

University of Groningen

Genome Integrity and Reprogrammed Metabolism in H3.3K27M High-grade Gliomas

Magalhaes, Eduardo Sabino de Camargo

DOI:
[10.33612/diss.797727440](https://doi.org/10.33612/diss.797727440)

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version
Publisher's PDF, also known as Version of record

Publication date:
2023

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):
Magalhaes, E. S. D. C. (2023). *Genome Integrity and Reprogrammed Metabolism in H3.3K27M High-grade Gliomas*. [Thesis fully internal (DIV), University of Groningen]. University of Groningen.
<https://doi.org/10.33612/diss.797727440>

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

PROPOSITIONS

Belonging to the dissertation

GENOME INTEGRITY AND REPROGRAMMED METABOLISM

IN H3.3K27M HIGH-GRADE GLIOMAS

1. In H3.3K27M high-grade gliomas, other biological features than epigenetic dysregulation are at the core of gliomagenesis, and their mechanisms should also be scrutinized in prospective research – *This thesis*
2. A diverse range of biological models is the best approach to study the H3.3K27M mutation, and the molecular strategies used to develop them should be carefully planned – *This thesis*
3. The oncohistone is a source of GIN/CIN in H3.3K27M high-grade gliomas, by promoting replication stress while also interfering with the DNA Damage Response – *This thesis*
4. Although PFKFB3 is considered a main regulator of cancer metabolism, its contributions to oncogenesis go far beyond metabolic reprogramming – *This thesis*
5. PFKFB3 is a potential target for treating H3.3K27M high-grade gliomas – *This thesis*
6. The biggest challenge in developing therapies for H3.3K27M high-grade gliomas is their intrinsic intratumoral heterogeneity, which should be addressed from a metabolic perspective in future studies – *This thesis*
7. “I seem to have been only like a boy playing on the seashore, and diverting myself in now and then finding a smoother pebble or a prettier shell than ordinary, whilst the great ocean of truth lay all undiscovered before me.” – *Isaac Newton*
8. “As scientists, we step on the shoulders of science, building on the work that has come before us - aiming to inspire a new generation of young scientists to continue once we are gone.” – *Stephen Hawking*
9. “Somewhere, something incredible is waiting to be known.” – *Carl Sagan*