Matlab Code for Figures:

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| --- | --- | --- |
| **Folder name** | **Figures** | **Name of the main file to run** |
| Fig\_2A\_2B\_S1 | Fig 2A, 2B,  Fig S1 | Constitutive\_No\_KPR\_Main |
| Fig\_2C\_2D\_2E\_Fig\_3A\_Fig\_3B\_S2\_S4 | Fig 2C, 2D, 2E  Fig 3A, 3B  Fig S2, S4 | Constitutive\_With\_KPR\_Model\_Main |
| Fig\_4A\_4B\_4C\_4D\_4E\_S3 | Fig 4A, 4B, 4C, Fig 4D, 4E,  Fig S3 | Constitutive\_synN\_Model\_Main |
| Fig\_5A\_5B | Fig 5A | Pareto\_Const\_variable\_KD\_only\_Main |
|  | Fig 5B | Data\_Pareto\_KD\_lysisNormal\_Const\_or\_synN\_KD\_fixed |
| Fig\_5C | Fig 5C | Pareto\_synN\_variable\_nH\_KH\_fixed\_KD\_Main |
| Fig\_5D | Fig 5D | Pareto\_synN\_variable\_KD\_only\_Main |
| Fig\_S5 | Fig S5 | Bimodal\_LN\_U\_H\_distribution\_at\_time\_0 |