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Auditory System:

Molecular Development

and Characteristics of

the Primary Auditory

Neurons and Their

Network by Alain

Dabdoub and Bernd

Fritzsch; Early

Development of the

Spiral Ganglion by Lisa

V. Goodrich

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The Primary Auditory
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Editors: Dabdoub, A.,
Fritzsche, B., Popper,
A.N., Fay, R.R. (Eds.)

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**The Primary
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Abstract The neurons
of the cochlear
ganglion transmit
acoustic information

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between the inner ear and the brain. These placodally derived neurons must produce a topographically precise pattern of connections in both the inner ear and the brain. In this review, we consider the current state of knowledge concerning the development of these neurons, their peripheral and central connections, and ...

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**Auditory System
Development:
Primary Auditory
Neurons and ...**

These neuroblasts form the primary neurons of the auditory and vestibular path-ways, the cochlear and vestibular ganglia, linking the inner ear and the central nervous system (CNS). Their development and the integrity of their descendants in the mature animal are

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essential for processing
of acoustic and
vestibular information.

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**AUDITORY SYSTEM
DEVELOPMENT**

Primary Auditory

Neurons and ...

The primary cortex is
divided by neurons.

Each of these neurons
are grouped together
according to the

specific sound
frequencies they
respond to. Neuronal
encoding of sound is

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the process by which the neurons distinguish sound. Within the primary auditory cortex, each area responds to different frequencies.

What Is the Primary Auditory Cortex? (with pictures)

The neurons of the primary auditory cortex can be considered to have receptive fields covering a range of auditory frequencies

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and have selective responses to harmonic pitches. Neurons integrating information from the two ears have receptive fields covering a particular region of auditory space.

Auditory system - Wikipedia

The first relay of the primary auditory pathway occurs in the cochlear nuclei in the brain stem, which

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receive Type I spiral ganglion axons (auditory nerve); at this level an important decoding of the basic signal occurs: duration, intensity and frequency. The second major relay in the brain stem is in the superior olivary complex: the majority of the auditory fibres synapse there having ...

Auditory Brain | Cochlea

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With respect to cochlear neurons, swelling of the spiral ganglion dendrites because of intense noise and ischemia had been noted for decades, as was the fact that hair cell loss can lead to anterograde degeneration of primary auditory neurons, with little or no understanding of the underlying mechanisms.

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**Protection of
auditory receptors
and neurons:
Evidence for ...**

The auditory cortex is the most highly organized processing unit of sound in the brain. This cortex area is the neural crux of hearing, and—in humans—language and music. The auditory cortex is divided into three separate parts: the primary,

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secondary, and tertiary

auditory cortex.

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Auditory cortex - Wikipedia

Given the wide range
of surface

functionalizations and

relatively low toxicity

of gold, this approach

is expected to draw

increasing interest in

the field of neural

stimulation. This

Method describes

experimental

procedures that have

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**Stimulation of
Primary Auditory
Neurons Mediated
by Near ...**

The auditory pathway conveys the special sense of hearing..

Information travels from the receptors in the organ of Corti of the inner ear (cochlear

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hair cells) to the central nervous system, carried by the vestibulocochlear nerve (CN VIII).. This pathway ultimately reaches the primary auditory cortex for conscious perception. In addition, unconscious processing of auditory information occurs in ...

**The Auditory
Pathway -
Structures of the Ear
- Auditory ...**

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Primary auditory cortex is the first relay station for auditory information in the cortex. For this reason, it makes sense of information processed in multiple stages in the brainstem and the thalamus. Primary auditory cortex is found on the transverse gyri of Heschl, located on the superior temporal plane within the Sylvian fissure.

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Primary Auditory Cortex - an overview | ScienceDirect Topics

The synchronous activity of groups of neurons is increasingly thought to be important in cortical information processing and transmission. However, most studies of processing in the primary auditory cortex (AI) have viewed neurons as

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independent filters;
little is known about
how coordinated AI
neuronal activity is
expressed throughout
cortical columns and
how it might enhance
the processing ...

**Coordinated
neuronal ensembles
in primary auditory**

...

One Sentence

Summary: Primary
auditory cortex
neurons in awake

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Auditory Neurons
marmosets can encode

the 30 . sequence and
interval of syllables in
natural calls. available
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**Distinct natural
syllable-selective**

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neuronal ensembles
in ...

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Neurons and Cochlear
Function Springer

Heidelberg New York

Auditory Research
Joseph Grenier MD PhD

This is an excellent
monograph in the
auditory series about
spiral ganglion cells
and their loss,
degeneration,
regrowth, and synaptic
to systems physiology.

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**Development:
Primary Auditory ...**

of neurons in the awake primary visual cortex has been extensively studied since the time of Hubel and Wiesel (Hubel and Wiesel, 1962), our understanding of the feature selectivity and functional role of neurons in the primary auditory cortex is much farther from complete. Moving bars have long been recognized as an

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optimal stimulus

**Characterizing
Neurons in the
Primary Auditory
Cortex of ...**

Individuals with
schizophrenia
demonstrate
impairments of sensory
processing within
primary auditory
cortex. We have
previously identified
lower densities of
dendritic spines and
axon boutons, and

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smaller mean
pyramidal neuron
somal volume, in layer
3 of the primary
auditory cortex in
subjects with
schizophrenia, all of
which might reflect
fewer layer 3
pyramidal neurons in
schizophrenia.

**Pyramidal Neuron
Number in Layer 3 of
Primary Auditory ...**

Neurons in the rat
primary auditory cortex

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(A1) generally cannot respond to tone sequences faster than 12 pulses per second (pps). To test whether experience can modify this maximum following rate ...

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