

# Caenorhabditis Elegans Cell Biology And Physiology Volume 107 Second Edition Methods In Cell Biology

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### [Caenorhabditis Elegans Cell Biology And](#)

#### **Cell Biology of the Caenorhabditis elegans Nucleus**

ABSTRACT Studies on the Caenorhabditis elegans nucleus have provided fascinating insight to the organization and activities of eukaryotic cells Being the organelle that holds the genetic blueprint of the cell, the nucleus is critical for basically every aspect of cell biology

#### **Caenorhabditis elegans as a Model for Stem Cell Biology**

Caenorhabditis elegans as a Model for Stem Cell Biology Pradeep M Joshi,<sup>1</sup> Misty R Riddle,<sup>2</sup> Nareg JV Djabrayan,<sup>2</sup> and Joel H Rothman<sup>1,2\*</sup> We review the application of Caenorhabditis elegans as a model system to understand key aspects of stem cell biology The only bona fide stem cells in C elegans are those of the germline, which serves as

#### **Crystal Structure of the Caenorhabditis elegans ... - Cell**

In Caenorhabditis elegans (C elegans), PCD is carried out by the CED-3 caspase Similar to all known caspases, CED-3 is synthesized as an inactive

zymogen in cells and its maturation involves autocatalytic cleavages Autoactivation of CED-3 strictly depends on the adaptor protein CED-4 In response to cell death stimuli, CED-

### **The Caenorhabditis elegans gonad: A test tube for cell and ...**

lished the nematode *Caenorhabditis elegans* as a paradigm for studying gonadogenesis Further-more, these studies demonstrate the utility of *C. elegans* gonadogenesis for exploring broad issues in cell and developmental biology, such as cell fate specification, morphogenesis, cell signaling, cell cycle control, and programmed cell death

### **Radiation Biology of Caenorhabditis elegans: Germ Cell ...**

*C. elegans* is a well-known unique model organism in the biological research for complete cell lineage, 2) neuronal networks 3) and genome sequence 4) These advantages make *C. elegans* as a good “ in vivo ” model system in the field of radiation biology The first study on the effects of ionizing radiation (IR) in *C. elegans* was

### **Programmed Cell Death During Caenorhabditis elegans ...**

ing biology of *C. elegans*: (1) unlike in many other organisms, programmed cell death is not essential for *C. elegans* viability, at least under laboratory conditions (Ellis and Horvitz 1986); (2) cells undergoing programmed cell death in *C. elegans* change their morphology and refractivity and can be observed in living animals using differential in-

### **The natural history of Caenorhabditis elegans research**

vision of biology, including what molecular The nematode *Caenorhabditis elegans* is well known to practising biologists as a model organism Early work with *C. elegans* is best understood as part of a descriptive tradition in biological practice Although the resources that have been generated by the *C. elegans* community have been revolutionary,

### **A Transparent window into biology: A primer on ...**

*Caenorhabditis elegans* as a genetic model for understanding questions of developmental biology and neurobiology Over time, research on *C. elegans* has expanded to explore a wealth of diverse areas in modern biology including studies of the basic functions and interactions of eukaryotic cells, host-parasite interactions, and evolution

### **P Granule Assembly and Function in Caenorhabditis elegans ...**

in *Caenorhabditis elegans* Germ Cells DUSTIN UPDIKE AND SUSAN STROME From the Department of Molecular Cell and Developmental Biology, University of California Santa Cruz, Santa Cruz, California ABSTRACT: Germ granules are large, non-membrane-bound, ribonucleoprotein (RNP) organelles found in the germ line cytoplasm of most, if not all, animals

### **Segregation of germline granules in early embryos of ...**

From the Department of Molecular, Cellular and Developmental Biology, University of Colorado SUMMARY Using an improved fixation method for electron microscopy, we have found germline granules in *Caenorhabditis elegans* embryos shortly after fertilization and prior to the first cleavage

### **Gonadal Maturation Changes Chemotaxis Behavior ... - cell.com**

Current Biology Article Gonadal Maturation Changes Chemotaxis Behavior and Neural Processing in the Olfactory Circuit of *Caenorhabditis elegans* Manabi Fujiwara,1,\* Itaru Aoyama,1 Takahiro Hino,1 Takayuki Teramoto,1 and Takeshi Ishihara1 1Department of Biology, Faculty of Science, Kyushu University, Fukuoka 819-0395, Japan \*Correspondence: fujiwaramanabi734@mkyushu-uacjp

### **The Immunoglobulin-like Gene spe-45 Acts during ... - Cell**

Current Biology Report The Immunoglobulin-like Gene spe-45 Acts during Fertilization in *Caenorhabditis elegans* like the Mouse Izumo1 Gene Hitoshi Nishimura,1,2,\* Tatsuya Tajima,1 Heather Skye Comstra,2,3 Elizabeth J Gleason,2 and Steven W L'Hernault2,\* 1Department of Life Science, Setsunan University, Neyagawa, Osaka 572-8508, Japan 2Department of Biology, Emory University, ...

### **Neuronal Cell Lineages in the Nematode *Caenorhabditis elegans***

Neuronal Cell Lineages in the Nematode *Caenorhabditis elegans* JE SULSTON Laboratory of Molecular Biology, Medical Research Council Centre, Cambridge CB2 2QH, England One of the attractive properties of the small nematode *Caenorhabditis elegans* (Fig 1) is that the divisions,

### **CELL BIOLOGY Copyright © 2020 High-throughput small ...**

*Caenorhabditis elegans*, although not in testing performed in worms and flies with a more restricted set of compounds Transcriptomic analysis and genetic studies implicated Nrf2/SKN-1 signaling in stress resistance provided by two protective compounds, cardamomin and AEG 3482 Small molecules identified in this work may represent

### **A Transparent Window into Biology: A Primer on ...**

biology, etc) have made *C. elegans* an excellent organism with which to study general metazoan biology At least 38% of the *C. elegans* protein-coding genes have predicted ortho-logs in the human genome (Shaye and Greenwald 2011), 60–80% of human genes have an ortholog in the *C. elegans* genome (Kaletta and Hengartner 2006), and 40% of genes

### **Transcriptome analysis of adult *Caenorhabditis elegans* ...**

RESEARCH ARTICLE Transcriptome analysis of adult *Caenorhabditis elegans* cells reveals tissue-specific gene and isoform expression Rachel Kaletsky1,2□, Victoria Yao2,3□, April Williams1,2, Alexi M Runnels1,2, Alicja Tadych2, Shiyi Zhou1,2, Olga G Troyanskaya2,3,4\*, Coleen T Murphy1,2\* 1 Department of Molecular Biology, Princeton University, Princeton, New Jersey, United States of ...

### **Structures and functions of collagens in *Caenorhabditis* ...**

Department of Cell, Molecular, and Structural Biology, Northwestern University Medical School, Chicago, Illinois ABSTRACT Two types of collagens have been identified in *Caenorhabditis elegans* corresponding to two types of extracellular matrix, the cuticle and basement membranes Cuticle collagens are encoded by a developmentally regulated

### **C. elegans Development, Cell Biology, & Gene Expression ...**

*Caenorhabditis elegans* 12:30 Jun Takayama (Lab: Onami) Timely Generation of the Fertilization Calcium Wave by a Sperm TRP Channel 12 :45 Simona Rosu (Lab: Villeneuve) Regulation of Meiotic DSB Formation in *C. elegans* 1:00–2:30 pm Luncheon Buffet Inn Wisconsin 2:30–5:30 pm Platform Session #4 Union Theater Cell Cycle and Cell Biology

### **Hepatitis B virus X protein targets the Bcl-2 protein ...**

Hepatitis B virus X protein targets the Bcl-2 protein CED-9 to induce intracellular Ca<sup>2+</sup> increase and cell death in *Caenorhabditis elegans* Xin Genga, Brian L Harry a,1, Qinghua Zhou , Riley Robert Skeen-Gaara, Xiao Geb, Eui Seung Leea, Shohei Mitanic, and Ding Xuea,b,2 aDepartment of Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, CO 80309; bSchool of Life