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# **GRAUZONE AND COMPLETION OF MEIOSIS DURING DROSOPHILA OOGENESIS**

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by  
**Bin Chen**



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# Grauzone And Completion Of Meiosis During Drosophila Oogenesis

**Jessica J Manson**



## **Grauzone And Completion Of Meiosis During Drosophila Oogenesis:**

**Grauzone and Completion of Meiosis During Drosophila Oogenesis** Bin Chen,2001-05-31 Grauzone and Completion of Meiosis During Drosophila Oogenesis describes the work behind a major award winning discovery the establishment of a new pathway that specifically regulates the female meiosis a process essential for sexual reproduction This book chronicles a new gene mapping method and the cloning and documentation of several types of genes that were proven to have significant influence on the cell cycle It is of interest to anyone doing work with fruit flies both graduate students and principal investigators

**Grauzone and Completion of Meiosis During Drosophila Oogenesis** Bin Chen,2012-12-06 Grauzone and Completion of Meiosis During Drosophila Oogenesis describes the work behind a major award winning discovery the establishment of a new pathway that specifically regulates the female meiosis a process essential for sexual reproduction This book chronicles a new gene mapping method and the cloning and documentation of several types of genes that were proven to have significant influence on the cell cycle It is of interest to anyone doing work with fruit flies both graduate students and principal investigators

**Gene Expression at the Beginning of Animal Development** M.L. DePamphilis,2002-09-30 The beginning of life may be a miracle to some and a mystery to others but it is certainly one of the most exciting and perhaps controversial fields of scientific investigation in the 21st century Among the metazoa life begins when an egg is fertilized by a sperm The sperm provides a genetic blueprint from the father and perhaps some critical proteins The egg provides a genetic blueprint from the mother together with a large reservoir of mRNAs and proteins that are required for DNA replication cell division and the onset of zygotic gene expression All of the thousands of genes in these two mature gametes are transcriptionally silent and remain so until fertilization This work focuses on three biological systems providing the reader with a clear understanding of the current state of affairs and the ability to identify common principles as well as critical differences that are responsible for beginning the process of animal development The essays presented will be of practical value to all those who are interested in improving fertilization in vitro in designing novel methods of contraception in developing preimplantation genetic diagnosis for various diseases in cloning animals by transplanting nuclei from adult cells to an enucleated egg and in the application of embryonic stem cells to curing genetic diseases or replacing damaged tissues But above all this volume is offered to those who simply have an insatiable curiosity about life and its beginnings

**Book Review Index** ,2003 Every 3rd issue is a quarterly cumulation **Genetics Abstracts** ,2000 Completion of Meiosis in Drosophila Oocytes Requires Transcriptional Control by Grauzone, a New Zinc Finger Protein Bin Chen,1999 Cumulated Index Medicus ,2000 *Dissertation Abstracts International* ,2008

*American Book Publishing Record* ,2001 **The British National Bibliography** Arthur James Wells,2001

**Comprehensive Molecular Insect Science** Lawrence I. Gilbert,Kostas Iatrou,Sarjeet S. Gill,2005-01-03 The important developments and achievements in modern insect science since the first edition have led to this new revised expanded and

retitled reference work New chapters in this edition include the ecdysone receptor lipocalins bacterial toxins etc Each article may also be read independently as a review of that particular subject Comprehensive Molecular Insect Science also covers new technologies that have been developed since 1985 The Index Volume will help researchers to track specific subjects and particular species of insects cited in several volumes Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com) Key Features Revised edition of critically acclaimed Comprehensive Insect Physiology Biochemistry and Pharmacology 1985 Pergamon Press 13 Volume Set Written by a distinguished international group of contributors Well organized format provides for concise readable entries easy searches and thorough cross references Complete up to date coverage of many important topics essential information for scientists students and professionals alike

**Molecular Biology of the Cell**, 1997 *Entomology Abstracts*, 2001 *Journal of Cell Science*, 1996 **The Cloning of Grauzone, a Gene Required for the Completion of Meiosis in Drosophila Oocytes** Emily Birch Harms, 2000 *The Developmental Role and Regulation of the Anaphase-Promoting Complex/Cyclosome in Drosophila Meiosis* Pesin-Fulop Pesin, 2007 Meiosis is a modified cell cycle in which two round of chromosome segregation occur without an intervening DNA synthesis phase As in mitosis these cell divisions are driven in part by proteolysis mediated by the Anaphase Promoting Complex Cyclosome APC C During oogenesis of multicellular organisms molecular control of meiosis has an added complexity because these divisions must be coordinated with the growth and development of the oocyte as well as its fertilization The Drosophila gene cortex cort a putative female meiosis specific APC C activator provides a unique opportunity to study the role of the APC C in metazoan meiosis We demonstrate that CORT protein associates with the core APC C in ovaries confirming its function as an activator of the APC C CORT triggers the sequential degradation of mitotic Cyclins in meiosis as well as causing the degradation of PIMPLES the Drosophila homolog of Securin Both post transcriptional and post translational regulation of cort result in expression of CORT protein being restricted to the meiotic divisions Cytoplasmic polyadenylation of cort mRNA is tightly correlated with appearance of the protein in mature oocytes At the end of meiosis CORT is rapidly degraded in an APC C and D box dependent manner We initiated a genetic screen to identify substrates of APC CCORT using grauzone grau mutants a gene encoding a transcriptional activator of cort We have identified at least one deficiency on the third chromosome Df 3R p XT103 that dominantly suppresses grau Levels of BEL a protein encoded within this deficiency are elevated in cort mutants Our analysis of the regulation of CORT protein levels reveals one mechanism that may be important for developmental control of meiotic progression and the transition from meiosis to embryonic mitotic divisions In addition our screen to identify meiosis specific substrates of APC CCORT has the potential to uncover novel regulators of meiosis in a multicellular organism *The Oocyte-to-embryo Transition* Lisa Suzanne Weingarten, Massachusetts Institute of Technology.

Department of Biology, 2013 In oogenesis meiosis must be highly regulated to ensure that growth of the oocyte and chromosomal segregation are coordinated properly To do this meiosis arrests at two points to permit oocyte differentiation and coordination with fertilization In *Drosophila* the first arrest in prophase I is released by oocyte maturation and the second arrest in metaphase I is released by egg activation This thesis explores mechanisms controlling these two processes First the putative role of the Deadhead DHD thioredoxin in *Drosophila* female meiosis is examined Possible roles that DHD may play in DNA replication ROS RNS redox pathways and vitelline membrane crosslinking are explored Furthermore current research into the role of Ca<sup>2+</sup> as a regulator of *Drosophila* egg activation is summarized Recent studies have suggested that Sarah Sra a regulator of Calcineurin CN is required for egg activation and meiotic completion A model for Sra CN signaling is presented highlighting the role of Ca<sup>2+</sup> in *Drosophila* activation and emphasizing aspects of meiotic activation conserved across species Finally proteins recovered from a large scale proteomic screen undertaken by our lab are discussed This screen identified proteins that increase or decrease significantly during the processes of maturation and activation through quantitative mass spectrometry Pairwise comparison of protein levels between pre and post maturation oocytes stage 10 vs stage 14 oocytes or pre and post activation eggs stage 14 vs unfertilized eggs identified candidate proteins up and downregulated during one or both of these processes These candidates include proteins involved in calcium binding and transport the ubiquitination pathway steroid biosynthesis and metabolism and a gap junction protein Additional characterization of these proteins may provide further insight into the regulation of *Drosophila* maturation and activation

The Role of Ya Protein in *Drosophila* Female Meiosis Cindy L. Berman, 2000      **A Meiosis-specific Form of the Anaphase Promoting Complex/Cyclosome Regulates the Oocyte-to-embryo Transition in *Drosophila*** Zachary James Whitfield, Massachusetts Institute of Technology. Department of Biology, 2013 Cell cycle transitions during mitosis and meiosis must proceed in an irreversible manner At the heart of this is the Anaphase Promoting Complex Cyclosome APC C an E3 ubiquitin ligase The APC C targets its substrates for degradation and thus progresses the cell cycle irreversibly forward Many substrates of the APC C have been identified in mitosis but how the APC C regulates meiosis is less well understood The *Drosophila* gene cortex encodes a female meiosis specific activator of the APC C We set out to identify specific substrates of APC Cort both genetically and biochemically A genetic screen identified five deficiencies that suppress an arrest caused by low APC Cort activity In some cases these deficiencies could be narrowed to regions containing only a few genes IP mass spectrometry was also performed to identify interactors of Cortex One hit was Matrimony a potent inhibitor of Polo kinase during prophase 1 Cort and Mtrm can interact directly in vitro while a mitotic APC C activator fzy cdc20 cannot Mtrm proteins levels are drastically reduced upon completion of meiosis and this reduction is dependent on cort When expressed in cell culture Cort causes a proteasome dependent decrease in Matrimony protein levels Cort and Mtrm also interact genetically and overexpression of Mtrm in the early embryo causes developmental defects in a subset of embryos This work

contributes to our understanding of the meiotic cell cycle and the specific regulation that distinguishes it from mitosis  
*Ensuring ORDer During Meiosis* Christopher R. Abrecht, Dartmouth College. Department of Biological Sciences, 2008

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