

University of Groningen

## Neglected aspects of hormone mediated maternal effects

Kumar, Neeraj

DOI:  
[10.33612/diss.101325389](https://doi.org/10.33612/diss.101325389)

**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:*  
2019

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

*Citation for published version (APA):*

Kumar, N. (2019). *Neglected aspects of hormone mediated maternal effects: Studies on early embryonic modulation of maternal hormonal signals in avian eggs and related methodological aspects*. University of Groningen. <https://doi.org/10.33612/diss.101325389>

### 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.

# Acknowledgements

I'm grateful to Ton – for offering this project and continuous support throughout the project, facilitating my exploration of different ideas and collaborations, conference visits, feedback on the manuscripts, and his overall guidance on PhD matters and beyond. I am also grateful to Manfred for his continuous support throughout the project and writing of manuscripts, especially for chapter 6.

My special thanks to Ido and Martijn for making it possible to collect mass spectrometry data in their lab – without this indispensable help this thesis would not exist in its current form. My sincere thanks to Bonnie for help with setting up the lab work and related discussions. Many thanks to Annie and Hjalmar for data collection, discussions and helpful suggestions for chapter 2, and to Anja for chapter 6.

I thank Gerard so much for troubleshooting during experiments and for nice discussions. I very much acknowledge the help from the animal care taker staff – especially Saskia, Diane, Roelie, and Martijn. I also thank Arjo and Mieke for their support during the use of radioisotope-lab facilities.

I'm thankful to all the co-authors, and to colleagues whose contributions are already acknowledged at the end of each chapter. I'm thankful to the reviewers and journal editors for their contributions to the published chapters. I'm also thankful to the members of the thesis assessment committee and promotion committee for their valuable time and efforts.

I cherish the encouraging discussions with JC (I can't thank you enough for your inspiration), Simon (thank you so much for many tips on Statistics), Bernd (when you asked me 'why sample size of 3?', you were asking the wrong person ;)), and Martine (I really enjoyed the 'Behavioural Biology Literature Club' sessions).

I am thankful to colleagues at the University, especially with whom I shared the office (and coffee) space. Particularly I would like to thank Bin-Yan and Asmoro for all the tips and tricks, and Nele for designing the thesis cover.

I appreciate the kind help of several members of the university administration: Corine (PhD coordinator), Paul (Business coordinator) Pleunie (Secretary), Marco (PhD scholarship desk/Immigration service desk), and Ingrid (Faculty beadle).

I thank my friends from India, HOST, Vineyard (+VSM) and Grace, International Café, and #TeaNoCoffee – you all were so supportive throughout this journey. I also thank Ripping family, *forever-young-at-heart* van Seventers, Kroese family, Berdine and Benno, Cesar and almighty Bruce, and my friends in the Netherlands and abroad for supporting me in so many different ways. Thank you Vijay and Kushi for the kickstart in Groningen, and Kushi for your support through the entire journey. I also thank my colleagues from the Topmaster programme in 'Molecular Biology and Biotechnology' at GBB.

I thank my teachers and fellow group members at Aclo, USVA, and The Blue Toes – for pushing me way beyond my comfort zone; for the challenges, followed by joy. I'm grateful for the laughter and joy that sprang up with my African friends, in particular the

Ghanian community – thank you guys! Frederike and Blondie, thank you so much for keeping me disciplined with affection.

A special mention to Dr. Mina and Dr. Gupta (madams included), without whom the charm and joy would be missing from this journey, thank you docs!

Andrea Bernal, Cor Dijkstra, Desiree Hansen, Lisa Nederveen, Serge Daan, and Vijay Singh (my father) passed away during my PhD journey. I offer my sincere condolences and remembrance for these departed souls.

I will end with this excerpt from Terrence Malick's 'The Tree of Life'.

*“.....there are two ways through life – the way of Nature, the way of Grace. You have to choose which one you'll follow.*

*Grace doesn't try to please itself. Accepts being slighted, forgotten, disliked. Accepts insults and injuries.*

*Nature only wants to please itself. Get others to please it too. Likes to lord it over them. To have its own way. It finds reasons to be unhappy when all the world is shining around it, when love is smiling through all things.*

*.....No one who loves the way of Grace ever comes to a bad end.”*

With gratitude,  
Neeraj

































