

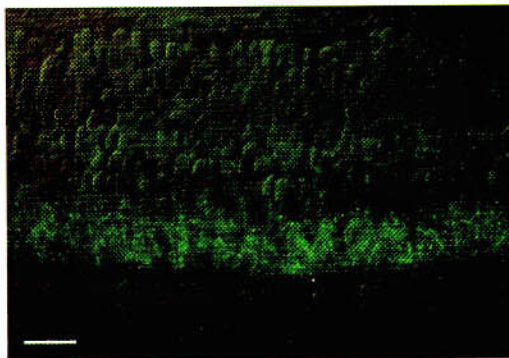
## Functional Circuitry in the Primate Retina



*Dr Ildiko Telkes at the microscope.*



*Patricia R. Jusuf*



*Fluorescence micrograph of a vertical section through primate retina processed with antibodies to the alpha 3 subunit of the glycine receptor. Glycine receptor immunoreactivity is concentrated in the inner plexiform layer. Scale bar = 20  $\mu$ m.*

The amino acid glycine is a major inhibitory neurotransmitter in the central nervous system including the retina. In collaborative projects with Silke Haverkamp and Heinz Wässle at the Max Planck Institute for Brain Research in Germany, we have studied the distribution of glycinergic synapses the retina, using antibodies against different subunits of the glycine receptor. Our recent findings suggest that there are distinct sub-circuits within the retina which are associated with different subunits of the glycine receptor.