

Supplementary material, document 2:
Epistemic progress(*) on a smooth landscape

6 May, 2016

Table 1: t=200

| Depletion rate | individual learners $\alpha \sim N(100, 1)$ | social learners $\alpha \sim N(1, 1)$ | diverse population $\alpha \sim U(1, 100)$ |
|-------------------|--|--|---|
| $\lambda = 0$ | 0.6712766 | 0.68794326 | 0.67446809 |
| $\lambda = 0.001$ | 0.64007092 | 0.66117021 | 0.64237589 |
| $\lambda = 0.01$ | 0.73094508 | 0.73680096 | 0.74130448 |
| $\lambda = 0.1$ | 0.95638082 | 0.79495925 | 0.95703181 |

Table 2: t=400

| Depletion rate | individual learners $\alpha \sim N(100, 1)$ | social learners $\alpha \sim N(1, 1)$ | diverse population $\alpha \sim U(1, 100)$ |
|-------------------|--|--|---|
| $\lambda = 0$ | 0.76666667 | 0.76524823 | 0.76099291 |
| $\lambda = 0.001$ | 0.73812057 | 0.75531915 | 0.73705674 |
| $\lambda = 0.01$ | 0.92021604 | 0.89327987 | 0.91922559 |
| $\lambda = 0.1$ | 0 | 0.51543605 | 0 |

Table 3: t=1000

| Depletion rate | individual learners $\alpha \sim N(100, 1)$ | social learners $\alpha \sim N(1, 1)$ | diverse population $\alpha \sim U(1, 100)$ |
|-------------------|--|--|---|
| $\lambda = 0$ | 0.80602837 | 0.79858156 | 0.79521277 |
| $\lambda = 0.001$ | 0.84468085 | 0.85276162 | 0.83599291 |
| $\lambda = 0.01$ | 0.2 | 0.99724911 | 0.45 |
| $\lambda = 0.1$ | 0 | 0 | 0 |