Research Topics

- Information processing and computation in cortical neurons
- Synaptic learning and plasticity rules in dendritic trees
- Design principles for synaptic inhibition in dendrites (New)
- Functional modules in neuronal sensory processing (New Max Planck Center at Hebrew University, with T. Bonhoeffer, A. Borst, B. Sakmann (MPI) and A. Mizrahi, H. Sompolinsky, ELSC)
- Processing of visual and somatosensory information in realistic cortical networks (with K. Martin and B. Sakmann)
- Computer simulations of cortical circuits (with H. Markram)

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Wilfrid Rall was a pioneer in establishing the integrative functions of neuronal dendrites that have provided a foundation for neurobiology in general and computational neuroscience in particular.

### Thesis

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