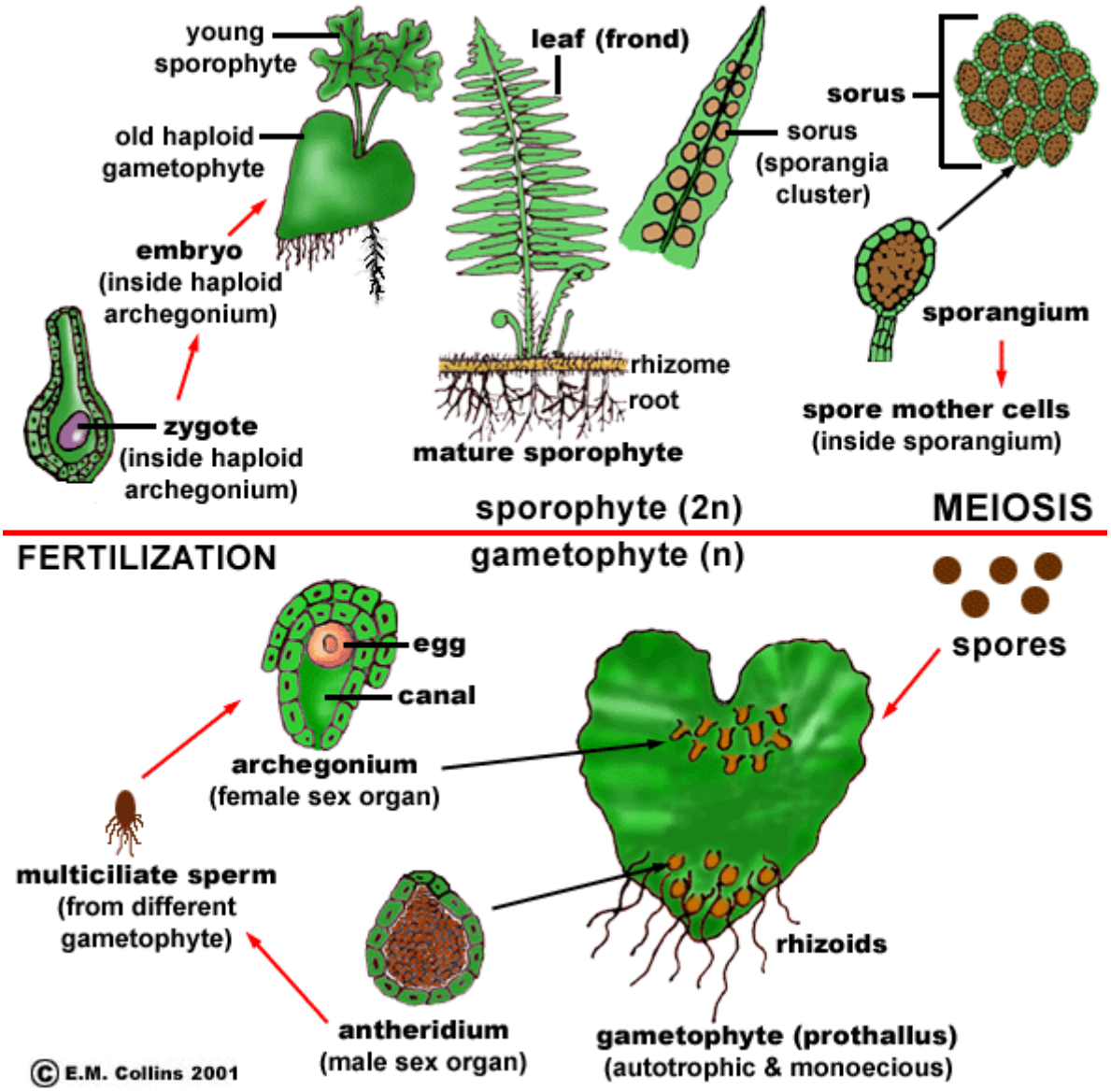Fern Life Cycle