

## เอกสารอ้างอิง

- กัลยา วานิชย์บัญชา. 2541. *หลักสถิติ*, 420 หน้า. กรุงเทพฯ : จุฬาลงกรณ์มหาวิทยาลัย.
- กลุ่มพืชน้ำมัน กองส่งเสริมพืชไร่ฯ กรมส่งเสริมการเกษตร. 2542. อนาคตการส่งเสริมการปลูกทานตะวันของประเทศไทย ณ ห้องประชุมโรงแรมมารวยการ์เดนส์ กรุงเทพมหานคร 26 สิงหาคม 2542.
- จุฬารัตน์ ม่วงดิษฐ์. 2544. *รูปแบบกระแสไฟฟ้าไอออนรอบๆ รากทานตะวัน*. วิทยานิพนธ์วิทยาศาสตร์มหาบัณฑิต มหาวิทยาลัยสงขลานครินทร์.
- แม่น อมรสิทธิ์และอมร เพชรสม. 2539. *หลักการและเทคนิคการวิเคราะห์เชิงเครื่องมือ*, 886 หน้า. กรุงเทพฯ : ชวนพิมพ์.
- ไมตรี สุจริตต์. 2534. *สารพิษรอบตัวเรา*, 356 หน้า. เชียงใหม่ : ดาวคอมพิวกราฟิค.
- อภิญา วงศ์กิตติการ. 2531. *สถิติสำหรับชีววิทยา*, 356 หน้า. มหาวิทยาลัยสงขลานครินทร์ คณะวิทยาศาสตร์ ภาควิชาคณิตศาสตร์.
- Arduini, I., Kettner, C., Godbold, D.L., Onnis, A. and Stefani, A. 1998. pH Influence on Root Growth and Nutrient Uptake of *Pinus pinaster* Seedlings. *Chemosphere* 36 : 733-738.
- Arnett, R.H. and Bazinet, G.F. 1977. *Plant Biology : a concise introduction* (4<sup>th</sup> ed.), 553 pp. USA : The C.V. Mosby Company.
- Beemter, G.T.S. and Baskin, T.I. 1998. Analysis of Cell Division and Elongation Underlying the Developmental Acceleration of Root Growth in *Arabidopsis thaliana*. *Plant Physiology* 116 : 1515-1526.
- Bushmann, P., Sack, H., Köhler, A.E. and Dahse, I. 1996. Modeling Plasmalemma Ion Transport of the Aquatic Plant *Egeria densa*. *The Journal of Membrane Biology* 154 : 109-118.
- Carbonell-Barrachina, A.A., Burló, F., Burgos-Hernández, A., López, E. and Mataix, J. 1997. The influence of arsenite concentration on arsenic accumulation in tomato and bean plants. *Scientia Horticulturae* 71 : 167-176.

- Carbonell, A.A., Aarabi, M.A., DeLaune, R.D., Gambrell, R.P. and Patrick Jr, W.H. 1998. Arsenic in wetland vegetation: Availability, phytotoxicity, uptake and effects on plant growth and nutrition. *The Science of the Total Environment* 217 : 187-199.
- Chakravarty, B. and Srivastava, S. 1997. Effect of cadmium and zinc interaction on metal uptake and regeneration of tolerant plants in linseed. *Agriculture, Ecosystems and Environment* 61 : 45-50.
- Das, P., Samantaray, S. and Rout, G.R. 1997. Studies on Cadmium Toxicity in Plants: A Review. *Environmental Pollution* 98 : 29-36.
- Durieux, R.P., Jackson, W.A., Kamprath, E.J. and Moll, R.H. 1993. Inhibition of nitrate uptake by aluminium in maize. *Plant and Soil* 151: 97-104.
- Hart, J.J., Welch, R.M., Norvell, W.A., Sullivan, L.A. and Kochian, L.V. 1998. Characterization of Cadmium Binding, Uptake, and Translocation in Intact Seedlings of Bread and Durum Wheat Cultivars. *Plant Physiology* 116 : 1413-1420.
- Hush, J.M. and Overall, R.L. 1989. Steady Ionic Currents Around Pea (*Pisum sativum* L.) Root Tips: the Effects of Tissue Wounding. *Biological Bulletin* 176(s) : 56-64.
- Iwabuchi, A., Yano, M. and Shimizu, H. 1989. Development of extracellular electric Pattern around *Ledidium* roots : its possible role in root growth and gravitropism. *Protoplasma* 148 : 94-100.
- Jaffe, L.F. 1985. Extracellular current measurements with a vibrating probe. *Neuroscience* 8(12) : 517-521.
- Jaffe, L.F. and Nuccitelli, R. 1974. An ultrasensitive vibrating probe for measuring steady extracellular currents. *The Journal of Cell Biology* 63 : 614-628.
- Jaffe, L.F. and Nuccitelli, R. 1977. Electrical controls of Development. *Annual review of Biophysics and Bioengineering* 6 : 445-476.
- Jian-wei Pan, Mu-yuan Zhu and Hong Chen. 2001. Aluminum-induced cell death in root-tip cells of barley. *Environmental and Experimental Botany* 46 : 71-79.

- Kiegle, E., Gilliham, M., Haseloff, J. and Tester, M. 2000. Hyperpolarisation-activated calcium currents found only on cells from the elongation zone of *Arabidopsis thaliana* roots. *The Plant Journal* 21(2) : 225-229.
- Kinraide, T.B. 1991. Identity of the rhizotoxic aluminium species. *Plant and Soil* 134 : 167-178.
- Kline, D., Robinson, K.R. and Nuccitelli, R. 1983. Ion Currents and Membrane Domains in the Cleaving *Xenopus* Egg. *The Journal of Cell Biology* 97 : 1753-1761.
- Kun Liu and Sheng Luan. 2001. Internal Aluminium Block of Inward  $K^+$  Channels. *The Plant Cell* 13 : 1453-1465.
- Meyer, A.J. and Weisenseel, M.H. 1997. Wound-Induced Changes of Membrane Voltage, Endogenous Currents, and Ion Fluxes in Primary Roots of Maize. *Plant Physiology* 114 : 989-998.
- Miller, A.L. 1989. Ion Currents and Growth Regulators in Plant Root Development. *Biological Bulletin* 176(s) : 65-70.
- Miller, A.L., Raven, J.A., Sprent, J.I. and Weisenseel, M.H. 1986. Endogenous ion currents traverse growing roots and root hairs of *Trifolium repens*. *Plant, Cell and Environment* 9 : 79-83.
- Moore, R., Clark, W.D., Stern, K.R. and Vodopich, D. 2000. *Botany*, 824 pp. 1a : Wm. C. Brown Communications, Inc.
- Ngu, M., Moya, E. and Magan, N. 1998. Tolerance and uptake of cadmium, arsenic and lead by *Fusarium* pathogens of cereals. *International Biodeterioration & Biodegradation* 42 : 55-62.
- Nichol, B.E., Oliveira, L.A., Glass, A.D.M. and Siddiqi, M.Y. 1993. The Effects of Aluminium on the Influx of Calcium, Potassium, Ammonium, Nitrate, and Phosphate in an Aluminium-Sensitive Cultivar of Barley (*Hordeum vulgare* L.). *Plant Physiology* 101 : 1263-1266.
- Nocito, F.F., Pirovano, L., Cocucci, M. and Sacchi, G.A. 2002. Cadmium-Induced Sulfate Uptake in Maize Roots. *Plant Physiology* 129 : 1872-1879.

- Nuccitelli, R. 1983. Transcellular ion currents: signals and effectors of cellpolarity. *Modern Cell Biology 2* : 451-481.
- Overall, R. and Jaffe, L.F. 1985. Patterns of Ionic Current through *Drosophila* Follicles and Eggs. *Developmental Biology* 108 : 102-119.
- Päivöke, A.E.A. and Simola, L.K. 2001. Arsenate Toxicity to *Pisum sativum*: Mineral Nutrients, Chlorophyll Content, and Phytase Activity. *Ecotoxicology and Environmental Safety* 49 : 111-121.
- Rathore, K.S. and Robinson, K.R. 1989. Ionic Currents Around Developing Embryos of Higher Plants in Culture. *Biological Bulletin* 176(s) : 46-48.
- Reid, R.J., Tester, M.A. and Smith, F.A. 1995. Calcium/aluminium interactions in the cell wall and plasma membrane of *Chara*. *Planta* 195 : 362-368.
- Rout, G.R. Samantaray, S. and Das, P. 2001. Aluminium toxicity in plants: a review. *Agronomic* 21 : 3-21.
- Ryan, P.R., Shaff, J.E. and Kochia, L.V. 1992. Aluminium Toxicity in Roots. *Plant Physiology* 99 : 1193-1200.
- Ryan, P.R., Skerrett, M., Findlay, G.P., Delhaize, E. and Tyerman, S.D. 1997. Aluminum activates an anion channel in the apical cells of wheat roots. *Proceeding National Academic Science USA* 94 : 6547-6552.
- Silva, I.R., Smyth, T.J., Moxley, D.F., Carter, T.E., Allen, N.S. and Ruffy, T.W. 2000. Aluminium Accumulation at Nuclei of Cells in the Root Tip. Fluorescence Detection Using Lumogallion and Confocal Laser Scanning Microscopy. *Plant Physiology* 123 : 543-552.
- Sperelakis, N. 2001. *Cell Physiology Sourcebook A Molecular Approach* (3<sup>rd</sup> ed.), 1235 pp. USA : Academic Press.
- Sun, Y. and Wyman, R.J. 1989. The *Drosophila* Egg Chamber: External Ionic Currents and the Hypothesis of Electrophoretic Transport. *Biological Bulletin* 176(s) : 79-85.

- Takano, M. and Shimmen, T. 1999. Effects of Aluminium on Plasma Membrane as Revealed by Analysis of Alkaline Band Formation in Internodal Cells of *Chara corallina*. *Cell Structure and Function* 24 : 131-137.
- Thavarungul, P. 1997. Vibrating probe measurement of ionic currents around developing embryo of oil palm (*Elaeis guineensis* Jacq.). *Journal of Experimental Botany* 48(314) : 1647-1653.
- Vassilev, A., Tsonev, T. and Yordanov, I. 1998. Physiological response of barley plants (*Hordeum vulgare*) to cadmium contamination in soil during ontogenesis. *Environmental Pollution* 103 : 287-293.
- Weisenseel, M.H., Dorn, A. and Jaffe, L.F. 1979. Natural  $H^+$  Currents Traverse Growing Roots and Root Hairs of Barley (*Hordeum vulgare* L.). *Plant Physiology* 64 : 512-518.
- Zhang, Y. and Yang, X. 1994. The toxic effects of cadmium on cell division and Chromosomal morphology of *Hordeum vulgare*. *Mutation Research* 312 : 121-126.