

ប្រចាំនាករណ

1. Akazawa, T. 1965. Starch, Inulin, and Other Reserve Polysaccharides, p. 258-293. In J. Bonner and J.E. Varner (ed.), Plant Biochemistry. New York and London: Academic Press, Inc.
2. Bacon, J.S.O. 1955. Methods for Measuring Transglucosylase Activity of Invertases, p. 258-262. In Colowick and Kaplan (ed.), Methods in Enzymology, vol. 1. New York: Academic Press, Inc.
3. Clark, J.M. 1964. Experimental Biochemistry. San Francisco and London: W.H. Freeman and Company.
4. Cooper, R.A. and R.N. Greenshields. 1961. Sucrases in Phaseolus vulgaris, Nature, 191 : 601-602.
5. Dahlqvist, A. 1966. Intestinal disaccharidases, p. 585-587. In Colowick and Kaplan (ed.), Methods in Enzymology, vol. 8. New York : Academic Press, Inc.
6. Devlin, R.M. 1969. Plant Physiology. 2d ed. New York : Van Nostrand Reinhold Company.
7. Dixon, M. and E.C. Webb. 1964. Enzymes. New York : Academic Press, Inc.
8. Dunn, A. and J. Arditti. 1968. Experimental Physiology. New York : Holt, Rinehart and Winston, Inc.

9. Edelman, J. 1956. The Formation of Oligosaccharides by Enzymic Transglucosilation, In F. F. Nord (ed.), Advances in Enzymology, 17:189.
10. Edelman, J. and Hall M.A. 1964. Effect of Growth Hormones on the Development of Invertase Associated with Cell Walls. Nature, 201 : 297.
11. Esau, K. 1965. Plant Anatomy. New York, London, Sydney : John Wiley and Sons, Inc.
12. Glasziou, K.T. 1960. Accumulation and Transformation of Sugars in Sugar - Cane Stalks. Plant Physiology, 35 : 895 - 901
13. Glasziou, K. T. 1961. Accumulation and Transformation of Sugars in Stalks of Sugar Cane. Origin of Glucose and Fructose in the Inner Space. Plant Physiology, 36 : 175 - 179.
14. Glasziou, K.T. 1962. Accumulation and Transformation of Sugar in Sugar Cane Stalks. Mechanism of Inversion of Sucrose in the Inner Space. Nature, 193 : 1100.
15. Glasziou, K.T. and J.C. Waldron. 1964. Regulation of Acid Invertase Levels in Sugar Cane Stalks by Auxin and Metabolite - Mediated Control Systems. Nature, 203 : 541 - 542.
16. Glasziou, K.T. and J.C. Waldron. 1964b. The Regulation of Invertase Synthesis in Sugar Cane. Effects of Sugars, Sugar Derivatives, and Polyhydric Alcohols. Australian Journal of Biological Science, 17 : 608 - 618.

17. Glasziou, K.T., J. C. Waldron and T. A. Bull. 1966.  
Control of Invertase Synthesis in Sugar  
Cane. Loci of Auxin and Glucose Effects.  
Plant Physiology, 41 : 282 - 288.
18. Glick, D. 1962. Methods of Biochemical Analysis.  
X, New York and London : Interscience  
Publishers, Inc.
19. Hatch, M.D., J. A. Sacher, and K.T. Glasziou. 1963.  
Sugar Accumulation Cycle in Sugar Cane.  
I Studies on Enzymes of the Cycle. Plant  
Physiology, 38 : 338 - 343
20. Hatch, M.D. and K.T. Glasziou. 1963b. Sugar  
Accumulation Cycle in Sugar Cane. II  
Relationship of Invertase Activity to Sugar  
Content and Growth Rate in Storage Tissue  
of Plant Grown in Controlled Environments.  
Plant Physiology, 38 : 344 - 348.
21. Hellebust, J.A. and D.F. Forward. 1962. The Invertase  
of the Corn Radicle and Its Activity in  
Successive Stages of Growth. Canadian Journal  
of Botany, 40 : 113 - 126.
22. Hestrin, S., D.S. Feingold, and M. Schramm. 1955.  
Hexoside Hydrolases. In Colowick and Kaplan  
(ed.), Methods in Enzymology, vol. 1. New  
York : Academic Press.
23. The International Rice Research Institute. 1967.  
Annual Report. Philippines : The International  
Rice Research Institute.
24. The International Rice Research Institute. 1968.  
Annual Report. Philippines : The International  
Rice Research Institute.

25. James, W. O. 1953. The Use of Respiratory Inhibitors. In D.L. Arnon and L. Machlis (ed.), Annual Review of Plant Physiology, 4 : 59 - 90.
26. Kaufman, P.B. 1960. Quantitative Studies on Stem Development in Rice (Oryza sativa L.). Indian Journal of Agricultural Science, 30 : 233 - 249.
27. Kaufman, P. B., J. M. Katz, and M.E. Yoder. 1962. Growth Responses of Avena Stem Segments to Various Sugars. Nature, 196 : 1332 - 1333.
28. Kaufman, P. B. 1965. The Effects of Growth Substances on Intercalary Growth and Cellular Differentiation in Developing Internodes of Avena sativa. II. The Effects of Gibberellic Acid. Physiologia Plantarum, 18 : 703 - 724.
29. Kaufman, P. B., N. Ghosheh and H. Ikuma. 1968. Promotion of Growth and Invertase Activity by Gibberellic Acid in Developing Avena Internodes. Plant Physiology, 43 : 29 - 34.
30. Key, J. L. 1964. Ribonucleic Acid and Protein Synthesis as Essential Processes for Cell Elongation. Plant Physiology, 39 : 365 - 370.
31. Kidby, D. K. 1966. Activation of a Plant Invertase by Inorganic Phosphate. Plant Physiology, 41 : 1139 - 1144.
32. Kivilaan, A., T. C. Beaman, and R. S. Bandurski. 1961. Enzymatic Activities Associated with Cell Wall Preparations from Corn Coleoptiles. Plant Physiology 36 : 605 - 610.

33. Layne, E. Spectrophotometric and Turbimetric Methods for Measuring Proteins. In Colowick and Kaplan (ed.), Methods in Enzymology, vol. 3. New York : Academic Press, Inc.
34. Lehninger, A. L. 1970. Biochemistry. New York : Worth Publishers, Inc.
35. Leopold, A. C. 1964. Plant Growth and Development. New York : McGraw - Hill Book Company.
36. Long, C., E. J. King and W. M. Sperry. 1961. Biochemists' Handbook. London : E and F. N. Spon.
37. Lowry, O. H., N. J. Rosebrough, A. L. Farr, and R. J. Randall. 1951. Protein Measurement with the Folin Phenol Reagent. Journal of Biological Chemistry, 193:265-275.
38. Metcalfe, C. R. 1960. Anatomy of the Monocotyledons. I Graminae. Oxford at the Clarendon Press.
39. Morphology of the Rice Plant. 1970. Rice Production Manual. The International Rice Research Institute.
40. Myrbäck, K. 1960. Invertases. In Boyer, Lardy and Myrbäck (ed.), The Enzymes, vol. 4. New York : Academic Press, Inc.
41. Myrbäck, K. and W. Schilling. 1965. Studies on Yeast  $\beta$  Fructofuranosidase part XVI. Partial Purification. Enzymologia, 29 : 306 - 314.



42. Nelson, N. 1944. A Photometric Adaptation of the Somogyi Method for the Determination of Glucose. Journal of Biological Chemistry, 153 : 375 : 380.
43. Neuberg, C. and I. S. Roberts. 1946. Invertase. Scientific Report Series, No. 4. New York: Sugar Research Foundation.
44. Newcomb, E. H. 1963. Cytoplasm - Cell Wall Relationship. In L. Machlis and W. R. Briggs (ed.), Annual Review of Plant Physiology, 14 : 43-64.
45. Pigman, W. 1957. The Carbohydrates. New York : Academic Press, Inc.
46. Ruchti, J. and A. D. Mc Laren. 1964. Enzyme Reactions in Structurally Restricted System V. Further Observation on the Kinetics of Yeast  $\beta$  - Fructofuranosidase (Invertase) Activity in Viscous Media. Enzymologia, 27 : 185 - 198.
47. Sacher, J. A., M. D. Hatch and K. T. Glasziou, 1963. Sugar Accumulation Cycle in Sugar Cane. III. Physical and Metabolic Aspects of the Cycle in Immature Storage Tissue. Plant Physiology, 38 : 348 - 354.
48. Segal, H. L. 1959. The Development of Enzyme Kinetics. In P.D. Boyer, H. Lardy and K. Myrbäck (ed.) The Enzymes, vol. 1. New York : Academic Press, Inc.

49. Slack, C. R. 1965. The Physiology of Sugar Cane.  
VIII Diurnal Fluctuations in the  
Activity of Soluble Invertase in  
Elongation Internodes. Australian  
Journal of Biological Science, 18 :  
781 - 788.
50. Smith, I. 1960. Chromatographic and Electrophoretic  
Techniques, vol. 1. New York : Inter-  
science Publishers, Inc.
51. Somogyi, M. 1952. Notes on Sugar Determination.  
Journal of Biological Chemistry,  
195 : 19 - 23.
52. Straus, J. 1962. Invertase in Cell Walls of Plant  
Tissue Cultures. Plant Physiology,  
37 : 342 - 348.
53. Sumner, J. B. and Myrback, K. 1950. The Enzymes,  
vol. 1. Part 1. New York : Academic  
Press.
54. Tanaka, A., S. A. Navasero, C. V. Garcia, F. T.  
Parao and E. Ramirez. 1964. Growth  
Habit of the Rice Plant in the Tropics  
and Its Effect on Nitrogen Response.  
The International Rice Research Institute.  
Philippines : Los Banos, Laguna.

55. Tanaka, A., K. Kawano and J. Yamaguchi. 1966.  
Photosynthesis, Respiration and Plant  
Type of the Tropical Rice Plant.  
The International Rice Research Institute.  
Philippines : Los Baños. Laguna.
56. Tauber, H. 1946. Enzyme Technology. London : John Wiley and Sons, Inc.
57. Tauber, H. 1950. The Chemistry and Technology of Enzymes. New York : John Wiley and Sons, Inc.
58. Varner, J. E. 1965. Enzymology. In. J. Bonner and J. E. Varner (ed.), Plant Biochemistry. New York : Academic Press, Inc.
59. Vidal, A. J. and B. O. Juliano 1967. Comparative Composition of Waxy and Nonwaxy Rice.  
Cereal Chemistry.
60. Ward, G. M. 1953. Physiological and Biochemical Studies in Plant Metabolism. VII  
Invertase of the Seedling Wheat Leaf.  
Canadian Journal of Botany, 31 :  
81 - 89.
61. Yoshida, S. 1970. Physiological Basis for High Yield of Improved Varieties in the Tropics. The International Rice Research Institute. Philippines:  
Los Baños, Laguna.

62. Zimmermann, M. H. 1961. Movement of Organic Substances in Trees. Science, 133 : 73 - 79.
63. Zimmermann, M. H. 1963. How Sap Moves in Trees. Scientific American. San Francisco: W. H. Freeman and Company.
64. กองบารุงพันธุ์ กรมการข้าว กระทรวงเกษตร ผลงานทดลองของกองบารุงพันธุ์ ประจำปี พ.ศ. 2511
65. ไพบูลย์ ตราษ "ความก้าวหน้าในการค้นคว้าข้าวพันธุ์ใหม่" กลิ่ง, 3 ( พฤษภาคม, 2513 ), 213-215
66. อักษร เสกชีระ 2504 "การเริ่มเกิดดอกข้าว (Floral Initiation of Oryza sativa)" วิทยานิพนธ์ปริญญาบัณฑิต คณะกสิกรรมและสัตวบาล มหาวิทยาลัยเกษตรศาสตร์

ประวัติการศึกษา

นางสาว นันทนา ปัทમพงษ์ สำเร็จการศึกษาชั้นปริญญาบัณฑิตทางวิทยาศาสตร์ แผนกวิชาพุกน้ำศาสตร์ เกียรตินิยมอันดับ 2 จากจุฬาลงกรณ์มหาวิทยาลัย ในปีการศึกษา 2512 โดยได้รับอนุปริญญาชั้นปริญญามหาบัณฑิตทางวิทยาศาสตร์ แผนกวิชาพุกน้ำศาสตร์ โดยได้รับอนุคุณการวิจัย จากบัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย ประจำเดือน มิถุนายน 2513 ถึงเดือนพฤษภาคม 2515

