

Video 1: Bacteria undergo a - 0.2 mM/mm MeAsp gradient, and we focus at  $z = 0$ , in contact with agar.

Video 2: Bacteria undergo no gradient, and we focus at  $z = h / 2$ , in bulk.

Video 3: Bacteria undergo a - 0.2 mM/mm MeAsp gradient, and we focus at  $z = h / 2$ , in bulk.