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Brain Behavior Symposium:

Vanessa Ruta Lecture 5

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Biology: Introduction to

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Neuroscience and ADD in  
Gifted Children ~~WEBINAR:~~

~~Explore the brain of a fly~~

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Simulation #624 Big Tree -

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*Role of Drosophila in*

*genetic experiments* **Network**

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Neurobiology: Mapping and  
Modeling Complex Brain  
Networks (Dr. Olaf Sporns)

Genetics - Thomas Morgan

\u0026 Fruit flies - Lesson

10 | Don't Memorise

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Mike Levine (UC Berkeley)

Part 1: Transcriptional

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Neurobiology: Enhancers

Can we stay young forever?

This is how you treat ADHD

based off science, Dr

Russell Barkley part of 2012

Burnett Lecture ~~6 Month~~

~~Results: Update on my NMN~~

~~(Nicotinamide~~



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~~Mononucleotide) Experiment~~

~~Fruit fly developmental~~

~~stages Drosophila~~

~~Gastrulation Choices that~~

~~can Change your Life |~~

~~Caroline Myss |~~

~~TEDxFindhornSalon~~

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Fruit fly development in 3D

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ADHD As A Difference In

Cognition, Not A Disorder:

Stephen Tonti at TEDxCMU

Drosophila Cultures †

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~~1: Connectomics: seeking  
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**Introduction to Hedgehog**

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**Synthesis and Release** *The*

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continues to advance our understanding of the molecules that mediate brain development and function.

Many of these genes are conserved from flies to humans, arguing that these studies will have a

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significant impact on our  
understanding of human  
health and disease.

*Fly neurobiology:  
development and function of  
the brain ...*

Development and Neurobiology



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this volume were presented

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at an international

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development development

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of Drosophila.*

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The fruit fly *Drosophila melanogaster* has been extensively studied for over a century as a model organism for genetic investigations. It also has many characteristics that make it an ideal organism

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Neurobiology Of animal development and behavior, neurobiology, and human genetic diseases and conditions. Image Source: [biology.kenyon.edu](http://biology.kenyon.edu)

*Drosophila Development-*

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to brainstorm as in the past  
continuing advances in the

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This year's meeting will  
continue the bi-annual  
tradition of providing a

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forum for presentation of the most exciting and cutting-edge research currently ongoing in the field of neuroscience using the *Drosophila* model. With sessions ranging from synaptic transmission and

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neuronal development all the way to higher brain function and disease modeling, the program will provide broad coverage of the field from molecular to systems neuroscience.



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There is no multicellular animal whose genetics is so well understood as

*Drosophila melanogaster*. An increasing number of biologists have, therefore, turned to the fruitfly in



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pursuit of such diverse areas as the molecular biology of eukaryotic cells, development and neurobiology. Indeed there are signs that *Drosophila* may soon become the most central organism in biology

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for genetic analysis ...

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Drosophila melanogaster. An increasing number of biologists have, therefore, turned to the fruitfly in pursuit of such diverse areas as the molecular biology of eukaryotic cells, development and



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neurobiology. Indeed there are signs that *Drosophila* may soon become the most central organism in biology for genetic analysis of complex problems. The papers in this collection were presented at a conference on

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Neurobiology Of Behavior of  
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Institute of Fundamental  
Sciences Research from 19th to 22nd  
December, 1979. The volume  
reflects the commonly shared  
belief of the participants  
that Drosophila has as much

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to contribute to biology in the future as it has in the past. We hope it will be of interest not merely to Drosophilists but to all biologists. We thank Chetan Premani, Anil Gupta, K.S. Krishnan, Veronica

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Rodrigues, Hemant Chikermane  
and K. Vijay Raghavan for  
help with recording and  
transcription of the  
proceedings and Vrinda Nabar  
and K.V. Hareesh for  
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thank Samuel Richman, Thomas

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Schmidt-Glenewinkel and T.R. Venkatesh for their valuable assistance in proofreading the manuscripts, and we also thank Patricia Rank for her excellent effort in the preparation of the final manuscripts. The conference

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was supported by a grant  
from Sir Dorabji Tata Trust.

## Neurobiology Of Drosophila Basic Life Sciences

Based on Cold Spring Harbor  
Laboratory's long-running  
course, *Drosophila*

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### Neurobiology: A Laboratory

Manual offers detailed protocols and background material for researchers interested in using *Drosophila* as an experimental model for investigating the nervous

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system. This manual covers three approaches to the field: analysis of neural development, recording and imaging activities in the nervous system, and analysis of behavior. Techniques described include molecular,



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genetic,  
electrophysiological,  
Drosophila Basic Life  
imaging, behavioral and  
Sciences  
developmental methods.

Developmental Neuroscience

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is one of the six core disciplines in Neuroscience, and yet no single volume, non-textbook reference exists on the market that provides researchers with more in-depth, high-level information on developmental

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neurobiology. Currently, anyone interested in the field at a higher level must sift through review articles published frequently and the more specific handbooks that focus on aspects of development rather than the

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Neurobiology Of This field as a whole. This reference is the first of its kind to fill this need. It pulls together the relevant articles on the topic from the 10-volume Encyclopedia of Neuroscience (Academic Press, 2008) and

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serves as an affordable and immediate resource for scientists, postdocs, graduate students with an interest beyond the basic textbook materials on the subject. The first and only comprehensive, single-volume

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reference for developmental neuroscience that goes beyond the basic textbook information The 93 chapters cover topics ranging from cell fate determination, path finding, synapse generation, neural stem

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cells, to neurodegeneration  
and regeneration, carefully  
selected from the

Encyclopedia of Neuroscience  
by one of the great  
developmental

neuroscientists, Greg Lemke  
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field provide their  
conclusions in the context  
of the latest experimental  
results

The *Drosophila* larval  
neuromuscular junction (NMJ)  
has become one of the most



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powerful model systems to ask key neurobiological questions. This synapse is unparalleled by its accessibility, its simplicity, and the ability to manipulate genes important for synapse

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development and function.

Its synapses have properties shared by many organisms including humans. The vast majority of genes that when mutated cause congenital disorders of the nervous system in humans, are

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present in the fruit fly genome, and fly models of human disorders are available. Thus, this preparation is a powerful tool to understand the normal function of these genes. This book reviews

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outstanding work by  
recognized leaders in the  
fields of Drosophila  
cellular neurogenetics  
including developmental  
neurobiology, mechanisms of  
synaptic function, and  
experience dependent changes

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at synapses. The book also includes step-by-step protocols to study the cellular biology of the NMJ, making it a vital resource for researchers beginning their investigations with this system, for those who

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are training students and postdoctoral fellows in this area, or simply as a general reference material for neuroscientists and neuroscience professors in general. \* Provides a synthesis of the main topics

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in modern neurogenetics \*

Includes step-by-step  
protocols for the use of the

Drosophila NMJ system in

neurobiology lab research \*

Offers genetic approaches to

study synapse development

and function \*

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The fruitfly *Drosophila melanogaster* is an ideal model system to study processes of the central nervous system. This book provides an overview of some major facets of recent



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research on Drosophila brain  
development.

1 Kevin Moses It is now 25  
years since the study of the  
development of the compound  
eye in Drosophila really  
began with a classic paper

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(Ready et al. 1976). In 1864, August Weismann published a monograph on the development of Diptera and included some beautiful drawings of the developing imaginal discs (Weismann 1864). One of these is the

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first description of the third instar eye disc in which Weismann drew a vertical line separating a posterior domain that included a regular pattern of clustered cells from an anterior domain without such

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a pattern. Weismann suggested that these clusters were the precursors of the adult ommatidia and that the line marks the anterior edge of the eye. In his first suggestion he was absolutely correct - in his

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second he was wrong. The vertical line shown was not the anterior edge of the eye, but the anterior edge of a moving wave of patterning and cell type specification that 112 years later (1976) Ready, Hansen

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and Benzer would name the  
"morphogenetic furrow".

While it is too late to hear  
from August Weismann, it is  
a particular pleasure to be  
able to include a chapter in  
this Volume from the first  
author of that 1976 paper:

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Don Ready! These past 25 years have seen an astonishing explosion in the study of the fly eye (see Fig.

Synapse Development and Maturation, the latest

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Neurobiology Of Comprehensive  
Developmental Neuroscience  
series, presents the latest  
information on the genetic,  
molecular and cellular  
mechanisms of neural  
development. The book  
provides a much-needed



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update that underscores the latest research in this rapidly evolving field, with new section editors discussing the technological advances that are enabling the pursuit of new research on brain development. This

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Neurobiology Of the  
synaptogenesis and  
developmental sequences in  
the maturation of intrinsic  
and synapse-driven patterns.  
Features leading experts in  
various subfields as section  
editors and article authors

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Neurobiology Of that have  
been peer reviewed to ensure  
accuracy, thoroughness and  
scholarship Includes  
coverage of mechanisms which  
regulate synapse formation  
and maintenance during  
development Covers neural

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activity, from cell-  
intrinsic maturation, to  
early correlated patterns of  
activity

It is appropriate at the  
outset of this book to pose  
a question that was often

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asked --of the organizers before the meeting took place and later among those who participated in the meeting -- "What is meant by 'Systems Approaches' in the study of developmental neurobiology?" The answer,

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as we originally conceived it, can be succinctly summarized by the word "interactions". That brief epithet was expanded during the general discussion portion of the meeting, where the following

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definition was offered:

"Systems approaches in developmental neurobiology are unified by attention to the emergent properties of the developing system under investigation and by a focus on the aspects of

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Neurobiology Of development of the nervous system that depend on interactions among its various elements, be they molecular, intracellular or multicellular. " As opposed to ignoring complexity or trying to wish it away,



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those of us who utilize a systems approach embrace the principle that complexity is what makes the nervous system special. We have come to recognize that wherever we look, we find interactions which are to be

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probed and eventually understood. Even the so-called "simple systems", a term that has been used to describe many invertebrate preparations, are embraced under the above definition, since with further study it

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is becoming increasingly clear that such systems are not as simple as once thought. We also include molecular genetics under the systems rubric. After all, genes regulate other genes which regulate others, and so it

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