Nice motile salmonella screaming along here *sound effects of airplane* here she comes! Boom! Ok it’s got a type 3 secretion system, squirts in proteins, triggers major event -here she comes, and *gulp* ahhh satisfied right? Haven’t taught these videos how to burp yet. Ok bacteria is inside and here's a vacuole coming in, this is Chris’s finger pushing the salmonella in, here's our bacteria. The yellow stuff is actin, that's what's pulling the bacteria in, and it's absolutely needed. We then have fusion with things called early endosomes, this is normal event. Now we're going to zoom in on the bacteria and we're going to see a second type 3 secretion system, a second syringe that is actually going to put proteins out into this vacuole *poof* now we have a protective coating. Now bring on the lysosomes, bring on the toxic delivery particles, bacteria doesn't care... you're going to see these things come in and they glance off. It blocks the fusion of these things so it's not going to die. Not only that but it starts to divide, and divide and divide eventually it will divide so much that this thing will actually probably explode and then release the bacteria. We don't know anything about the final event, that's why I wouldn't let the animators draw the cell exploding because we don't know that happens yet. We guess it does but we haven't seen it.