



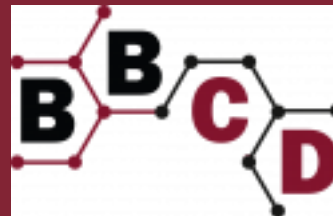
Investigating the basis of cancer and aging-associated centromere instability in human cells

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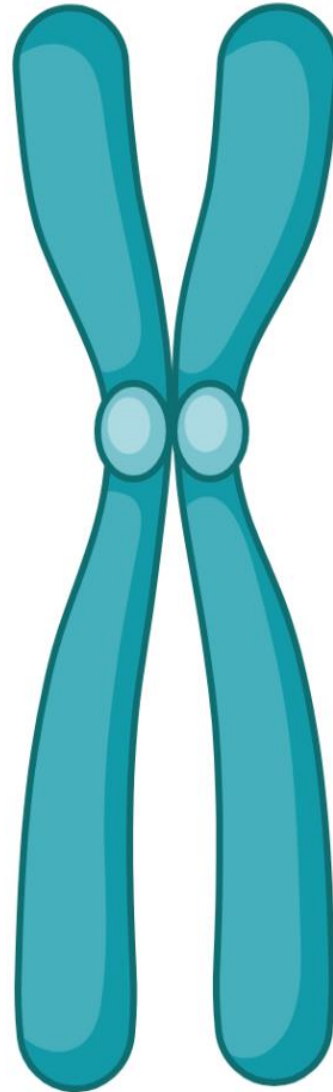


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ACRONYM

CentroFun



Sequence-Structure-Function:
Uncovering how Genetic Variation
at Human Centromere
drives Cellular Phenotypes

YOU!

Simona GIUNTA

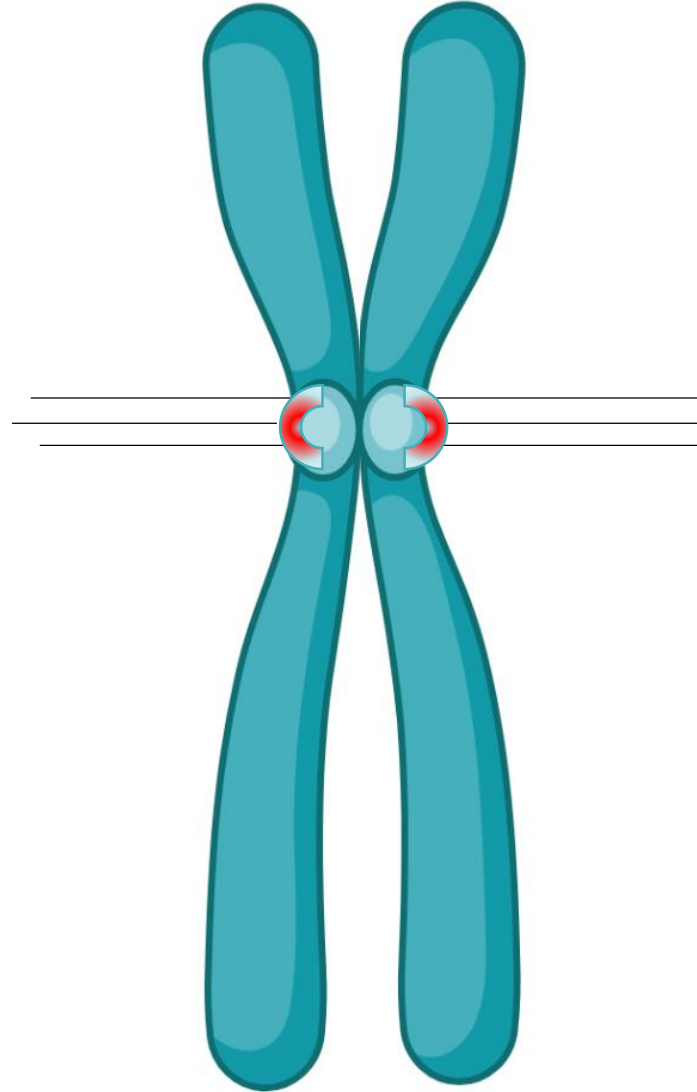


Professional Experience

THE IDEA

Understanding Human Centromeres

Centromeres are Critical for Cell Function



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S. GIUNTA

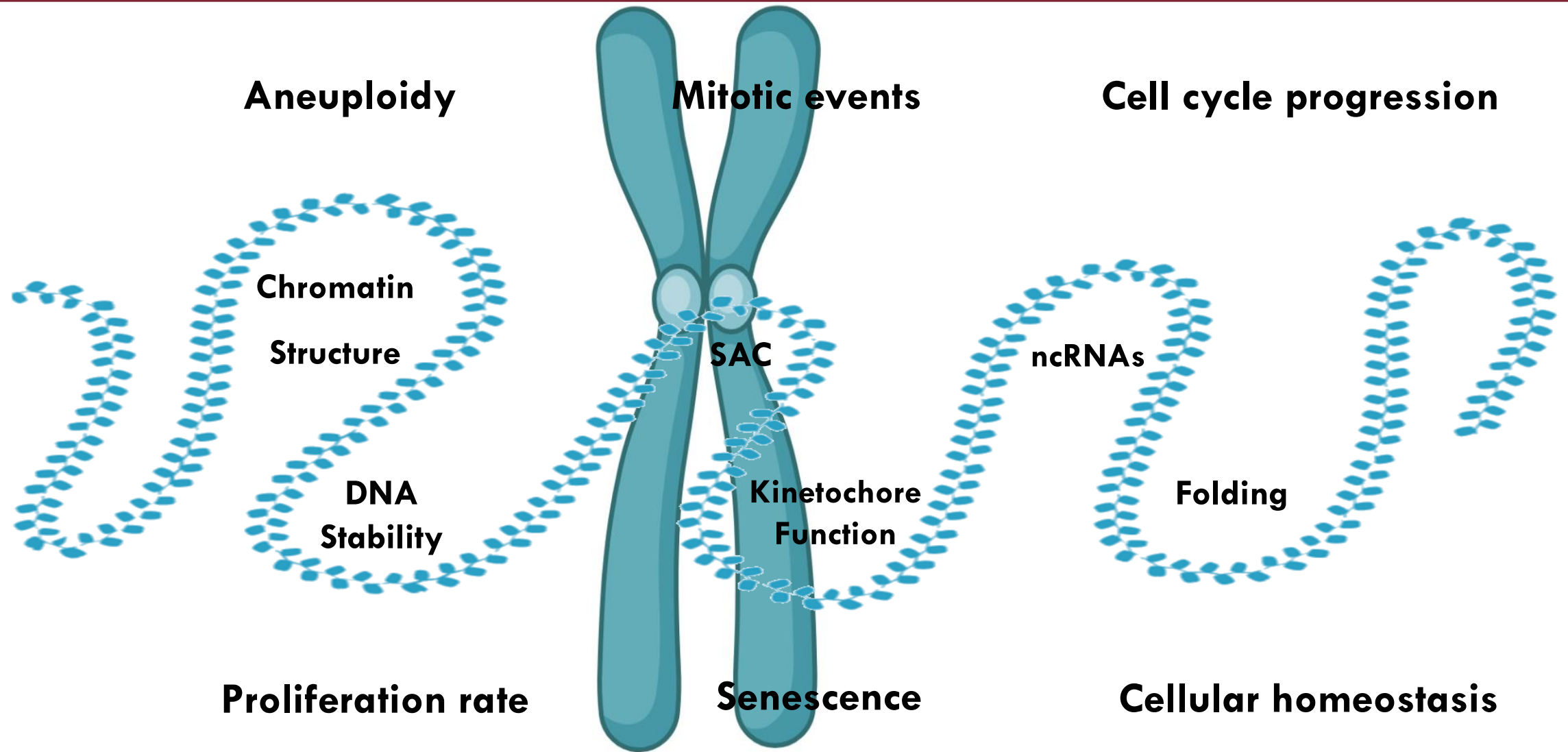
Human centromere DNA stability



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Yet Centromere DNA is Rapidly Evolving

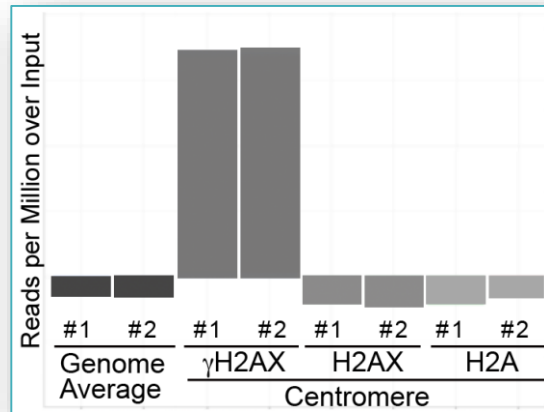


YOU – THE IDEA: A Match Made in Heaven

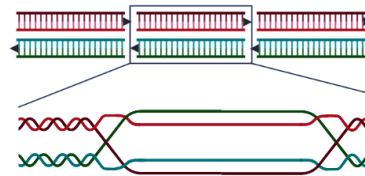
Human Centromeres as a Novel Type of Fragile Sites

Fragile Centromeres

Black & Giunta, 2018



Corda*, Black*, Giunta
Unpublished

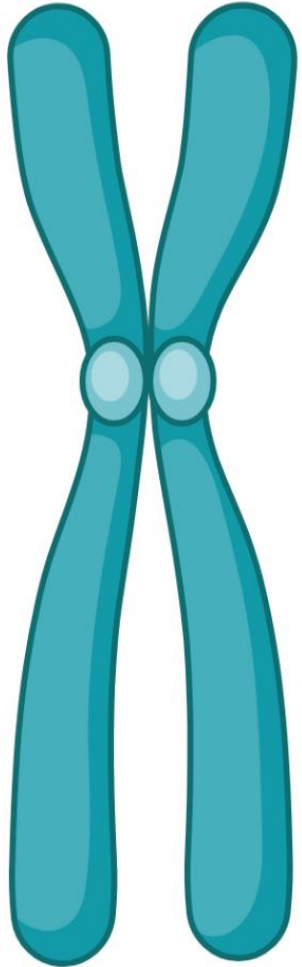


Giunta et al., 2021



INNOVATIVE STRATEGY

Understanding Human Centromeres



- ❑ 1. Structure
- ❑ 2. Sequence
- ❑ 3. Stability
- ❑ 4. Function





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GIUNTA X LAB
Laboratory of Genome Evolution



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European Research Council

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