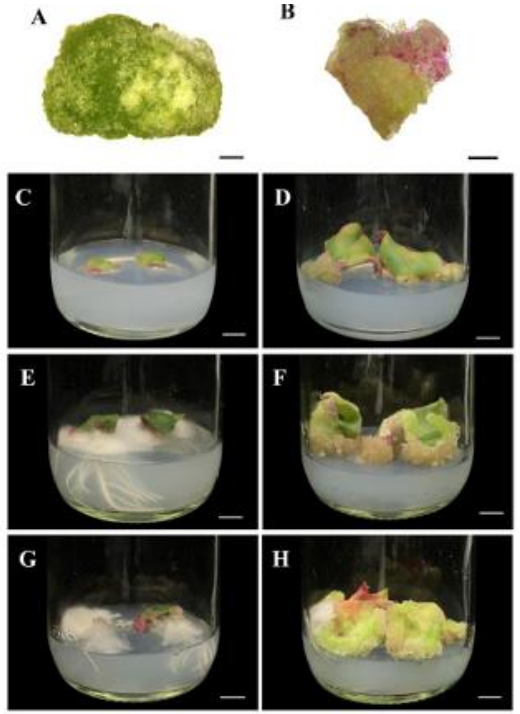
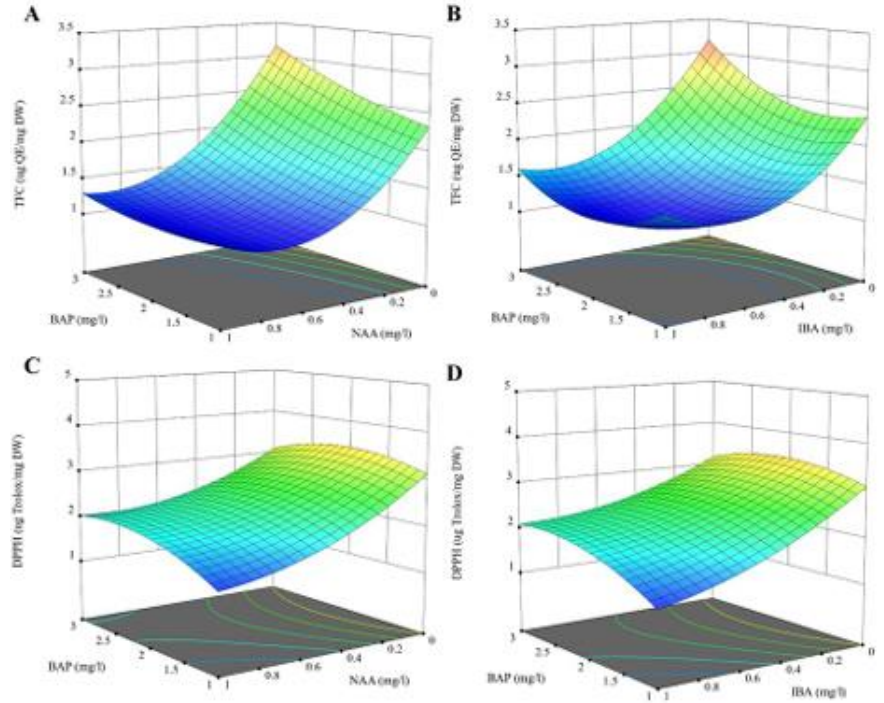




Optimization of Phytochemical Content and DPPH Scavenging Activity from Pokeweed (*Phytolacca americana* L) Callus using Response Surface Models

โดย Prathan Luecha, **Attachai Trunjaruen**, Saksit Suraporn, Wipa Yaowachai, Pitakpong Maneerattanarungroj, Narisa Kunpratum, Worasitikulya Taratima

Keywords: Antioxidants, Micropropagation, Phytochemicals, Response surface methodology

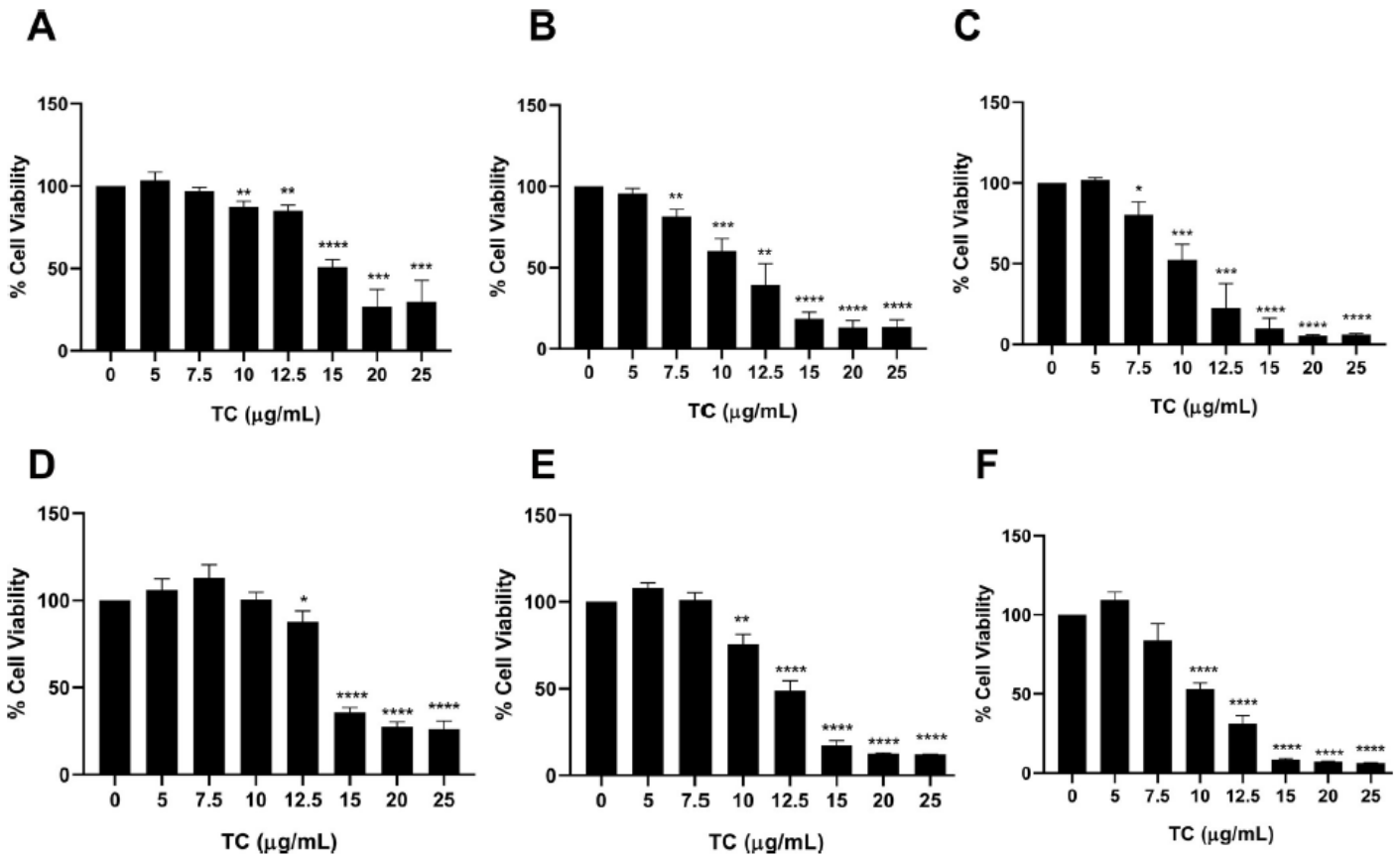
Link: https://doi.org/10.47278/journal.ijab/2024.130

Development of Herbal Ultrasound Gel Prototype from *Zingiber cassumunar* Roxb., *Curcuma longa* L. and *Zingiber officinale* Roscoe for Antioxidant and Anti-Inflammation

โดย Paphaphat Thiraphatthanavong, Warin Ohn-on, **Sasalux Kaewbutra**, Kanchanaporn Tongthong, Petcharat Rattanachompu, Namplon Panmuesng, Bhattaranitch Khampaenjiraroch, and Krissada Phandech*

Keywords: Ultrasound gel, Herb, Antioxidant, Anti-inflammation

Link: https://doi.org/10.12982/NLSC.2025.011

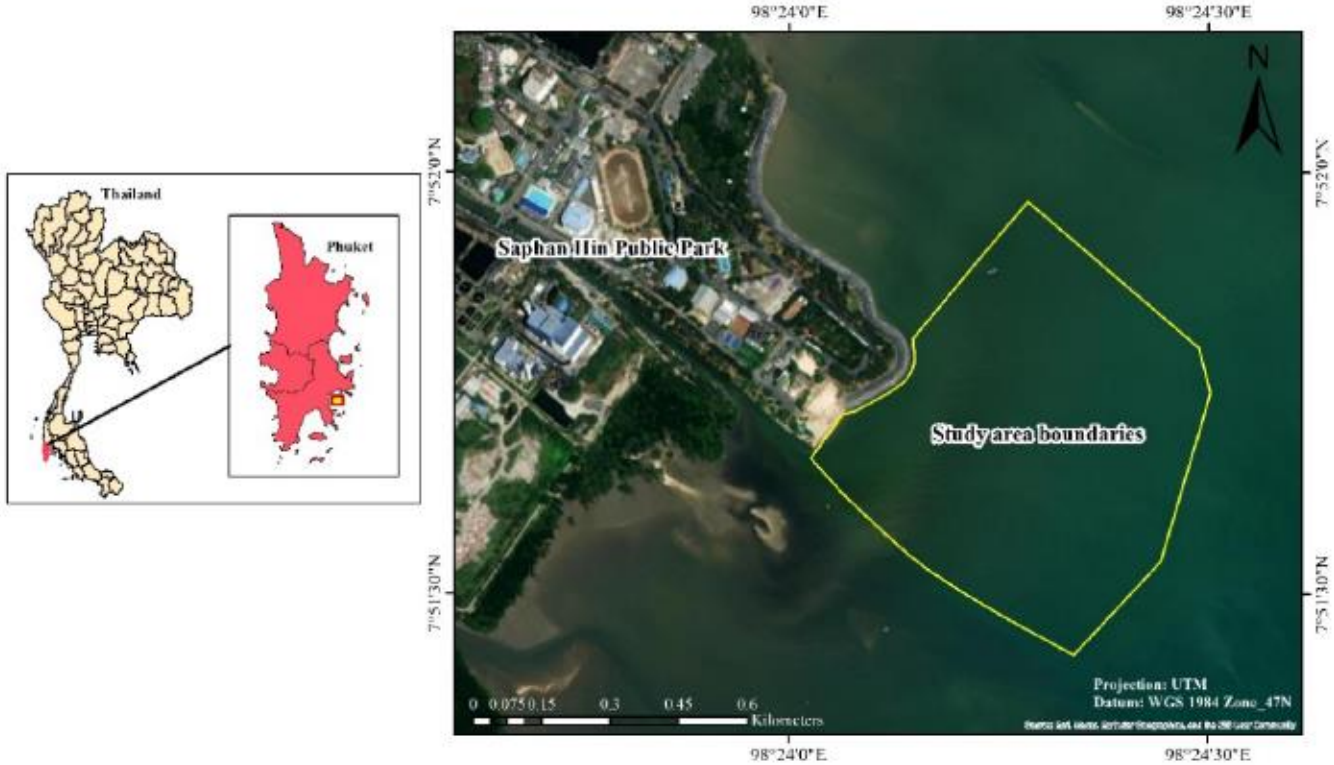


Antioxidative and anticancer effects of *Tacca chantrieri* extract enhancing cisplatin sensitivity in cholangiocarcinoma cells

โดย ดร.นภัส อามาตย์มุลตรี และคณะผู้วิจัย

Keywords: Apoptosis; Cancer treatment; antioxidants

Link: https://doi.org/10.1371/journal.pone.0317111

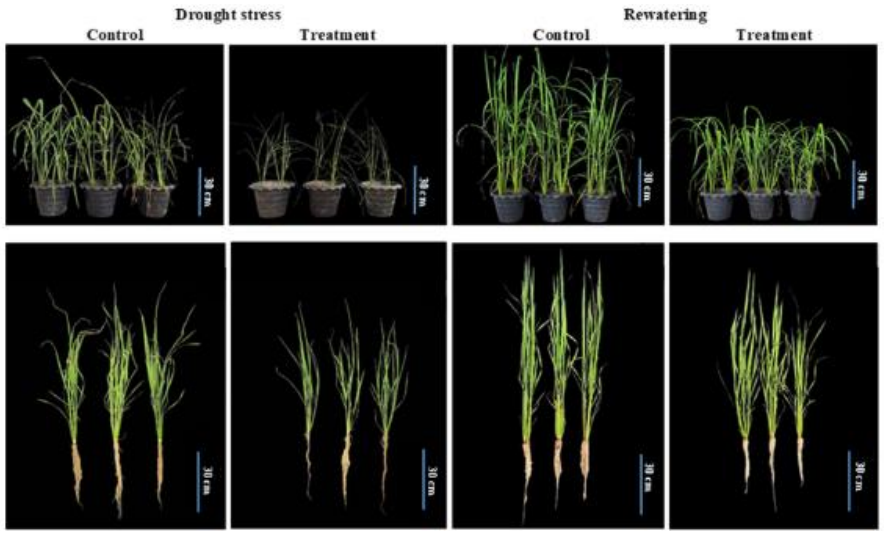


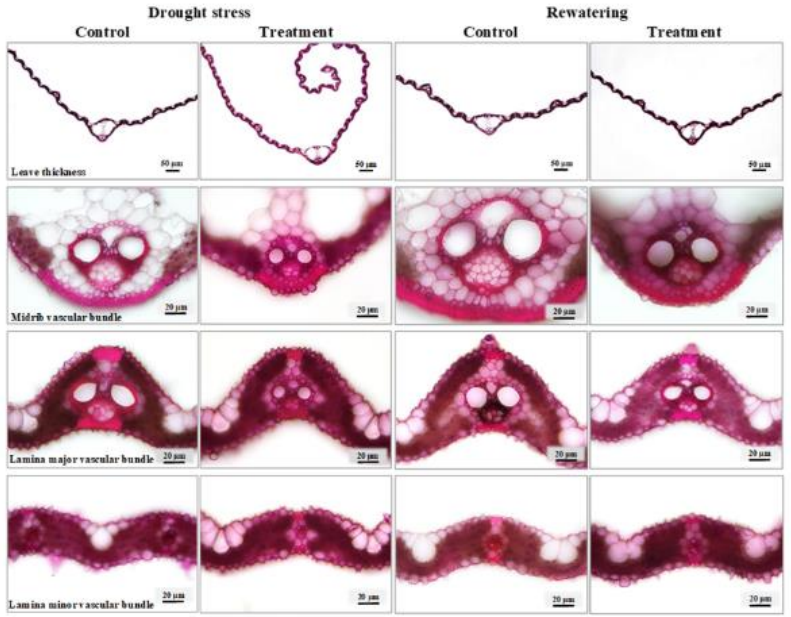
Utilizing of aerial photography to study the distribution of seaweed in Saphan Hin Park, Mueang District, Phuket Province, Thailand

โดย Kumlom, T., **Phewphan, U.,** Ponganan, N. and Rakasachat, C.

Keywords: Seaweed distribution, Aerial photograph, UAV, Remote sensing, Saphan Hin Park

Link: https://li04.tci-thaijo.org/index.php/IJAT/article/view/4075



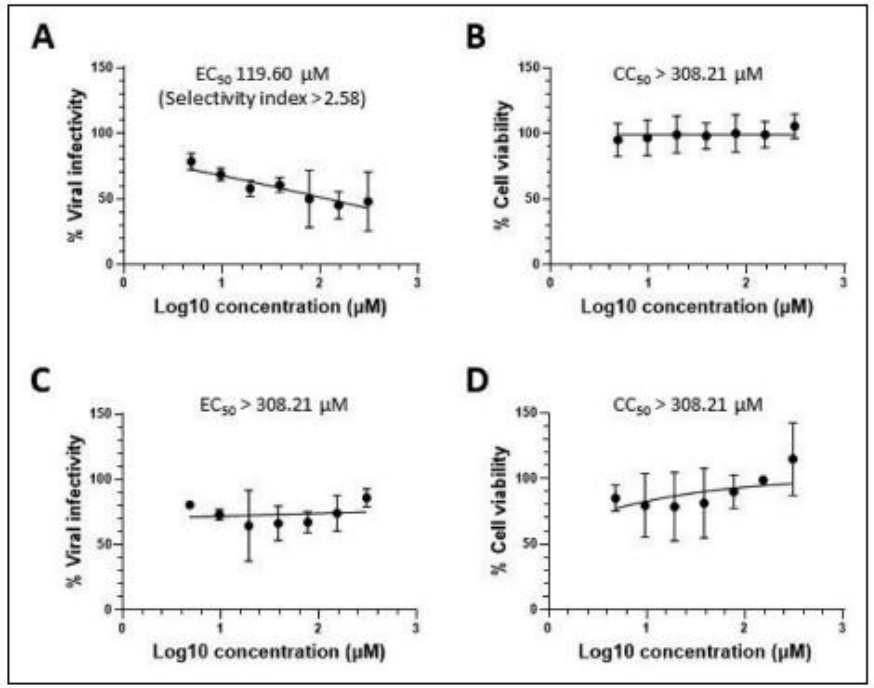


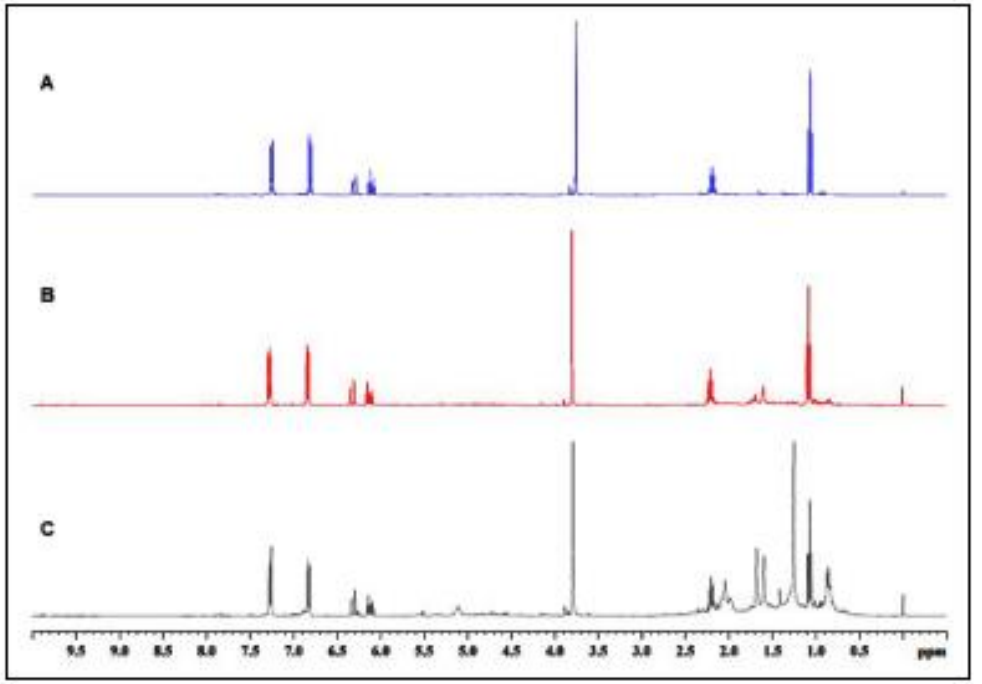
Physiological and anatomical adaptations of rice (*Oryza sativa* L.) grown under drought stress

โดย Narisa Kunpratum, **Attachai Trunjaruen**, Chonnakarn Kungla, Pitakpong Maneerattanarungroj, Ploinapat Mahatthanaphatcharakun, Worasitikulya Taratima*

Keywords: Anatomical adaptation, Drought stress, Physiological characteristics, Water deficit

Link: https://doi.org/10.15835/nbha53114060



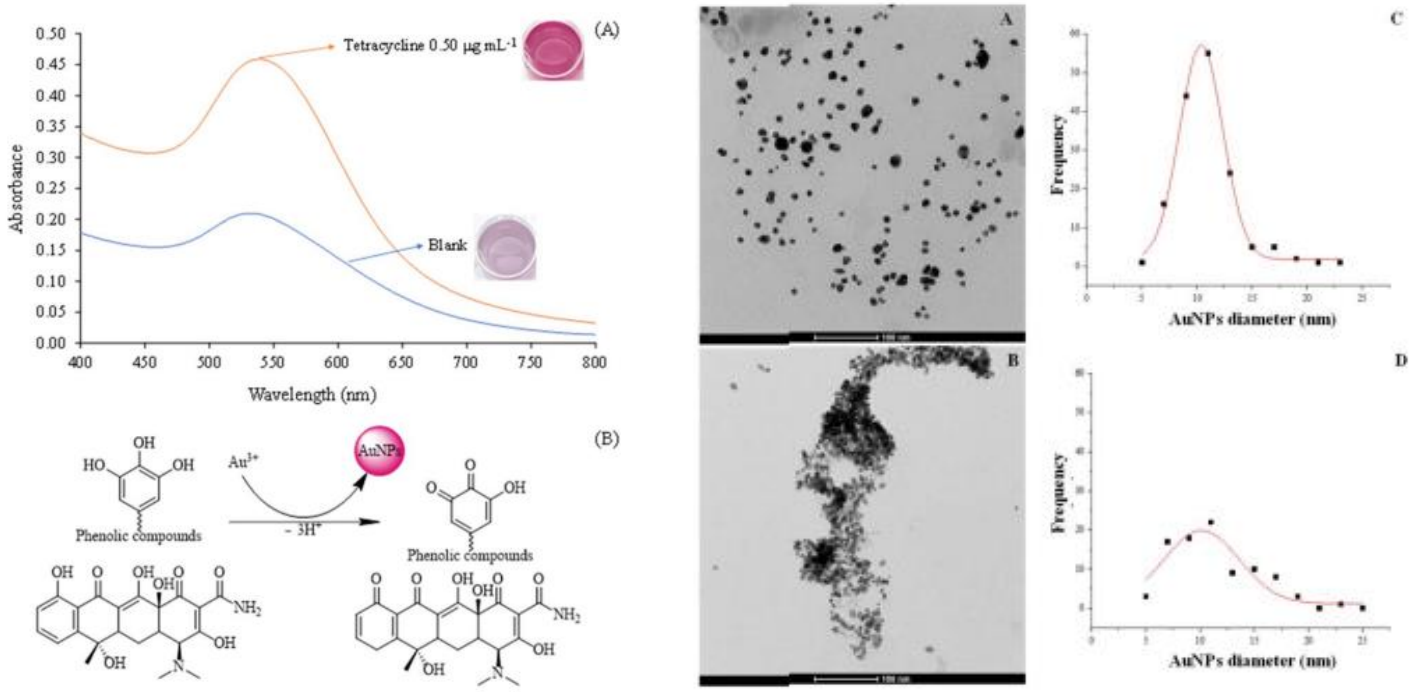


An Anisole Derivative in the Essential oil of *Wurfbainia schmidtii* with Virucidal Activity Against SARS-CoV-2 and Anti-Inflammatory Properties

โดย Charmaine Sagayap, Piyachat Chuysinuan, Nopporn Chutiwitoonchai,Patcharee Pripdeevech, **Wittaya Kaewsri**, Sanya Sureram, Narisara Chantratita, Kriengsak Lirdprapamongkol, Jisnuson Svasti, Supanna Techasakul, Chulabhorn Mahidol, Somsak Ruchirawat, and Prasat Kittakoop

Keywords: Antiviral compounds, Massage oils, GC-MS, Phenylbutanoid, Aromatic plant, *Amomum biflorum*, *Amomum schmidtii*

Link: https://doi.org/10.1177/1934578X251323479

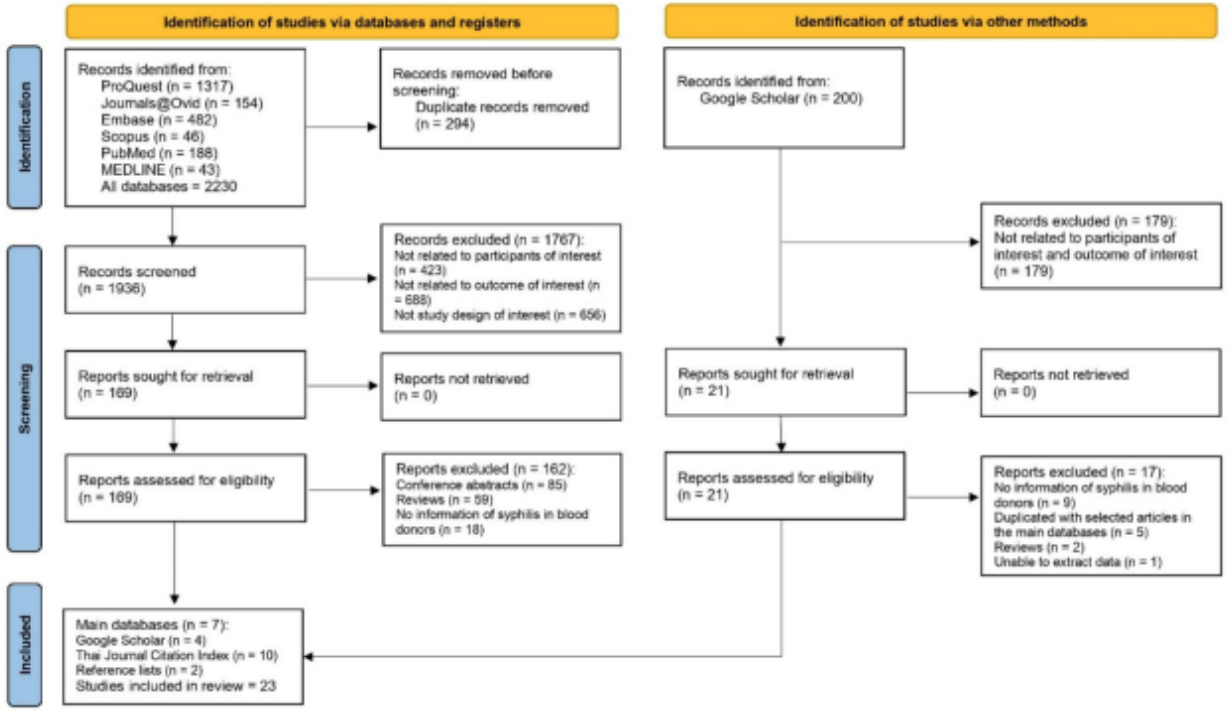


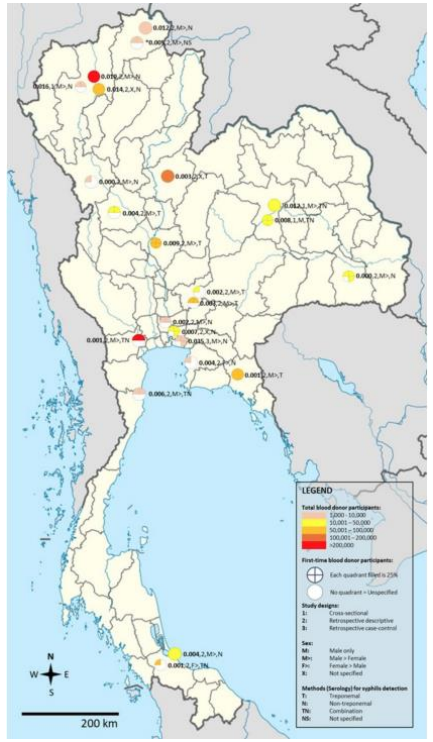
A facile smartphone-based digital image colorimetric sensor for the determination of tetracyclines in water using natural phenolic compounds induced to grow gold nanoparticles

โดย Kraingkrai Ponhong, Tammanoon Nilnit, Chang Young Lee, Worapan Kusakunniran,c Phoonthawee Saetearde and **Sam-ang Supharoek**

Keywords: colorimetric sensor; tetracycline; nanoparticles

Link: https://doi.org/10.1039/d5ra00091b



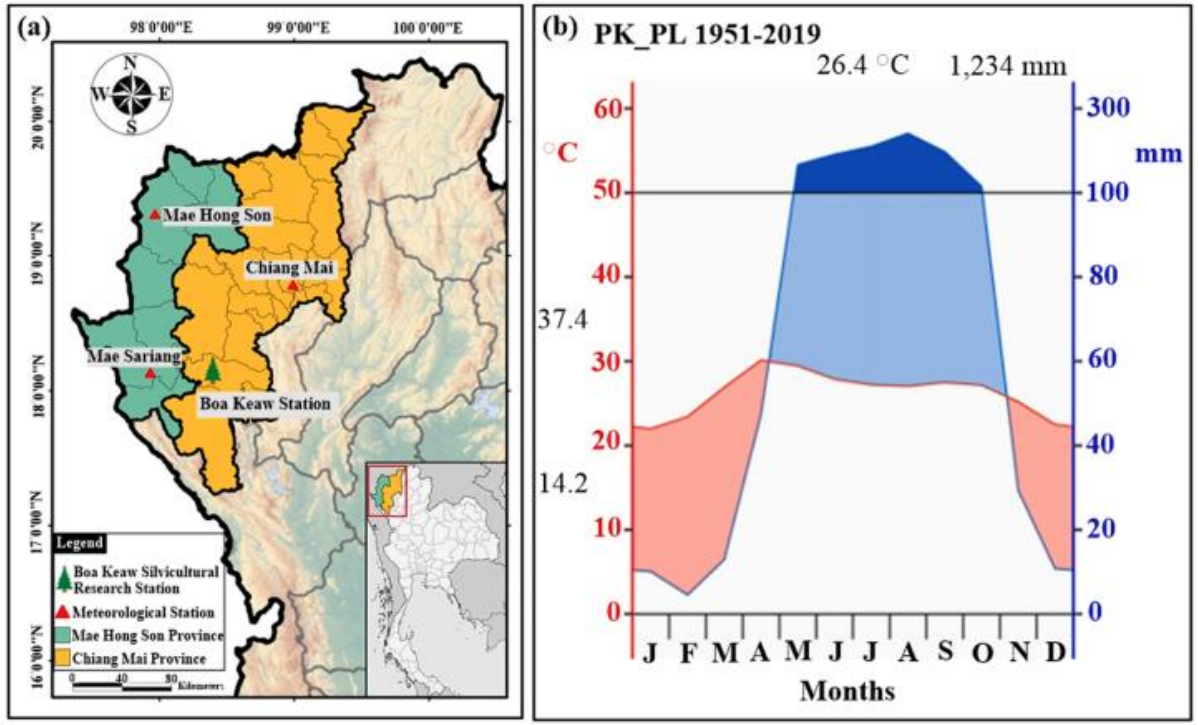


A systematic review and meta-analysis of the prevalence and risk of syphilis among blood donors in Thailand

โดย Rujikorn Rattanatham, Wanida Mala, Kwuntida Uthaisar Kotepui, Frederick Ramirez Masangkay, **Chutima Rattanawan**, Supakanya Lasom, Kinley Wangdi and Manas Kotepui

Keywords: Syphilis, Blood donors, Prevalence, Thailand, Meta-analysis, Systematic review

Link: https://doi.org/10.1038/s41598-025-94332-3

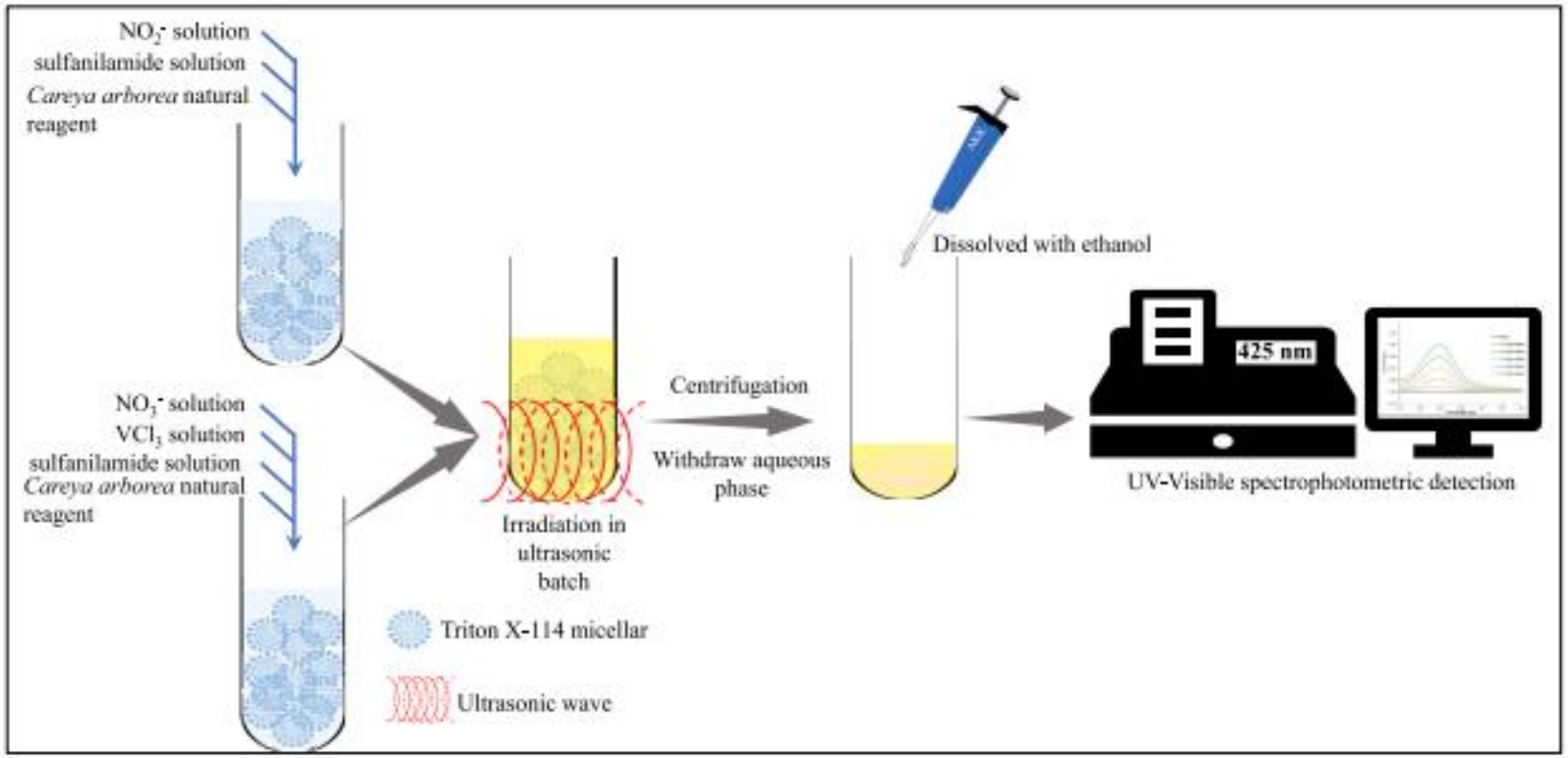


Differential climate sensitivity of cell anatomy and species-specific hydraulic safety of two Asian tropical pines in Northern Thailand

โดย Nathsuda Pumijumnong, Piyarat Songtrirat, Shankar Panthi, Ze-Xin Fan,Pei-Li Fu, Marcin Koprowski, Supaporn Buajan, Rattanakorn Chatwatthana, Uthai Chareonwong, **Chotika Muangsong** and Binggui Cai

Keywords: Cellular anatomy, Climate change, Differential climate sensitivity, Earlywood-latewood, Pinus kesiya, Pinus latteri, Tree hydraulics

Link: https://doi.org/10.1016/j.gecco.2025.e03548

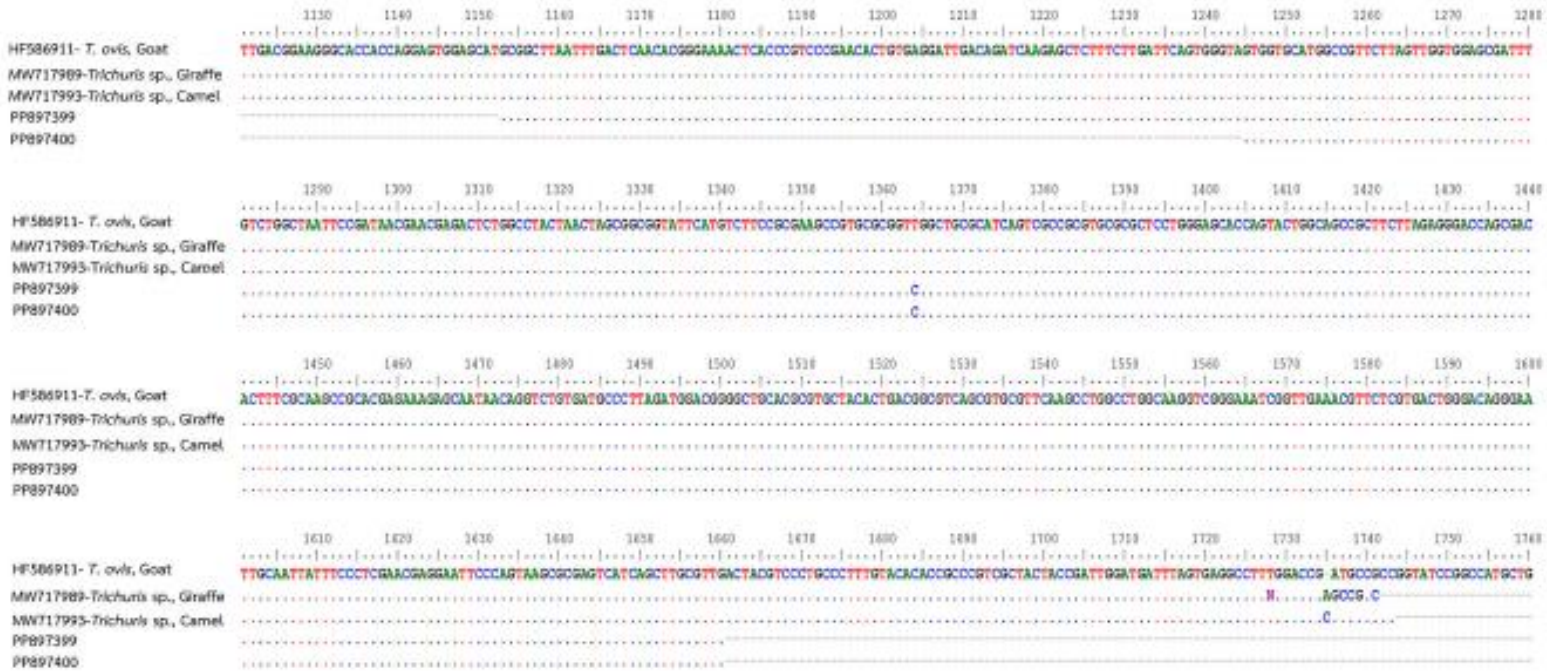


Ultrasound-assisted one-pot cloud point extraction for spectrophotometric nitrate and nitrite determination in sausage products using *Careya arborea* Roxb. leaf extracts

โดย ผศ.ดร. สำอาง ศุภฤกษ์ และคณะผู้วิจัย

Keywords: *Careya arborea* Roxb., Cloud point extraction, Food preservation, Natural reagent, Nitrate and nitrite, Ultrasound-assisted one-pot

Link: https://doi.org/10.1016/j.fochx.2025.102381



Molecular identification of *Trichuris* species in long-tailed macaques from Dong Ling Don Chao Pu Park and Kumphawapi Monkey Garden, Northeast Thailand: First report suggesting possible *Trichuris ovis* infection in non-human primates

โดย ดร.อิสระพงษ์ โพธิ์สุข และคณะผู้วิจัย

Keywords: Northeast Thailand, Long-tailed macaques, T. trichiura, T. ovis, 18S ribosomal RNA

Link: https://doi.org/10.1016/j.ijppaw.2025.101063

Factor	Plant height (cm)	Leaf area per plant (cm^2)	Stem diameter (mm)	Number of branches per plant
Cultivar				
Sweet Pink	79.25a	469.36a	5.20a	3.50a
Polaris	79.35a	527.29a	5.09a	3.87a
Light Source				
Blue LED	57.12c	299.00b	4.37b	3.75a
Fluorescent	89.75ab	710.60a	6.69a	3.69a
Grow Light	74.50bc	437.20ab	4.62b	4.00a
White LED	97.50a	619.80ab	5.25ab	3.69a
Red LED	77.63abc	425.00ab	4.80b	3.31a
F-test				
Cultivar	0.98	0.49	0.78	0.24
Light Source	0.01	0.03	0.01	0.74
Cultivar x Light Source	0.96	0.82	0.55	0.63
CV	18.42	52.42	23.06	26.85

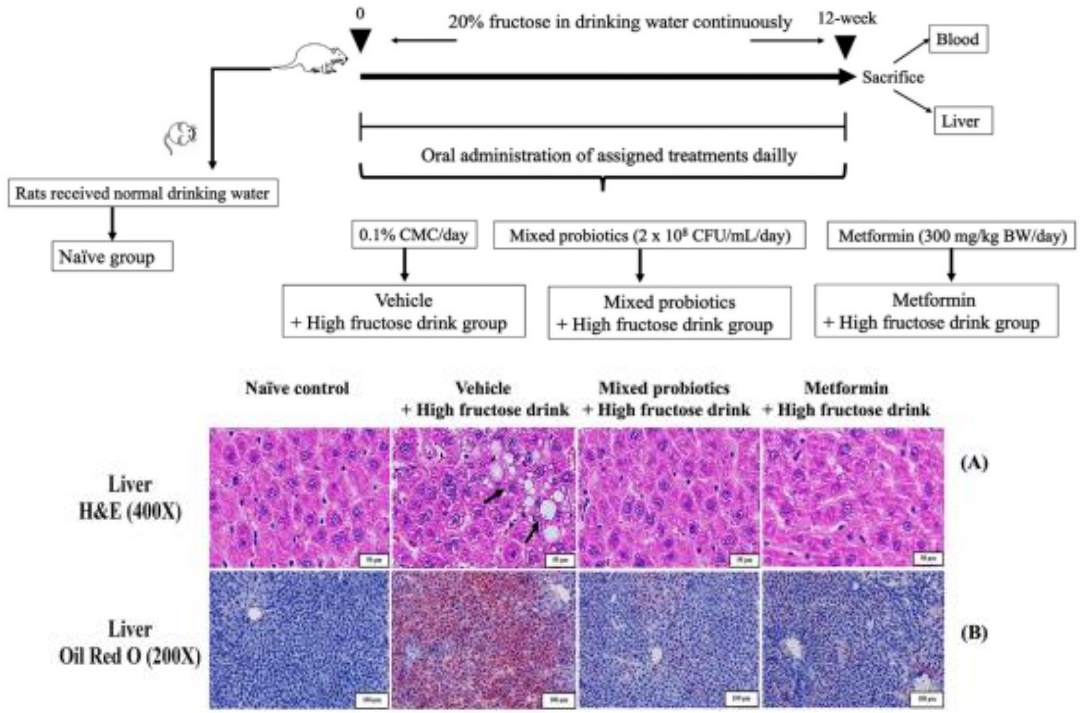
Values sharing same letters differ non-significantly ($P > 0.05$)

Effects of Different Light-Emitting Diode (LED) Illumination on Growth and Flowering in Chrysanthemum

โดย ดร.ทวีศักดิ์ วิยะชัย และคณะผู้วิจัย

Keywords: Cut flower Artificial light, Night break, Photoperiod, Phytochrome

Link: https://doi.org/10.17957/IJAB/15.2321

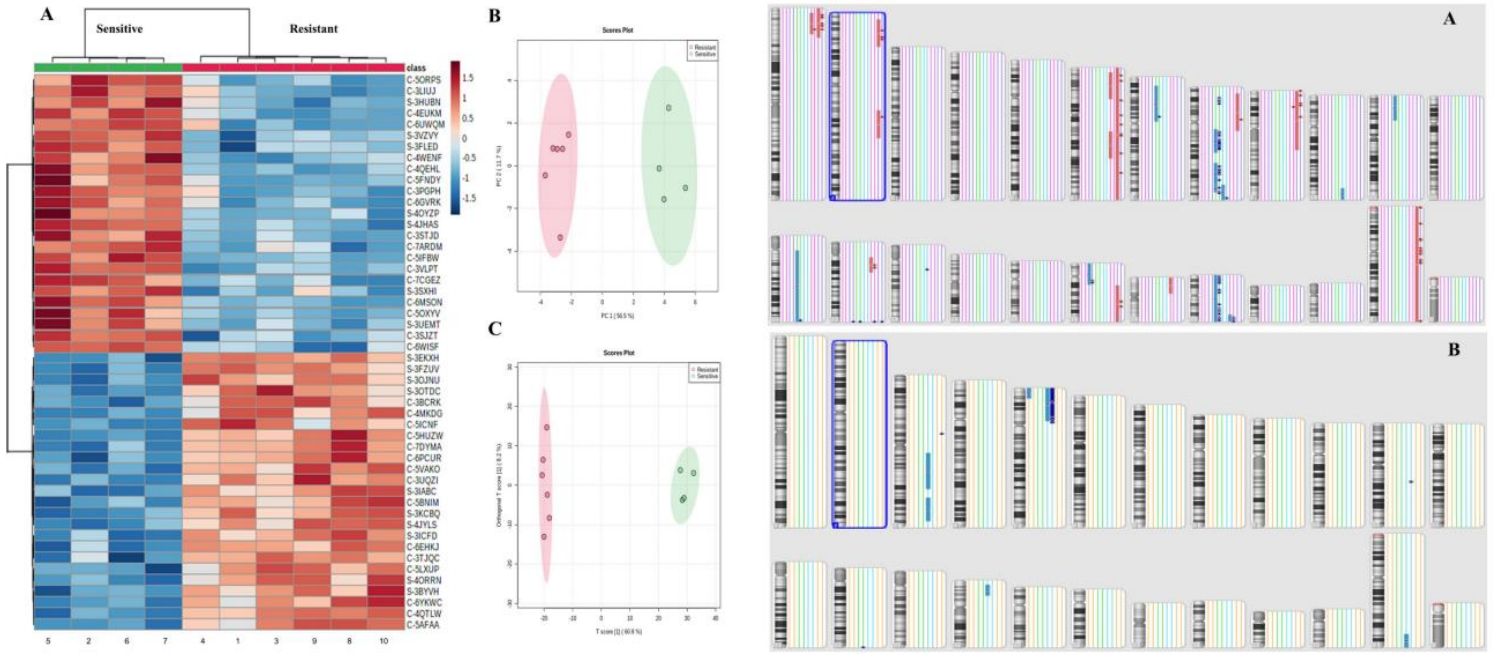


Administration of a probiotic supplement attenuates nonalcoholic fatty liver disease by reducing hepatic lipid accumulation, oxidative stress, and inflammation

โดย Pennapa Chonpathompikunlert, Pratoomporn Yingthongchai, Suriya Tateing, Anuwat Amatachaya, **Sasalux Kaewbutra**, Neungnut Chaiyawan, Thanyarat Lekchaoum, Chaivarakun Chaipanya, Wachirawadee Malakul, and Jurairat Khongrum

Keywords: probiotics, Lactobacillus zeae, *Lactobacillus reuteri*, non-alcoholic fatty liver disease (NAFLD), lipid metabolism

Link: https://doi.org/10.12938/bmfh.2024-074



Identifying a unique chromosomal pattern to predict the gemcitabine response in patients with cholangiocarcinoma

โดย Sutheemon Techa-ay, Sasithorn Watcharadetwittaya, Raksawan Deenonpoe, Prakasit Sa-ngiamwibool, Chanita Panwoon, Watcharin Loilome, Poramate Klanrit, AnchaleeTechasen, Yaovalux Chamgramol, Manida Suksawat, **Napat Armartmuntree**, Thomas O'Connor, Hideyuki Saya and Malinee Thanee

Keywords: cholangiocarcinoma; chromosome; gemcitabine

Link: https://doi.org/10.1038/s41598-025-96442-4

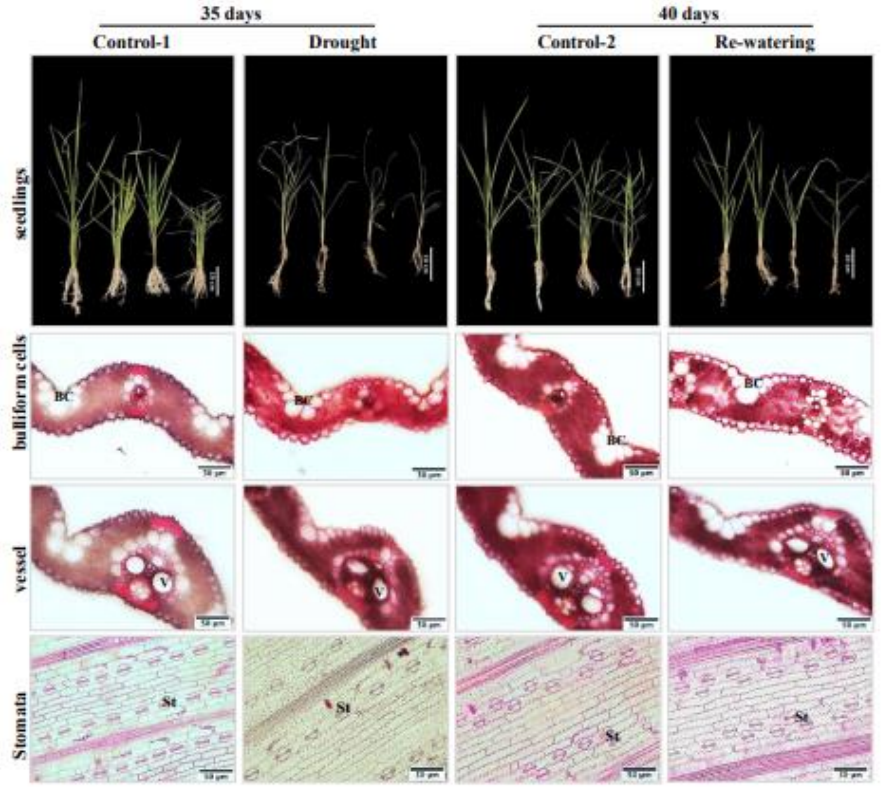
Items	Year			
	0	1	2	3
Cashflow (€)	0	1861.63	2052.64	2257.90
Outflow (€)	-3101.53	750.71	825.78	908.36
Net cash flow (€)	-3101.53	1110.91	1226.85	1349.53
Accumulated net cash flow (€)	-3101.53	-1990.61	-763.76	585.77
Net present value (NPV)	=	102.72		
Internal rate of return (IRR)	=	9%		
Payback period (PP)	=	2 years 6 months		
Return on investment (ROI)	=	0.66		

Social return on investment of cultivating premium organic cherry tomatoes in Ubon Ratchathani Province, Thailand

โดย Panamon Chantabutr, **Taweesak Viyachai**, Thin Promchot, Parkpoom Subnugarn, Nimmannoradee Promtong and Rugkeart Sanprasert

Keywords: Cost-Benefit Analysis; Social Return on Investment; Organic Cherry Tomatoes; Substrate culture

Link: https://www.agrojournal.org/31/02-05.pdf



Physio-biochemical and anatomical responses of upland rice (*Oryza sativa* L.) genotype during the vegetative stage under drought stress

โดย Sirinda Sutthachai, **Attachai Trunjaruen**, Ploinapat Mahatthanaphatcharakun, Worasitikulya Taratima

Keywords: Electrolyte leakage, Environmental stress, Leaf anatomy, MDA, Upland rice, Water deficiency

Link: https://doi.org/10.35495/ajab.2024.265