Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Biology
- Professor Emeritus, Biology

Publications

PUBLICATIONS

- A reversibly glycosylated polypeptide (RGP1) possibly involved in plant cell wall synthesis: Purification, gene cloning, and trans-Golgi localization. *Proceedings of the National Academy of Sciences of the United States of America*
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- Purification of 1,3-beta-D-glucan synthase activity from pea tissue - 2 polypeptides of 55 kDa and 70 kDa copurify with enzyme-activity. *European Journal of Biochemistry*
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- Molecular-size and separability features of pea cell-wall polysaccharides - implications for models of primary wall structure. *Plant Physiology*
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- Changes in molecular-size of previously deposited and newly synthesized pea cell-wall matrix polysaccharides - effects of auxin and turgor. *Plant Physiology*
  Talbott, L. D., Ray, P. M.
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- Plant polypeptides reversibly glycosylated by UDP-glucose - possible components of Golgi beta-glucan synthase in pea cells. *Journal of Biological Chemistry*
  Dhugga, K. S., Ulvskov, P., Gallagher, S. R., Ray, P. M.
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- Isoelectric-focusing of plant plasma-membrane proteins - further evidence that a 55 kilodalton polypeptide is associated with beta-1,3-glucan synthase activity from pea. *Plant Physiology*
  Dhugga, K. S., Ray, P. M.
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Talbott, L. D., Ray, P. M., Roberts, J. K.  
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• INVOLVEMENT OF MACROMOLECULE BIOSYNTHESIS IN AUXIN AND FUSICOCCIN ENHANCEMENT OF BETA-GLUCAN SYNTHASE ACTIVITY IN PEA. *Plant Physiology*  
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Ray, P. M.  
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• REGULATION OF CYTOPLASMIC AND VACUOLAR PH IN MAIZE ROOT-TIPS UNDER DIFFERENT EXPERIMENTAL CONDITIONS. *Plant Physiology*  
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