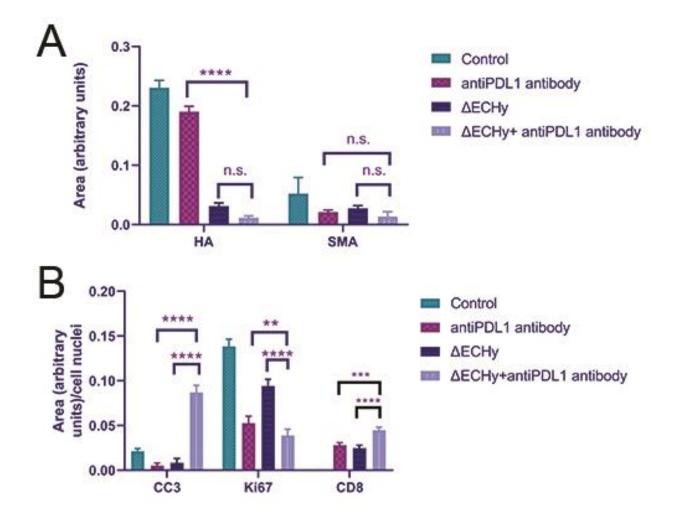
Supplementary Figure S5: Line graphs showing tumor progression in mice with 4T1 tumors for each treatment group tested.



Supplementary Figure S6: 4T1-IHC marker quantification for different treatment groups (**A**) HA and SMA (**B**) CC3 and Ki67. (**** for p<0.0001, ***for p<0.001, ** for p<0.01)

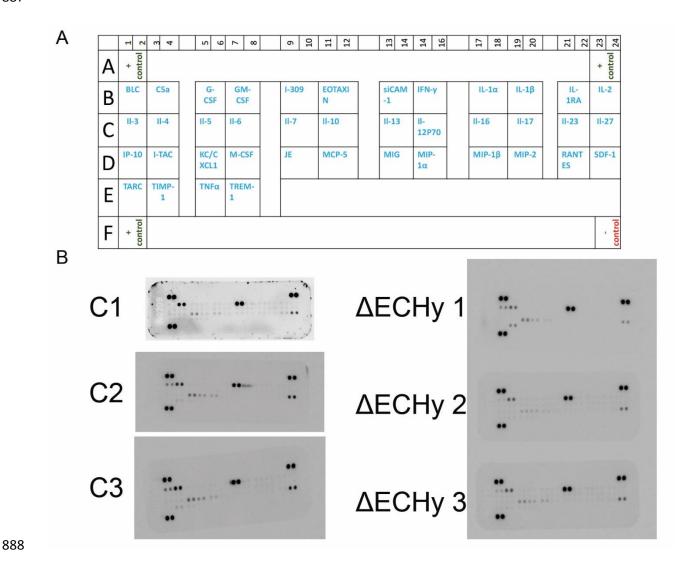


Supplementary Figure S7: Line graphs showing tumor progression in mice with MC38 tumors for each treatment group tested.



Supplementary Figure S8: MC38-IHC marker quantification for different treatment groups (A)

HA and SMA (**B**) CC3, Ki67 and CD8. (**** for p<0.0001, ***for p<0.001, ** for p<0.01)



Supplementary Figure S9: Proteome profiling for studying the regulation of different cytokines and chemokines in mice (plasma). (A) Representative diagram for the location of different spots representing cytokine specific antibodies. (B) Spots developed on the nitrocellulose membrane for each group tested.