

<b>Proposal Acronym</b>	GENEHOCE
<b>Proposal Title:</b>	Genomics of nematode holocentric centromeres
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<b>Research area:</b>	Life sciences LIF
<b>Sub-discipline of research area:</b>	Genetics, Genomics, Bioinformatics and Systems Biology Genomics - comparative genomics - functional genomics
<b>Category of research:</b>	basic
<b>Keywords:</b>	holocentric centromere, CenH3 protein, root-knot nematode, chromatin immunoprecipitation, CenH3-associated DNA sequences
<b>Abstract:</b>	<p>The centromere is essential for chromosomal segregation, characterized by CenH3 histone protein. The possible synergy between DNA sequences and centromere identifier, CenH3 remains uncertain. A difuse form of the centromere, holocentric centromere, will be characterized by identifying CenH3 and its associated DNA sequences in the root-knot nematode <i>Meloidogyne incognita</i>. Goals will be achieved by combining chromatin immunoprecipitation, next generation sequencing and bioinformatics approaches.</p>
<b>Does this proposal possess any of the sensitive ethical issues detailed in ethical issues table?:</b>	No