

Job interview for lecturer position

Thanet Pitakbut, Dr. rer. nat

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Special Issue

Plant Natural Products: From Classical to (Bio)Technological and AI Research

Guest Editors

Dr. Jennifer Munkert
Dr. Thanet Pitakbut

Deadline

30 June 2026



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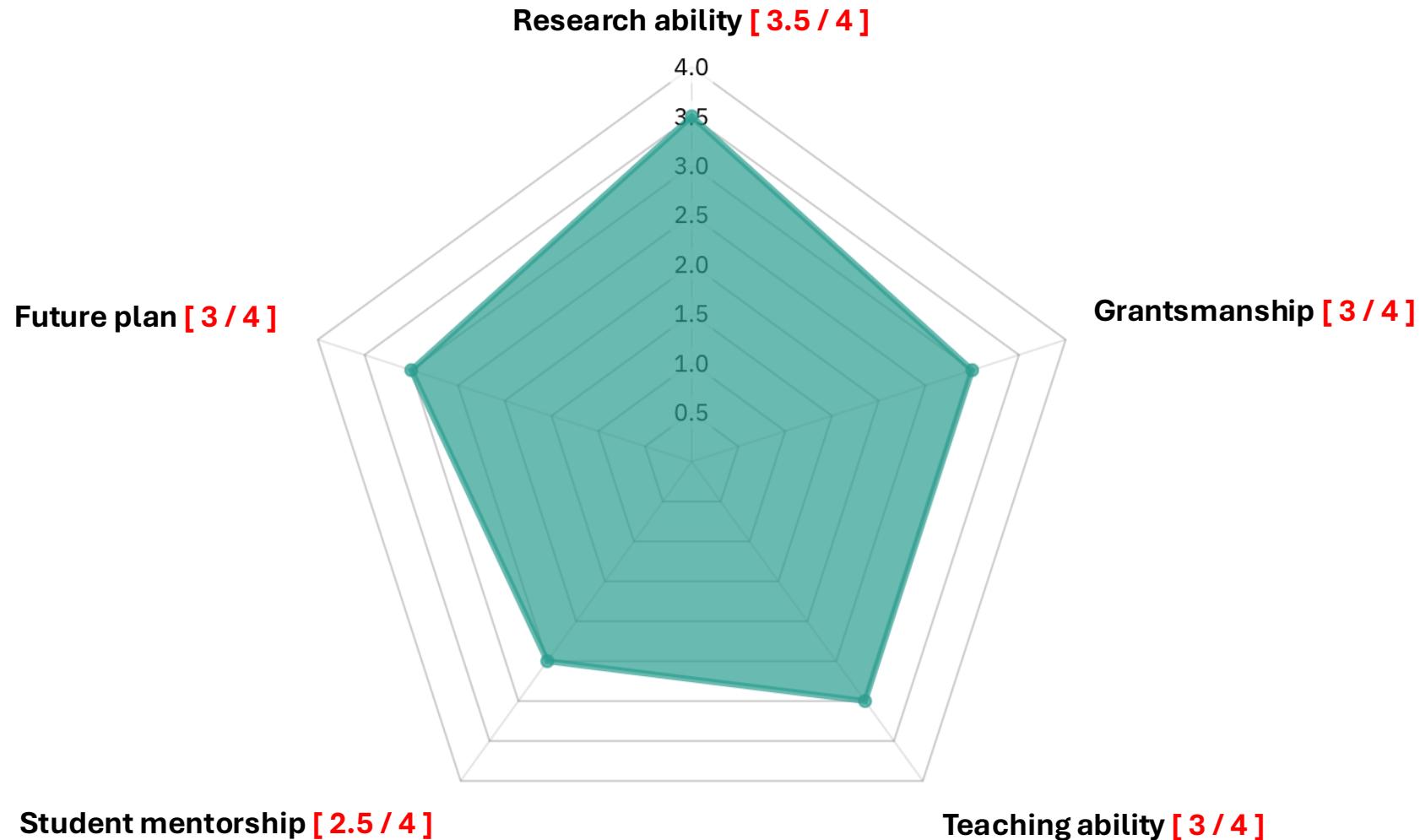
For more info: https://www.mdpi.com/journal/molecules/special_issues/721F6GLNNG

Basic information



- **Name:** Thanet Pitakbut
- **Education:** BSc (Thai Traditional Medicine), PSU, Thailand
MPharm, PSU, Thailand
Dr rer nat, TU Dortmund, Germany
- **Training:** Postdoc, Pharmaceutical Biology, FAU, Germany
Postdoc, Molecular & Material Design TechHub,
UvA, Netherlands

Lecturer Readiness Levels – Self evaluation

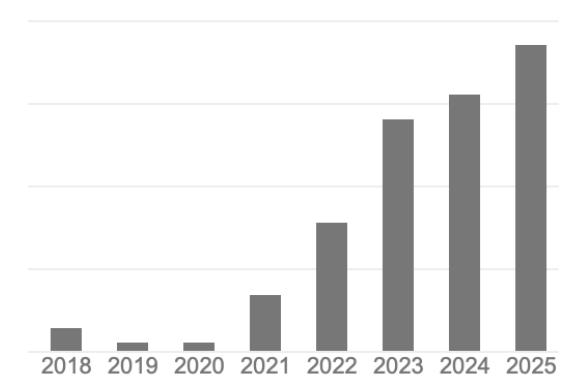


Research ability

- ***Numerical metric (Google Scholar)***

- H – Index: 10
- Citation: 323
- No. Publication: 22

(3 co-corres, 5 first, and 14 co-authors)



- ***Expertise (highlight)***

- Drug discovery (Hit identification), Chemical – Protein interaction, Molecular simulation, machine learning, and AI.

Research ability – Highlight (1)

Home > BMC Chemistry > Article

Utilizing machine learning-based QSAR model to overcome standalone consensus docking limitation in beta-lactamase inhibitors screening: a proof-of-concept study

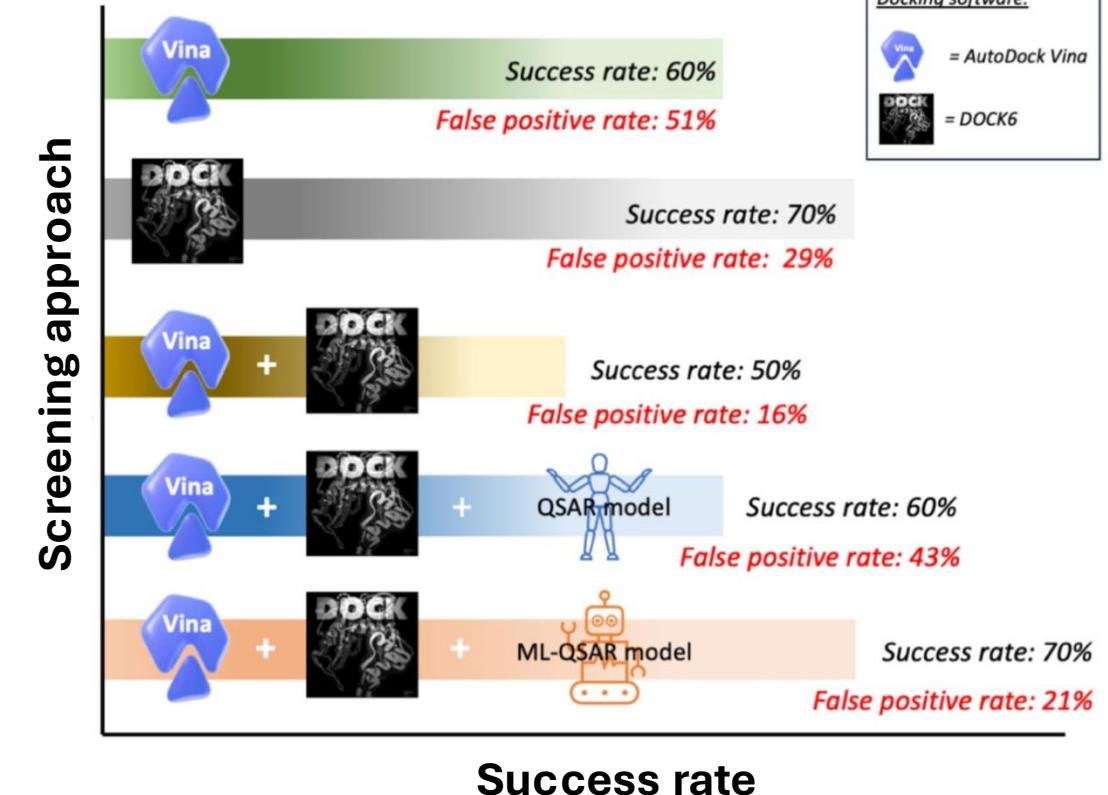
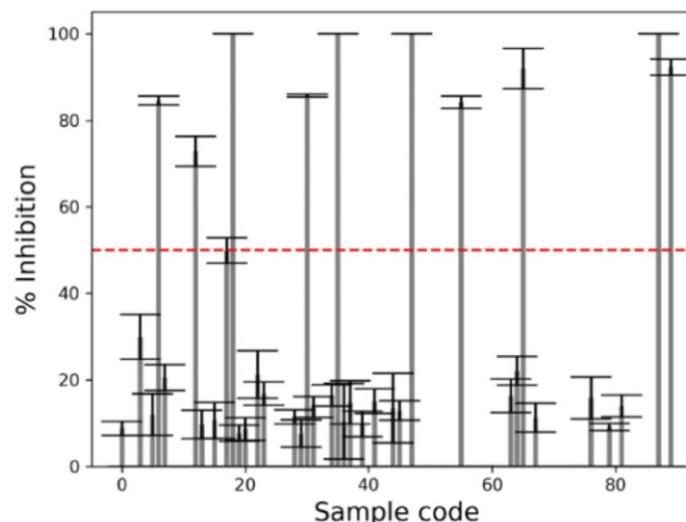
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Volume 18, article number 249, (2024) Cite this article



BMC Chemistry

Aims and scope →



Research ability – Highlight (2)

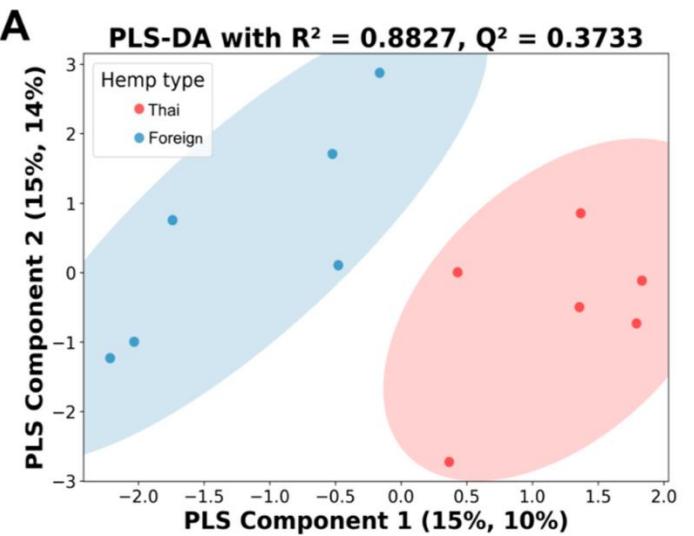
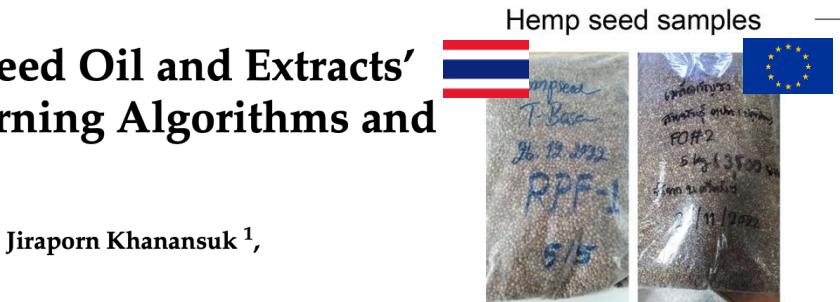
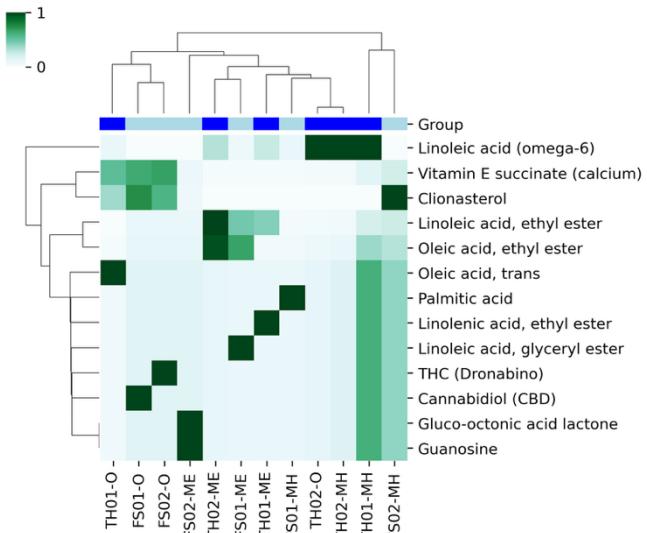
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Article

Insights into Thai and Foreign Hemp Seed Oil and Extracts' GC/MS Data Re-Analysis Through Learning Algorithms and Anti-Aging Properties

Suthinee Sangkanu¹, Thanet Pitakbut^{2,3} , Sathianpong Phoophra⁴ , Jiraporn Khanansuk¹, Kasemsiri Chandarajoti⁵ and Sukanya Dej-adisai^{1,*}



Chemicals	% of the Total of Each Chemical Constituent in Each Sample								
	HS-TH-1-O	HS-TH-1-M-H	HS-TH-1-M-E	HS-TH-2-O	HS-TH-2-M-H	HS-TH-2-M-E	HS-SS-1-O	HS-SS-1-M-H	HS-SS-1-M-E
Palmitic acid	2.05	0.28	9.94	2.74	7.56	4.43	-	10.21	5.58
Ethyl palmitate	-	-	-	-	-	-	-	-	-
Palmitic acid, ethyl ester	-	2.25	4.51	-	1.52	7.14	-	-	8.57
α -Linolenic acid (omega-3)	-	-	-	-	-	-	-	-	-
Oleic Acid	-	-	-	-	-	-	3.51	-	-
Linoleic acid (omega-6)	20.09 *	22.93 *	35.13 *	86.53 *	66.24 *	34.08 *	-	17.63 *	15.04
trans-Oleic acid	16.42	-	-	-	-	-	-	-	5.36
Linoleic acid, ethyl ester	-	7.89	10.36	-	-	20.61	-	1.58	11.49
Linolenic acid, ethyl ester	-	-	12.27	-	-	-	-	-	-
Ethyl Oleate	-	-	-	-	-	13.02	-	-	10.72
Stearic acid	-	-	-	-	-	-	-	1.73	-
Stearic acid ethyl ester	-	-	3.92	-	-	2.37	-	-	2.65
2-Pentylfuran	-	-	-	-	-	-	-	1.58	-
Glycerin	-	-	-	-	-	1.21	-	-	-
(\pm)-Glycidol	-	-	-	-	-	-	-	-	-
(2R,4R)-2,4 imethyl-1-heptanol	-	-	-	-	-	-	-	1.23	-
4H-Pyran-4-one, 2,3-dihydro-3,5-dihydroxy-6-methyl-	-	-	-	-	-	-	-	-	-
2-Isopropyl-5-methyl-6-oxabicyclo[3.1.0]hexane-1-carbaldehyde	-	-	-	-	-	-	-	1.83	-
(2E,E)-2,4-Decadienal	-	6.94	-	-	-	-	-	8.07	-
5-Pentyl-2(5H)-furanone	-	-	-	-	-	-	-	1.27	-
7-Ethyl-4-nanone	-	1.95	-	-	-	-	-	3.73	-
Guanosine	-	-	-	-	-	-	-	-	-
2,4-Di-tert-butylphenol	-	-	-	-	-	3.19	-	-	-
Benzoic acid, 4-ethoxy-, ethyl ester	-	1.30	-	-	-	-	-	1.21	-
Tyramine	-	-	1.45	-	-	-	-	-	-
Myo inositol	-	-	-	-	-	-	-	-	-
α , β -Gluco-octonic acid lactone	-	-	-	-	-	-	-	-	-
N-(2-Furylmethyl)-2-methylanilin	-	-	-	-	-	-	-	-	-
1-Octadecanol	-	1.39	-	-	-	-	-	1.17	-
1-Docosanol	-	-	-	-	-	-	-	1.06	-
2-Palmitoylglycerol	-	-	-	-	-	-	-	1.08	-
3-Amino-2-methyl-3-(4-methylphenyl)-1-phenyl-1-propanol	-	-	-	-	-	1.97	-	-	-
Linoleic acid, TMS	-	2.24	1.15	-	-	-	-	2.86	-
2-Monoolein	-	-	-	-	-	-	-	2.53	-
glycerol-linoleate	-	8.03	-	-	-	-	-	15.12 *	-
β -Monolinolein	-	3.78	-	-	2.09	-	-	-	-
Nonanoic acid, 9-(3-hexenylidene)cyclopropylidene-, 2-hydroxy-1-(hydroxymethyl)ethyl ester, (Z,Z)-	-	-	3.84	-	-	-	-	6.04	-
Triterpenoid	2.40	-	-	-	-	-	1.66	-	2.18
Nonacosane	-	-	-	-	-	-	-	-	1.77
Vitamin E succinate (calcium)	12.63	-	-	-	-	-	14.16	-	15.10
Vitamin E	-	-	-	-	-	-	1.25	-	-
Camposterol	-	1.68	-	-	-	-	-	1.61	1.04
(β methyl-24R)-ergost-5-en-3-ol	3.78	-	-	-	-	-	7.61	-	5.28
Stigmasterol	-	-	-	-	-	-	1.41	-	1.45
Clonasterol	15.35	6.66	2.75	1.53	1.44	1.55	29.07 *	5.67	3.80
(E)-24-Propylidenecholesterol	-	-	-	-	-	-	-	1.73	-
23(Z)-ethylcholestanol	-	-	-	-	-	-	-	-	-
(3b,24Z)-Stigmasta-5,24(28)-dien-3-ol	-	-	-	-	-	-	5.95	-	4.30
Lanosterol	1.91	-	-	-	-	-	5.22	-	4.29

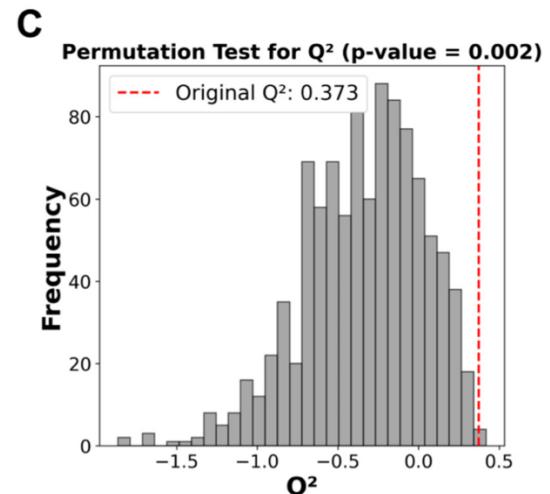


Table 1. Chemical composition of hemp seed oils and extracts.

Research ability – Highlight (2)



Article

Insights into Thai and Foreign Hemp Seed Oil and Extracts' GC/MS Data Re-Analysis Through Learning Algorithms and Anti-Aging Properties

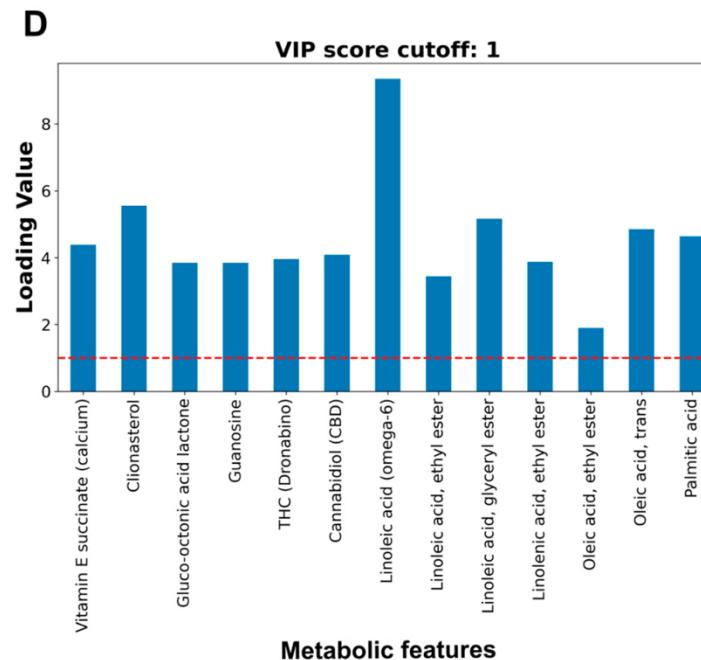
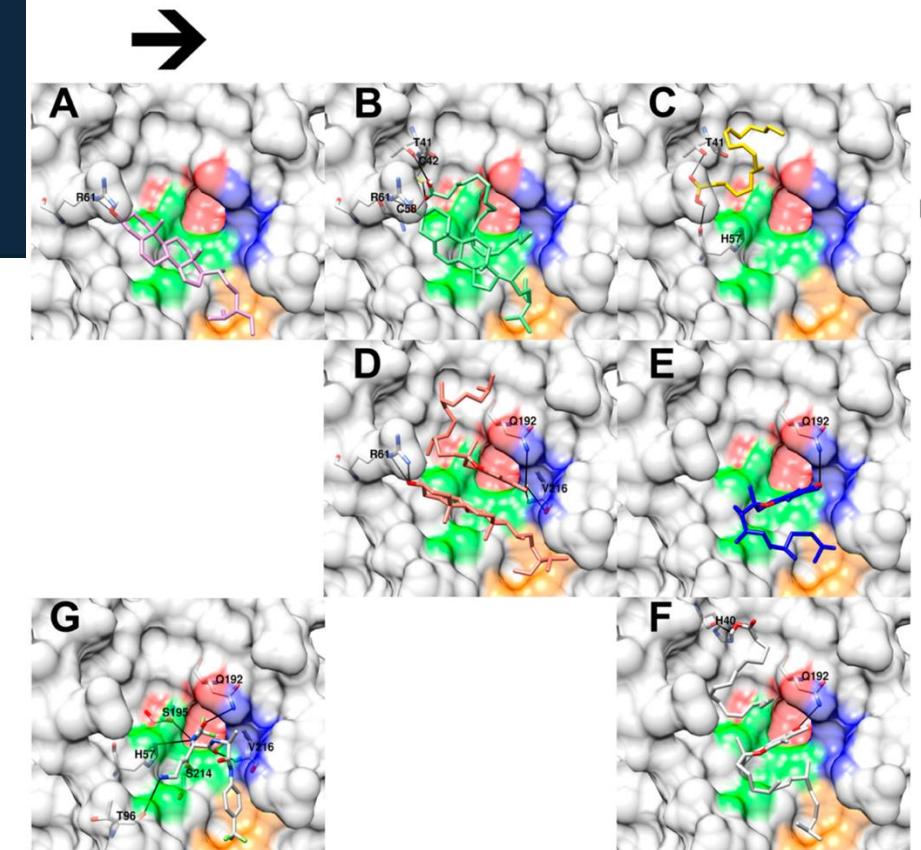


Table 3. Elastase inhibitory activity of the selected compounds and their combination test.

	Clionasterol	Linoleic Acid	Vitamin E
Clionasterol	40.97 ± 1.80 [119%, 118%]	89.76 ± 1.20 [67%, 63%]	66.94 ± 0.71 [51.88 ± 0.22 [29%, 26%]
Linoleic acid		41.15 ± 0.15	40.08 ± 0.38
Vitamin E			

The individual compounds were evaluated at a final concentration of 2 mg/mL, while the combinations were assessed at a final concentration of 1 mg/mL for each compound. Inside the bracket [] is the percentage increase in elastase inhibitory activity of combined molecules compared to each single molecule.



Grantsmanship

- ***Successful funding***

- DAAD
- Dr. Hertha and Helmut Schmauser Foundation
- Gustav-Adolf and Erika Dornhecker Foundation
- Bavarian University Center for China (BayCHINA)

Doctoral study	
Postdoc Project	AI
Postdoc Travel	AI
Postdoc Travel	AI

- ***Unsuccessful funding***

- DFG binational funding (Thailand-Germany)
- SEA – EU JSF
- e-ASIA
- Postdoc AI fellowship Bavarian State

Teaching ability

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Day 1: Introduction to light microscopy, cells, and supporting tissue

Day 2: Root, absorptive tissue, epidermal tissue

Day 3: Leaf, elimination tissue

Day 4: Conducting tissue

Day 5: Shoot axis, epidermal tissue

Day 6: Flowering

Day 7: Fruit, seed, cell inclusions

Day 8: The cell — forms of organization (prokaryotes vs eukaryotes)

Day 9: Human biology — animal cells and tissues, Part 1

Day 10: Human biology — animal cells and tissues, Part 2

Briefing Lab – 1

Introduction to the light microscope, cells, strengthening tissue

Microscopic sample 2

Plant: *Begonia spec. (Begonie)*

Organ: Blattstiell (Petioles)

Family: Begoniaceae

Objective: Primary cell wall from collenchyma cells

Reagent: DAS

Interpretation:

Magnification: 10x

Naturwissenschaftliche Fakultät

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Photo: Z. Lengyel, M. C., & P. H. Y. (2020). *Microscopie à Réseau* (pp. 1–100). Paris: Presses Universitaires de Paris.

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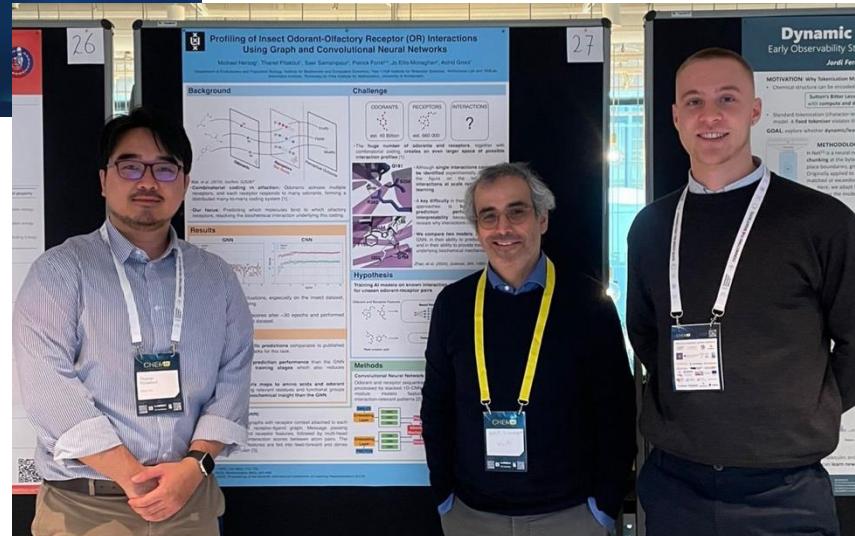
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Student mentorship



Future research plan - Thailand

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Thai Herbal Medicine Database

A Comprehensive Resource for AI-Driven Drug Discovery

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1,234

Medicinal Plants

5,678

Bioactive Molecules

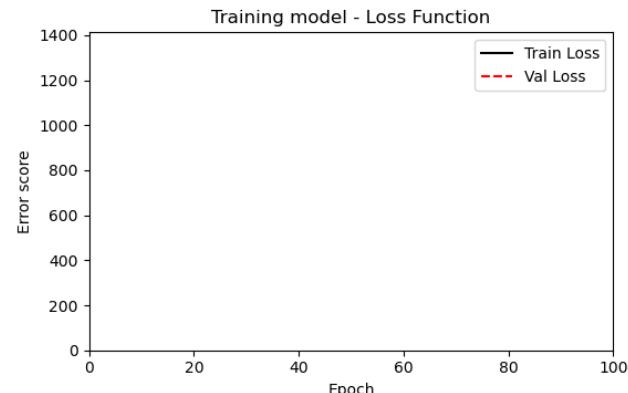
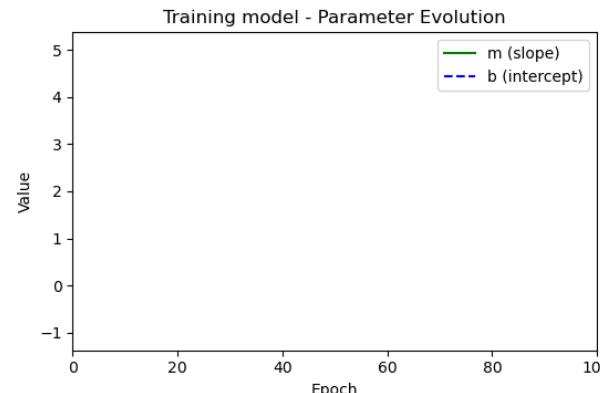
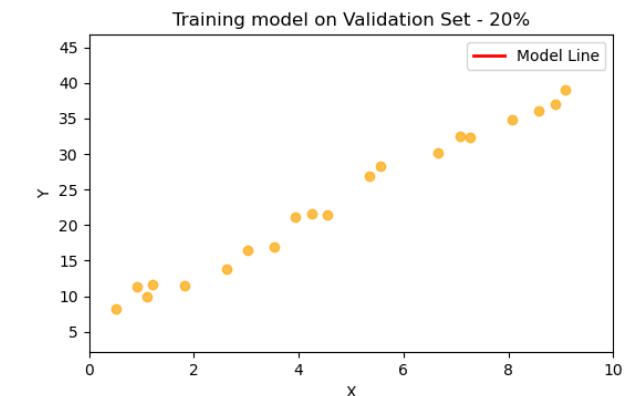
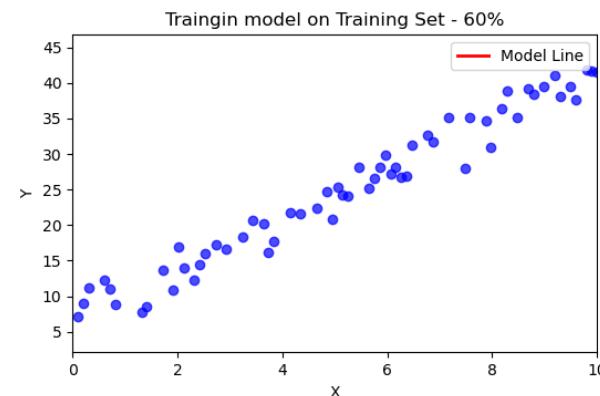
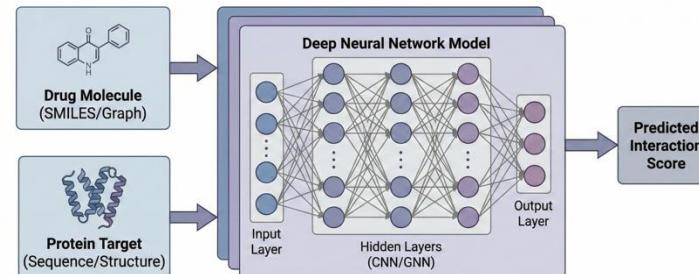
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Activities

Empowering AI-Driven Drug Discovery

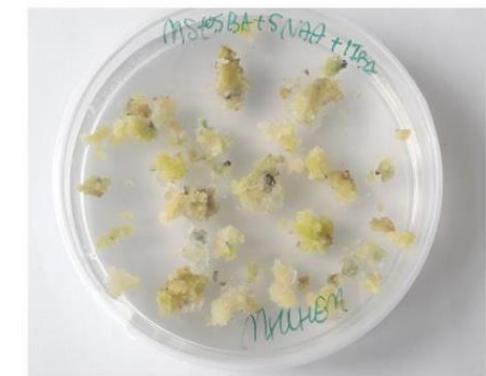
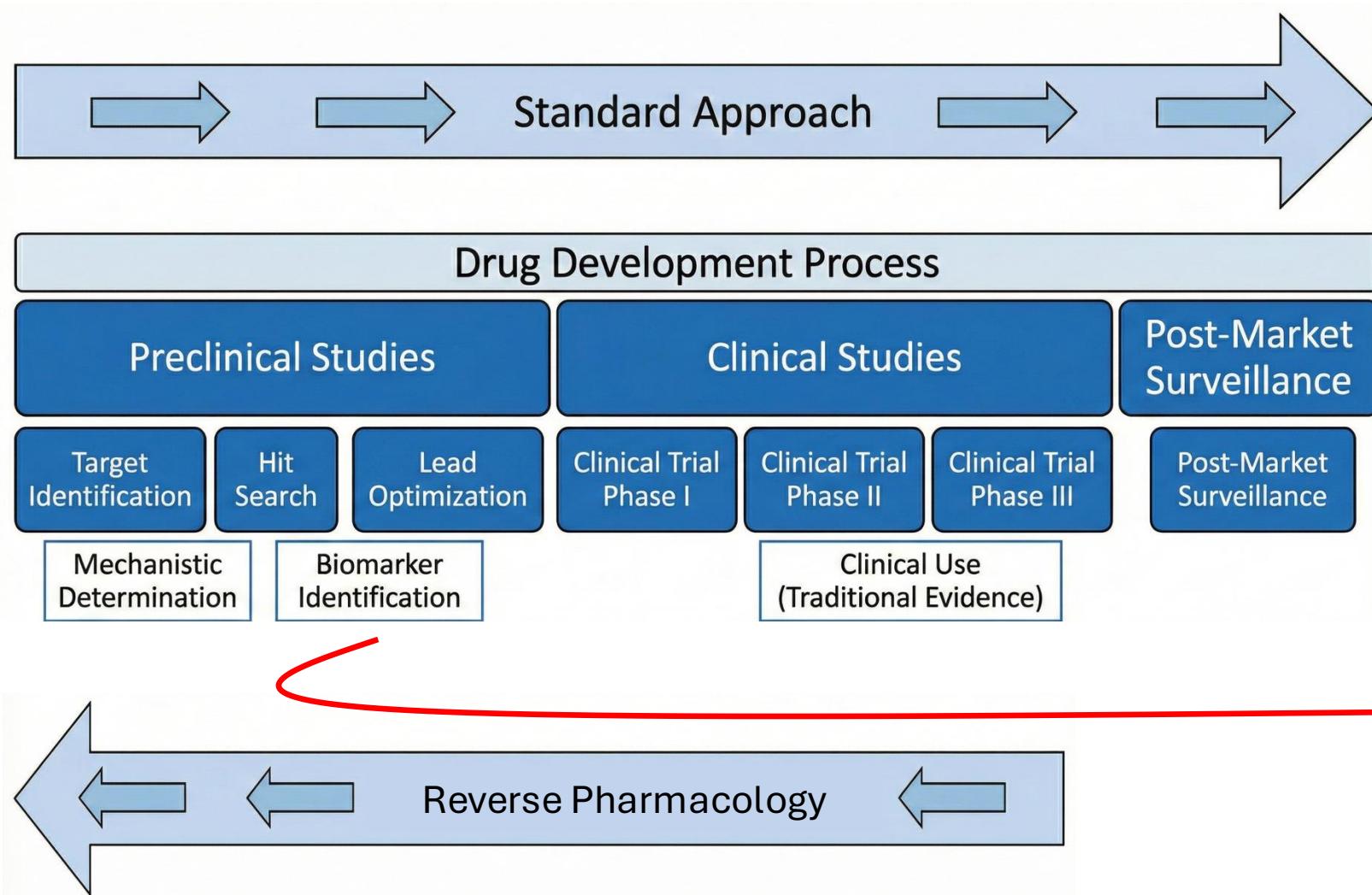
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Future research plan - Thailand

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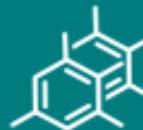
Plant Natural Products: From Classical to (Bio)Technological and AI Research

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Thank you for the opportunity