เอกสารอ้างอิง

- กาวร วัชราภัย. ๒๕๑๐. การขยายพันธุ์กล้วยไม้วิธีใหม่. <u>วิทยาศาสตร์</u>, ๒๑(กันยายน, ๒๕๑๐), ๘๔๑ ๘๔๗.
- Ball, E. 1950. Differentiation in a Callus Tissue of <u>Sequoia</u>
 <u>sempervirens</u>. <u>Growth</u>, 14:295 325.
- Bhojwani, S.S., and S.M. Johri. 1971. Morphogenetic Studies on Cultured Mature Endosperm of Croton bonplandianum. New Phytologia, 70:761-766.
- Caplin, S., and F. Steward. 1948. Effect of Coconut Milk on the Growth of Explants from Carrot Root. Science, 108:655-657.
- Chinoy, J.J., R.Grover, and K.K. Nanda. 1957. Sucrose as Precursor of Regulatory Substances in <u>Avena</u> Coleoptile, p.1214. <u>In</u> P. Maheshwari (ed.), <u>Modern Developments in Plant</u>
 Physiology. Delhi: National Printing Works.
- Curtis, J.T., and M.A. Nichol. 1948. Culture of Proliferating Orchid Embryo in vitro. Bulletin of the Torrey Botanical Club, 75 (4):358-373.
- Das, N.K., K. Patau, and F. Skoog. 1956. Initiation of Mitosis and Cell Division by Kinetin and Indoleacetic Acid in Excised Tobaco Pith Tissue. Physiologia Plantarum, 9:640-651.

- Ernst, R. 1967. Effect of Carbohydrate Selection on the Growth Rate of Freshly Germinated Phalaenopsis and Dendrobium Seed. American Orchid Society Bulletin, 36:1068-1073.
- Ernst, R., J. Arditti, and P.L. Healey. 1970. The Nutrition of Orchid Seedlings. American Orchid Society Bulletin, 39:599-605, 691-700.
- Esau, K. 1965. Plant Anatomy. New York : John Wiley and Sons.
- Fox, J.E. 1969. The Cytokinins, p.85-123. <u>In</u> M.B. Wilkins (ed.), <u>Physiology of Plant Growth and Development</u>. London: Mc

 Graw-Hill.
- Intuwong, Oradee. 1972. Meristem Culture of Miniature Monapodial Orchids. Unpublished Master's Thesis, Graduate Division, University of Hawaii.
- Johri, B.M. 1971. Embryogenesis in Tissue Cultures. Colloques Internationaux Du Centre National De La Recherche Scientifique, 193:269-280.
- Key, J.L., and J.C. Shannon. 1964. Enhancement by Auxin of Ribonucleic Acid Synthesis in Excised Soybean Hypocotyl Tissue.

 Plant Physiology, 39 (3):360-364.
- Kim, K.K., J.T. Kunisaki, and Y. Sagawa. 1970. Shoot-Tip Culture of <u>Dendrobium</u>. <u>American Orchid Society Bulletin</u>, 39 (12):1077-1080.

- Knudson, L. 1922. Nonsymbiotic Germination of Orchid Seeds. The

 Botanical Gazette, 37 (1):1-25.
- Knudson, L. 1950. Germination of Seeds of Vanilla. American Journal of Botany, 37:241-247.
- Kotomori, S., and T. Murashige. 1965. Some Aspects of Aseptic Propagation of Orchids. American Orchid Society Bulletin, 34:484-489.
- Leopold, A.C. 1964. Plant Growth and Development. New York: Mc Graw-Hill Book Company.
- Lester, H.M., and J.S. Carroll, 1957. Photo-Lab-Index, 17th ed.

 New York: Morgan and Morgan, Inc., 14-01-14-178.
- Maheshwari, P. 1963. The History and Present Status of Tissue Culture, p.xxiii-xxx. In P. Maheshwari and N.S. Rangaswamy (ed.), Plant Tissue and Organ Culture a Symposium. Ranchi: Catholic Press.
- Mehta, A.R., and V.P. Fadia. 1967. Experimental Induction of Vascular Differentiation in Plant Callus Tissue, p.51-53. In

 B.M. Johri (ed.), Seminar on Plant Cell, Tissue

 and Organ Cultures. Delhi: UGC Centre of Advanced Study in

 Botany, Plant Morphology and Embryology, University of India.
- Miller, C.O., F.Skoog, F.S. Okumura, M.H. Von Saltza, and F.M.Strong.

 1955. Structure and Synthesis of Kinetin. Journal of the

 American Chemical Society, 77:2662.

- Mitra, G.C. 1967. Some Aspects of Differentiation in Regeneration of Plants from Tissues in Aseptic Culture, p.58-60. <u>In B.M. Johri (ed.)</u>, <u>Seminar on Plant Cell</u>, <u>Tissue and Organ Cultures</u>. Delhi: UGC Centre of Advanced Study in Botany, Plant Morphology and Embryology, University of India.
- Morel, G.M. 1960. Producing Virus-Free Cymbidium. American Orchid Society Bulletin, 29: 495-497.
- Morel, G.M. 1964. Tissue Culture—— A New Means of Clonal Propagation of Orchid. **Nerican Orchid Society Bulletin, 33: 473-478.
- Morel, G.M. 1965. Clonal Propagation of Orchids by Meristem Culture. Cymbidium Society News, 20:3-11.
- Nag, K.K., and B.M. Johri. 1971. Morphogenic Studies on Endosperm of Some Parasitic Angiosperms. Phytomorphology, 21: 202-218.
- Nitsch, J.P. 1963. Naturally-Occuring Growth Substances in Relation to Plant Tissue Culture, p. 144-157. <u>In</u> P. Maheshwari and N.S. Rangaswamy (ed.), <u>Plant Tissue and Organ Culture- a Symposium</u>, Ranchi: Catholic Press.
- Osborn, D.J. 1962. Effect of Kinetin on Protein and Nucleic Acid

 Metabolism in Xanthium Leaves During Senescence. Plant

 Physiology, 37:595-602.

- Overbeek, J.van, M. Conklin, and A. Blakeslee. 1941. Factors in Coconut Milk Essential for Growth and Development of <u>Datu-ra Embryos</u>. <u>Science</u>, 94:350-351.
- Puhan, Z., and S.M. Martin. 1971. The Industrial Potential of
 Plant Cell Culture. Progress in Industrial Microbiology,
 9:13-39.
- Ranganathan, B., A.F. Mascarenhas, B.M. Sayagaver, and V. Jagannathan. 1963. Growth of Papaver somniferum Tissue in vitro, p. 108-110. In P. Maheshwari and N.S. Rangaswamy (ed.), Plant Tissue and Organ Culture a Symposium. Ranchi: Catholic Press.
- Rao, A.N. 1963. Organogenesis in Callus Cultures of Orchid Seeds,

 p.332-343. In P. Maheshwari and N.S. Rangaswamy (ed.),

 Plant Tissue and Organ Culture a Symposium. Ranchi: Catholic Press.
- Rao, A.N. 1964. <u>In vitro</u> Culture of Certain Orchid Seeds and their Seedling Formation (MORPH). 10th International Botanical Congress, Edinburgh, p.454.
- Rao, A.N. 1967. Histogenesis and Organogenesis in Orchid Seedlings,
 p.71-74. In B.M. Johri (ed.), Seminar on Plant Cell,
 Tissue and Organ Cultures. Delhi: UGC Centre of Advanced
 Study in Botany, Plant Morphology and Embryology, University of India.
- Richards, O.N. 1954. Photography in Scientific Research. <u>Journal</u> of the Biological Photographic Association, 22(2):52-58.

- Sagawa, Y., T. Shoji, and T. Shoji. 1966. Clonal Propagation of

 Cymbidium Through Shoot Meristem Culture. American Orchid

 Society Bulletin, 35:118-122.
- Sagawa, Y., T. Shoji, and T. Shoji. 1967. Clonal Propagation of

 <u>Dendrobium</u> Through Shoot Meristem Culture. <u>American</u>

 <u>Orchid Society Bulletin</u>, 36:856-859.
- Sastri, R.L.N. 1963. Morphogenesis in Plant Tissue Cultures, p. 105-107. In P. Maheshwari and N.S. Rangaswamy (ed.),

 Plant Tissue and Organ Culture a Symposium. Ranchi:
 Catholic Press.
- Skoog, F., and C.O. Miller. 1957. Chemical Regulation of Growth and Organ Formation in Plant Tissue Cultured in vitro.

 The Society for Experimental Biology Symposia, 11:118-131.
- Steward, F.C. 1963a. Carrots and Coconuts: Some Investigations on Growth, p. 178-197. In P. Maheshwari and N.S. Rangaswamy (ed.), Plant Tissue and Organ Culture a Symposium.

 Ranchi: Catholic Press.
- Steward, F.C. 1963b. The Control of Growth in Plant Cells.

 Scientific American, 209 (4): 104-113.
- Steward, F.C., and S.M. Caplin. 1951. A Tissue Culture from
 Potato Tuber: the Synergistic Action of 2,4-D and Coconut Milk. Science, 113:518-520.

- Steward, F.C., M.O. Mapes, and K. Mears. 1958. Growth and Organized Development of Cultured Cells. American Journal of Botany, 45: 705-708.
- Steward, F.C., and ElM. Shantz. 1959. The Chemical Regulation of Growth: Some Substanced and Extracts Which Induce Growth and Morphogenesis. Annual Review of Plant Physiology, 10:379-404.
- Steward, F.C., and M.O. Mapes. 1971. Morphogenesis in Aseptic

 Cell Culture of Cymbidium. The Botanical Gazette, 132

 (1): 65-70.
- Sunderland, N., and F.M. Wicks. 1971. Embryoid Formation in

 Pollen Grains of Nicotiana tabacum. Journal of Experimental Botany, 22(70):213-226.
- Torrey, J.G. 1969. <u>Development in Flowering Plants</u>. London:

 The Macmillan Company Collier Macmillan Limited.
- Torrey, J.G., and J. Reinert. 1961. Suspension Cultures of Higher Plant Cells in Synthetic Media. Plant Physiology, 36: 483-491.
- White, P.R. 1934. Potentially Unlimitted Growth of Excised

 Tomato Root Tips in a Liquid Medium. Plant Physiology,
 9:585-600.
- White, P.R. 1954. The Cultivation of Animal and Plant Cells.

 New York: The Ronald Press Company.

- Wimber, D.E. 1963. Clonal Propagation of Cymbidium Through

 Tissue Culture of the Shoot Meristem. American Orchid

 Society Bulletin, 32:105-107.
- Withner, C.L. (ed.) 1959. The Orchids. A Scientific Survey.

 New York: The Ronald Press Company.
- Weston, R. McV. 1957. Time-Lapse Photography, p. 1180 1184.

 In F. Purves (ed.), The Focal Encyclopedia of Photography.

 London: Focal Press Limited.

ภาคผนวก

สูทรวุ้นอาหารของรองศาสทราจารย์ คร.ถาวร วัชราภัย ซึ่งคัดแปลงมาจากสูทรKnudson B

Ca(NO ₃) ₂ .4 H ₂ O	1000.00	mg.
KH ₂ PO ₄	250.00	mg.
MgSO4.7H2O	250.00	mg.
(NH ₄) ₂ SO ₄	500.00	mg.
Fe*[77n NaFe-EDTA]	5.00	mg.
ZnSO ₄ .7H ₂ O	0.10	mg.
MnCl ₂ .4H ₂ O	2.00	mg.
H ₃ BO ₃	1.00	mg.
CuCl ₂ .2H ₂ O	0.01	mg.
Na2MoO4.2H2O	0.02	mg.
CoCl ₂ .6H ₂ O	0.02	mg.
2,4-D	0.10	mg.
Sucrose	20 X 10 ³	mg.
Agar	8000.00	mg.
Glass-distilled water	1000 ml.	1
pH value 5.2 ± 0.3		10

^{*}วิธีเตรียม NaFe-EDTA ละลาย Na₂EDTA 22.4 gm.ในน้ำ 186 ml. และละลาย Feso₄.7H₂O 13.7 gmในน้ำ 364 ml แล้วผสมสารละลายทั้งสองเข้าค้วยกัน ในสารละลายนี้จะมี Fe 5 mg/ml.

ประวัติการศึกษา

นายวีระวุฒี มหามนตรี สำเร็จการศึกษาขั้นปริญญาบัณฑิตทางวิทยาศาสตร์ สาชาวิชาพฤกษศาสตร์ เกียรตินิยมอันดับ 2 จากจุฬาลงกรณมหาวิทยาลัย ในปี พ.ศ. 2504 ได้รับประกาศนียบัตรชั้นสูงสาขาวิชาพฤกษศาสตร์ เมื่อปี พ.ศ. 2510 บัจจุบัน เป็นอาจารย์ในแผนกวิชาพฤกษศาสตร์ คณะวิทยาศาสตร์ จุฬาลงกรณมหาวิทยาลัย.