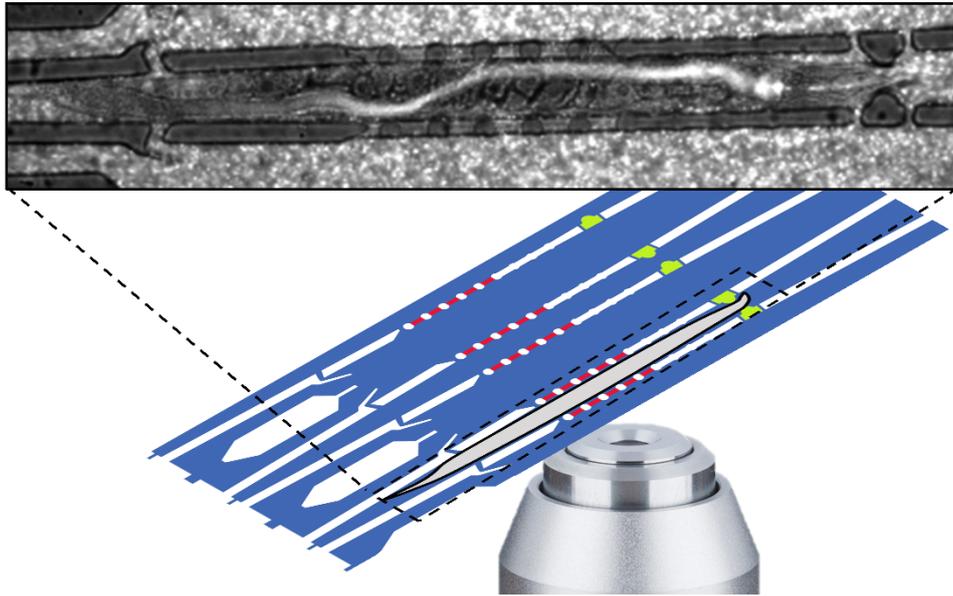


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We present a microfluidic device to study *in vivo* bacterial load dynamics and food absorption in the intestine of *Caenorhabditis elegans*.