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Binyam was born and raised in Ethiopia and moved to Germany where he studied biochemistry and cell biology at Jacobs University Bremen. He then moved to the UK for his PhD first at the Marie Curie Research Institute in Surrey and later at the Centre for Mechanochemical Cell Biology in Warwick, where he investigated the molecular mechanisms that organize the microtubule cytoskeleton during skeletal muscle differentiation and cell division. After receiving his PhD in cell biology from the University of London, he joined the MRC-LMB in Cambridge (and later at the Max Planck Institute in Göttingen, Germany), where he discovered a function of the actin cytoskeleton in accurate chromosome segregation during female . In 2019, Binyam established his independent research laboratory as a Wellcome Trust and Royal Society Sir Henry Dale fellow and HFSP Young Investigator at the University of Bristol. He joined the Yale MCDB faculty in July 2022 where his lab continues mechanistic cell biology studies of female meiosis and reproductive longevity.