

Read PDF The
Development Of
The Rat Spinal
Cord Advances
The
Development
Of The Rat
Spinal Cord
Advances

*Cognitive deficits are
characteristic
symptoms of
schizophrenia, but
remain largely*

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*untreated. Targeted
Cognitive Training*

(TCT), a

computerized training

regimen designed to

enhance spared

function, is a putative

new treatment for this

symptom class.

Mechanisms

underlying the effects

of TCT are unclear,

however. This thesis

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*describes three main
studies (and one
supplemental study)
that aimed to develop
and validate the Rat
Sweep Discrimination
Task (RSDT), a
putative model of the
Auditory Sweep
Discrimination Task
featured in human
TCT. Nine different
permutations of the*

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basic RSDT were developed, each of which were intended to build rats' association of auditory frequency "sweeps" with requisite response outputs. Rats were unable to reliably complete the RSDT without assistance from spatial cues. In

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order to probe the pharmacological predictive validity of the RSDT, we assessed the effects of d-amphetamine (d-AMPH, previously demonstrated to facilitate the effects of TCT in humans; 0.1, 0.25, 0.30 mg/kg, i.p.) on performance of the one version of the

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task in which rats were most competent (full spatial cues). No effect of d-AMPH was observed on any measure of the RSDT, which, taken together with rats' overall poor performance in the majority of the RSDT versions developed, indicates that the

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RSDT requires further refinement before it can be applied as a model of human TCT. Possible limitations of the studies are discussed, and it is concluded that sub-optimal auditory stimulus specifications were the most likely cause of rats' poor

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*performance, and
that small sample
sizes likely prevented
the detection of d-
AMPH effects.*

*Studies on the
Development of
Hepatic
Gluconeogenesis in
the Rat
The Development of
the Rat Spinal Cord
Development of the*

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*Rat Spinal Cord
On the Development
of the Embryonic Rat
Pancreas*

*The Laboratory Rat
This edition
provides an
update on the
latest findings
on the
development
of the rat spinal
cord. The*

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expression patterns of several morphoregulators were investigated using immuno-/histochemistry and are discussed in relation to the known anatomy of the spinal cord. The

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***embryonal
development of
different fiber
systems was
studied using a
newly develo-
ped
intrauterine
tracing
technique. In a
multidisciplinary
effort the
different***

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***studies were
integrated and
new ideas on
the
developmental
events in the
rat spinal cord
discus- sed.***

***The
Development of
Rat Embryos in
Tissue Culture
The***

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*development of
the muscles of
mastication in
the rat / J.*

*Rayne ; G. N. C.
Crawford. Bd.
44. H. 5*

*Studies on the
Development of
a Rat Model for
Human
Gestational
Diabetes*

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***Observations
Using Optimal
and
Experimental
Media
Towards the
Development of
a Rat Model of
Human
Targeted
Cognitive
Training***

The Laboratory Rat,
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Volume I: Biology and Diseases focuses on the use of rats in specific areas of research, ranging from dental research to toxicology. The first part of this book retraces the biomedical history of early events and personalities involved in the

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establishment of rats
as a leading
laboratory animal.

The taxonomy,
genetics and inbred
strains of rats are
also elaborated. The
next chapters
illustrate the
hematology, clinical
biochemistry, and
anatomical and
physiological

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features of the laboratory rat. This text concludes with a description of infectious diseases that may be contracted from laboratory and/or wild rats. This volume is a good source for commercial and institutional

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organizations involved in producing rats for research use, specialists in laboratory animal, animal care and research technicians, as well as students in graduate and professional curricula.

The Development of
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Audition in the
Albino Rat

The Development of
the Principal
Arterial Vessels in
the Rat from 11 to 16
1/2 Days

SOME
BIOCHEMICAL
ASPECTS OF THE

The Development of
the Heart of the Rat

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from Eleven to
Sixteen Days

The Normal Stages in
the Development of
the RatThe

Development of the
Rat Eye in GraftThe
Development of Rat
Embryos in a

Circulating
MediumEffects of
Competition for Food
on the Development
of the Rat's Response

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of Killing White
MiceThe

Development of the
Heart of the Rat from
Eleven to Sixteen

DaysThe

Development of the
Rat

HypothalamusThe
Development of the
Heart in the RatRole

of Serotonin in the
Development of the
Rat's Somatosensory

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Cortex

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Development of the
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The Development of
Rat Peripheral
Nervous Tissue in
Vitro

The Development of
the Neonatal Rat
Brain as Measured by
Thymidine
Incorporation

The Development of

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Rat Embryos in a
Circulating Medium
The Role of
Dopamine in the
Development of the
Rat Prefrontal Cortex
The Development of
the Rat Eye in Graft
Most authors who
have studied the
whole visual system
described the fiber
connections between

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the different nuclear centers (Monakow, 1883, 1889; Probst, 1900; Minkowski, 1913, 1920, 1934; Kosaka and Hiraiwa, 1914; Put nam, 1926; Oshinomi, 1930; Papez and Freeman, 1930; Lashley, 1931, 1934a, 1934b, 1941; Barris and Ingram,

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1933/34; Le Gros
Clark and Penman,
1934; Waller, 1934;
Chang, 1936; Gillilan,
1940; Le Gros Clark,
1942; Krieg, 1946a,
1946b, 1947; Nauta
and Bucher, 1954;
Hayhow et al., 1962;
Lund, 1966; Mon
tero, 1968). The
histogenetic and

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cytogenetic differentiation of the various components of the visual system has been treated in numerous individual studies mostly on the cerebral cortex and the retina and to a lesser degree on the superior colliculus and the lateral

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geniculate body,
however, it has not
yet been investigated
under the aspects of
developmental
interactions of a
functional system on
the basis of
comparing the
development of the
different brain parts
involved with re spect

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to the establishment
of a functionally
interrelated system.

The first concepts of
the histological
differentiation of the
neural tube and parts
of the more advanced
central nervous
system were based on
the classical
neuroblast-spon

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gioblast-theory of His (1889, 1904), Cajal (1911, 1960) and Lorente de No (1922, 1933, 1949). The development of the definitive cerebral cortex with its 6 laminae according to Tilney (1933) was attributed to three successive cell

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migrations which
form the
supragranular,
granular and
infragranular layers.

Ergebnisse der
Anatomie und Entwi
cklungsgeschichte
Development of the
Rat Nucleus of the
Solitary Tract and Its
Visceral Afferents

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Biology and Diseases

The Development of
the Anterior End of
the Notochord of the
Rat

The Development of
the Rat

Hypothalamus

This dissertation,
"Some

Biochemcial
Aspects of the

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Development of
Rat Fetus During
Late Gestation and
Its Relationship
With the Maternal
Thyroid Status" by
Ping-leung,
Patrick, Tam, ???,
was obtained from
The University of
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3/th_b3120488
Subjects: Rats
Maternal-fetal
exchange Thyroid
hormones

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Immuno- And
Enzyme

Histochemical
Approaches

The Development
of the External
Form of the Rat
with Observations
on the Origin of
the

Extraembryonic
Coelom and Foetal
Membranes

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Effects of
Competition for
Food on the
Development of
the Rat's
Response of
Killing White Mice
The Development
of the Albino Rat
The Development
of Behaviour, Play
and Attention in
the Rat

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The study of the development of the spinal cord has a relatively long history. The spinal cord was singled out as a favorable site when cytological techniques were first applied to the study of the embryonic development of

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**the nervous
system. Bidder
and Kupffer
(1857), using the
new procedure of
hardening nerve
tissue with
chromic acid
(Hannover 1844),
made an
investigation of
spinal cord
development in
fetal sheep. They**

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**reported that the
cellular central
mass of the
spinal cord
develops before
its fibrous
envelope,
deducing from
this that the
fibers of the
white matter of
the embryonic
spinal cord were
outgrowths of**

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cells in the gray matter. Bidder and Kupffer also noted that in the spinal ganglia fibers grew out from cells in both directions, peripherally and centrally. Their report was one of the earliest ontogenetic lines of evidence in

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**support of the
later-formulated
neuron doctrine
(Waldeyer 1891).
The spinal cord
re mained a
favorite topic of
morphogenetic
studies of the
nervous system
through out the
last quarter of
the nineteenth
century, with**

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**seminal
contributions
made by His
(1886, 1889), von
Lenhossek
(1889), Retzius
(1898), and
Ramon y Cajal
(1960). Indeed,
the
preoccupation
with the spinal
cord in the early
investigations of**

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neural
Cord Advances

**development had
a lasting, and to
some extent
regrettable,
influence on
ideas about the
ontogeny of the
brain and on the
terminology
adopted by
anatomists.**

**The Development
of the Heart in**

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Development Of
The Rat Spinal
the Rat

**The Development
of Order in the
Rat Trigeminal
System**

**Mus Norvegicus
Albinus**

**A Study of the
Development of
Young Rat
Embryos**

**Transplanted to
Abnormal Sites**

The Development

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Cord Advances
**of the Periovarial
Sac in the White
Rat**