

Job interview for lecturer position

Thanet Pitakbut, Dr. rer. nat

Special Issue Advertisement

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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

 **molecules**

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My colleague and I are guest-editing a special issue of Molecules (MDPI), and we warmly invite you to submit your work.

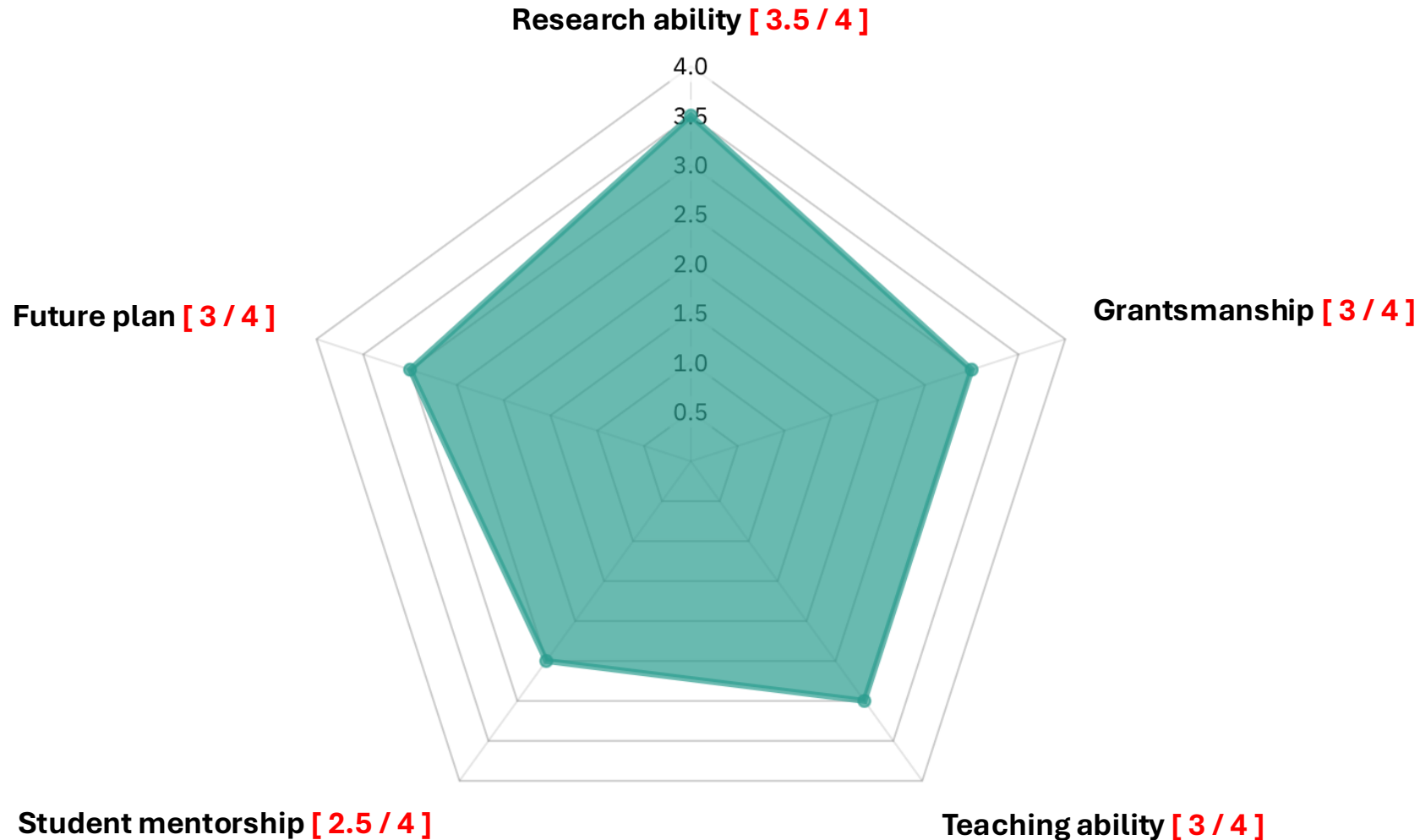
For more info: https://www.mdpi.com/journal/molecules/special_issues/721F6GLNNG

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

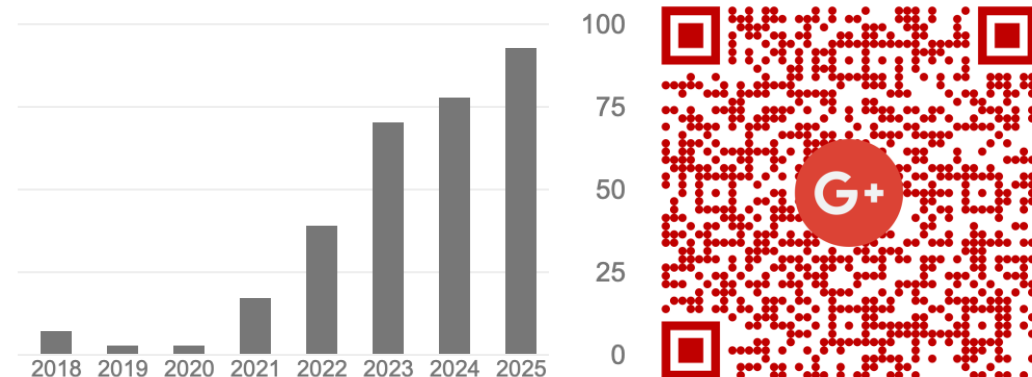


Research ability

- ***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

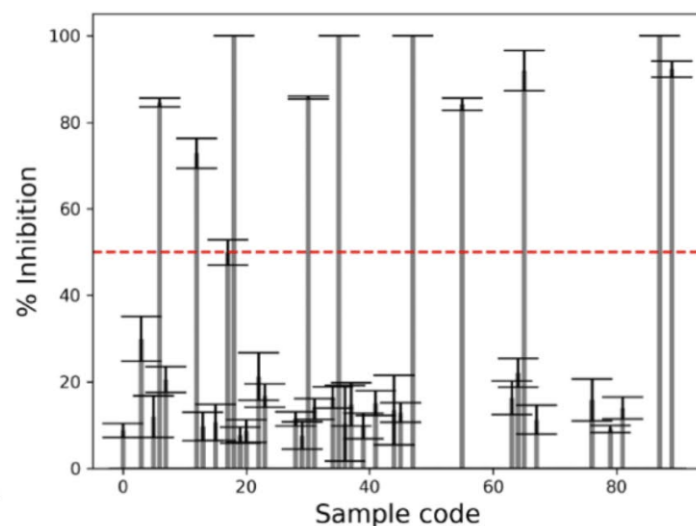
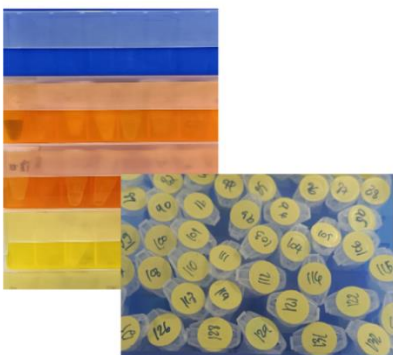
Research | [Open access](#) | Published: 20 December 2024

Volume 18, article number 249, (2024) [Cite this article](#)

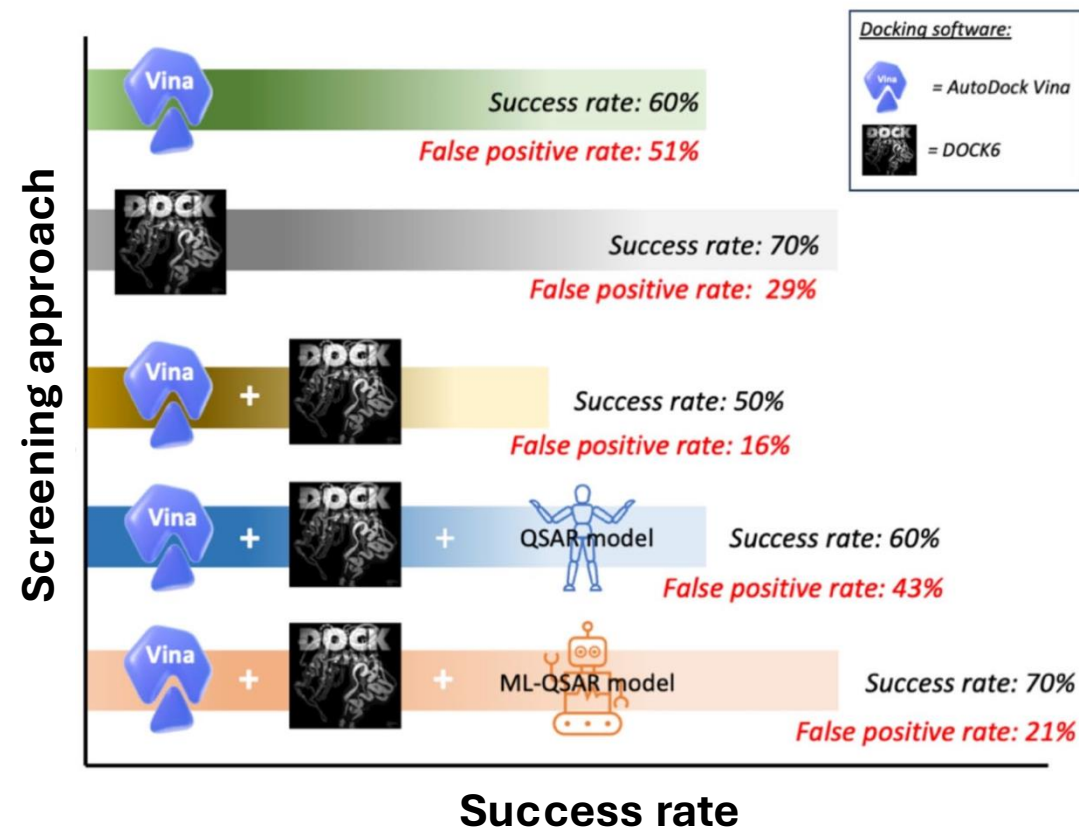


BMC Chemistry

[Aims and scope](#) →



FAU-PhARmaceutical Biology BIoactive MOlecules Library



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Research ability – Highlight (2)

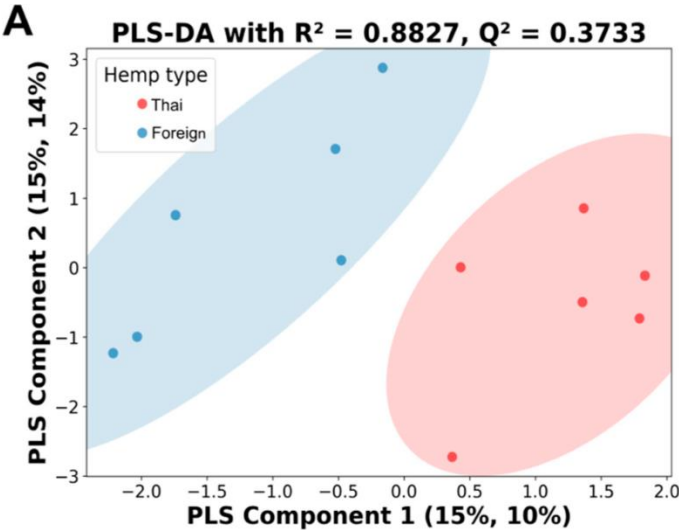
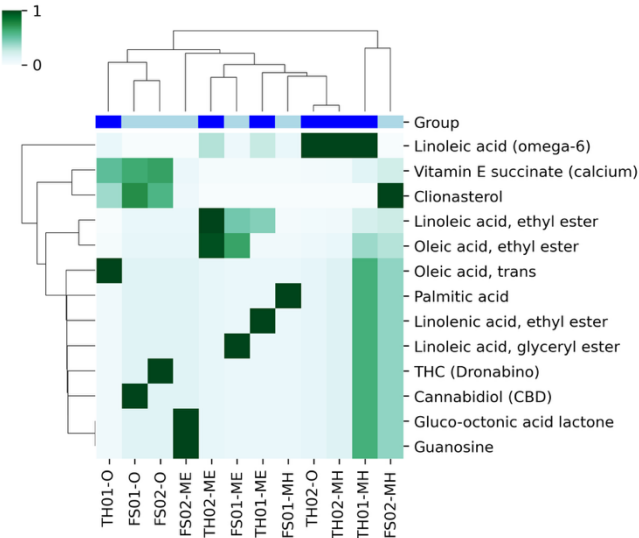
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Article

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

Suthinee Sangkanu ¹, Thanet Pitakbut ^{2,3} , Sathianpong Phoopha ⁴ , Jiraporn Khanansuk ¹, Kasemsiri Chandarajoti ⁵ and Sukanya Dej-adisai ^{1,*}

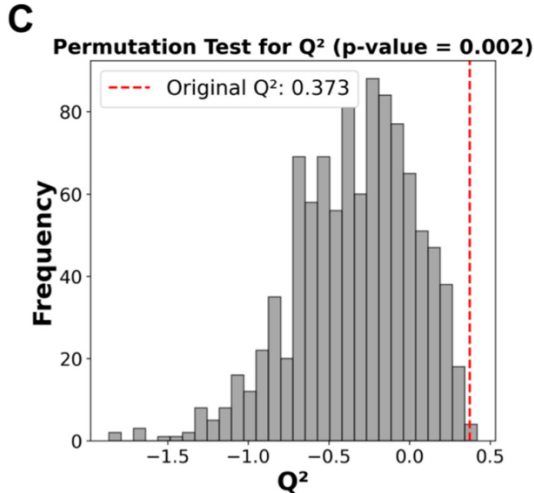


Hemp seed samples



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

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-FS-1-O	HS-FS-1-M-H	HS-FS-1-M-E	HS-FS-2-O
Palmitic acid	2.05	0.28	9.94	2.74	7.56	4.43	-	10.21	5.58	-
Ethyl palmitoleate	-	-	-	-	-	1.56	-	-	-	-
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,4E)-2,4-Decadienal	-	6.94	-	-	-	-	-	8.07	-	-
5-Pentyl-2(5H)-furanone	-	-	-	-	-	-	-	1.27	-	-
7-Ethyl-4-nonanone	-	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	-	-	-	-	-	-	-	1.17	-	-
1-Octadecanol	-	1.39	-	-	-	-	-	1.06	-	-
1-Docosanol	-	-	-	-	-	-	-	-	-	-
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-Monoclein	-	-	-	-	-	-	-	2.53	-	-
glyceryl-linoleate	-	-	8.03	-	-	-	-	-	15.12 *	-
β -Monolinolein	-	3.78	-	-	-	2.09	-	-	-	-
Nonanoic acid, 9-(3-hexenyldienecyclopropylidene)-, 2-hydroxy-1-(hydroxymethyl)ethyl ester, (Z,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	-	-	-
Campesterol	-	1.68	-	-	-	-	-	1.61	1.04	-
(3methyl,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	22.32 *
(E)-24-Propyldiencholesterol	-	-	-	-	-	-	-	1.73	-	-
23(Z)-ethylcholesterol	-	-	-	-	-	-	-	-	-	-
(3b,24Z)-Stigmasta-5,24(28)-dien-3-ol	-	-	-	-	-	-	5.95	-	-	4.30
Lanosterol	1.91	-	-	-	-	-	5.22	-	-	4.29



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

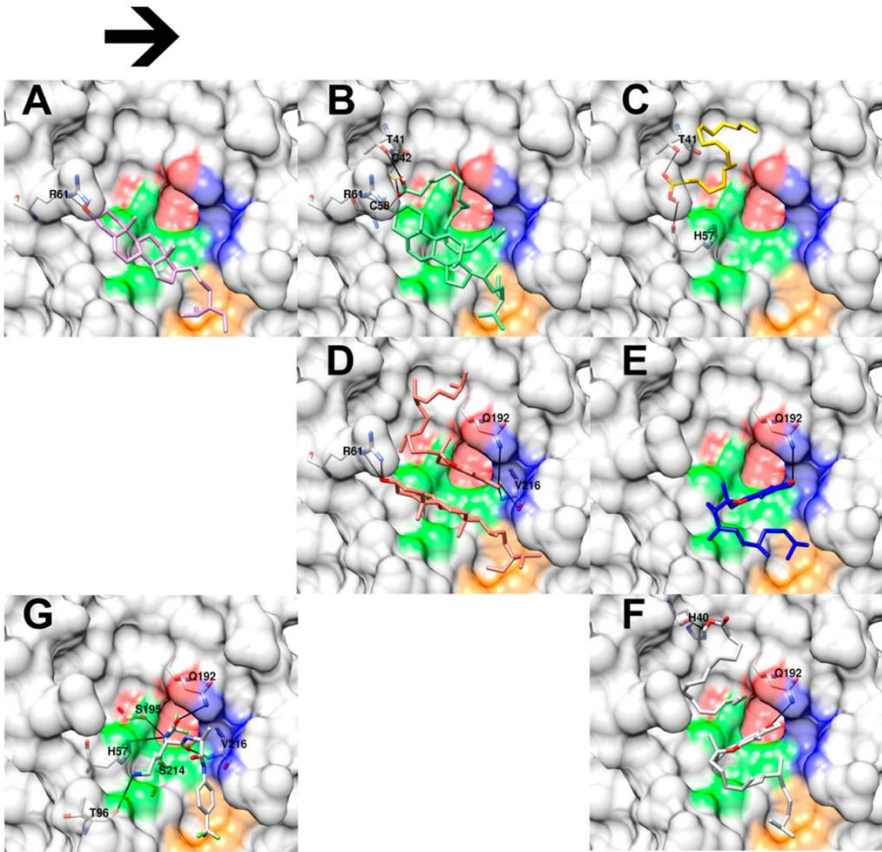
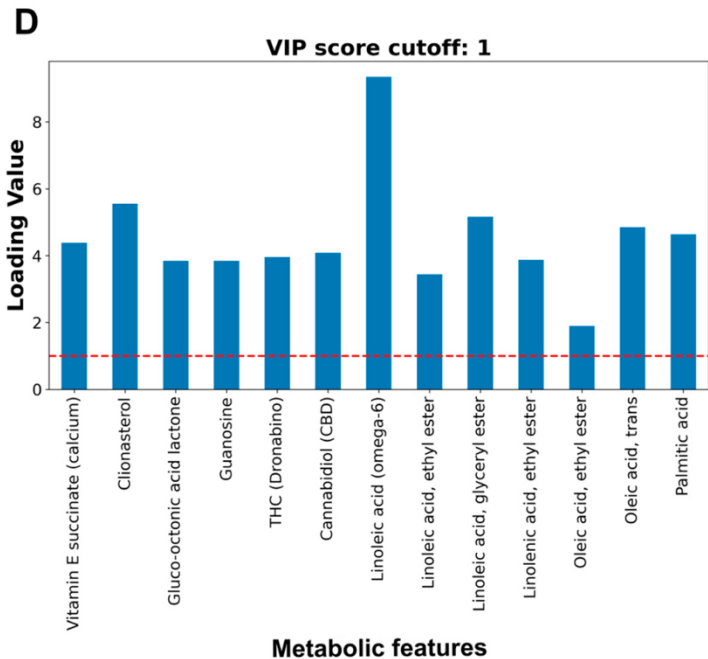


Table 3. Elastase inhibitory activity of the selected compounds and their combination test.

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

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)

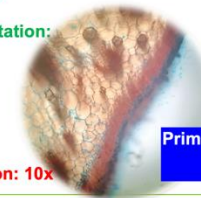
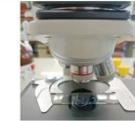
Organ: Blattstiel (Petioles)

Family: Begoniaceae

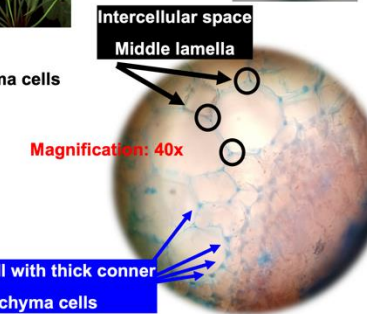
Objective: Primary cell wall from collenchyma cells

Reagent: DAS

Interpretation:



Magnification: 10x



Magnification: 40x

Primary cell wall with thick conner
of collenchyma cells

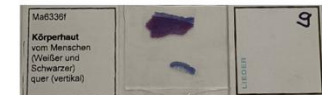
Briefing Lab – 7 (Day 10)

Human cells 2 – Heart, Bone and skin tissues

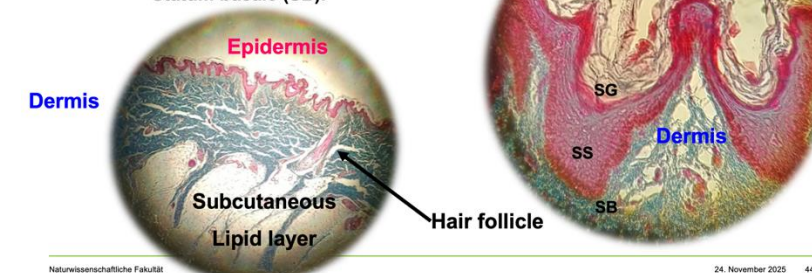


Microscopic sample 4

Sameple: Skin (Körperhaut)



Objective: Statum corneum (SC),
Statum granulosum (SG)
Statum spinosum (SS),
Statum basale (SB).



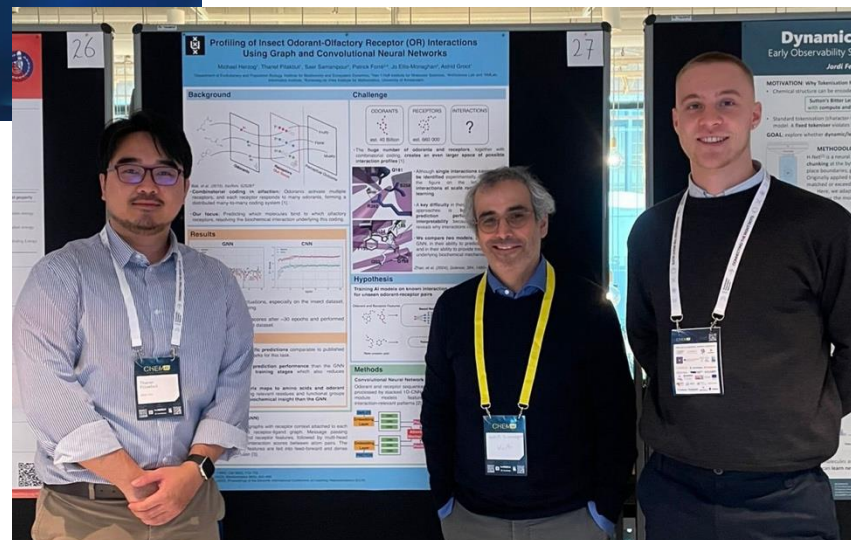
Student mentorship

CHEM^{AI} 2025
AI-powered chemical and material innovations

Entering the fifth paradigm
for chemistry


09:00–18:00
November 21, 2025

Program 2025



Future research plan - Thailand

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A Comprehensive Resource for AI-Driven Drug Discovery

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1,234
Medicinal Plants

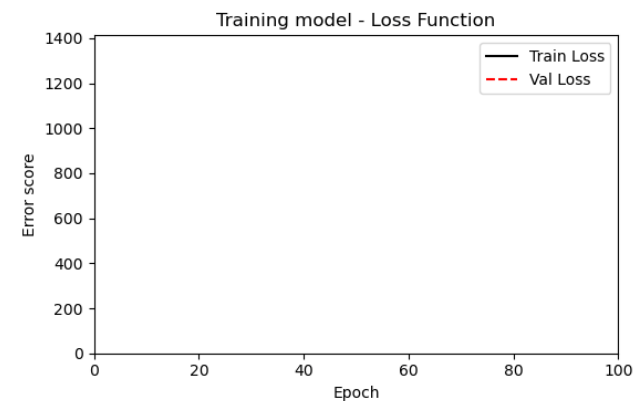
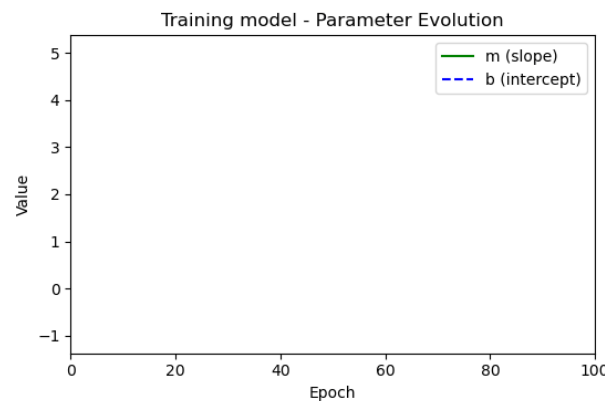
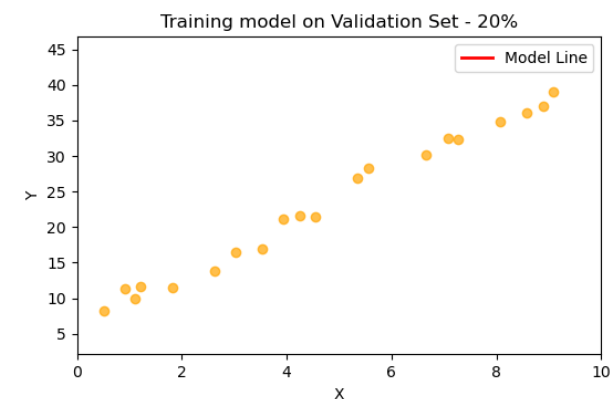
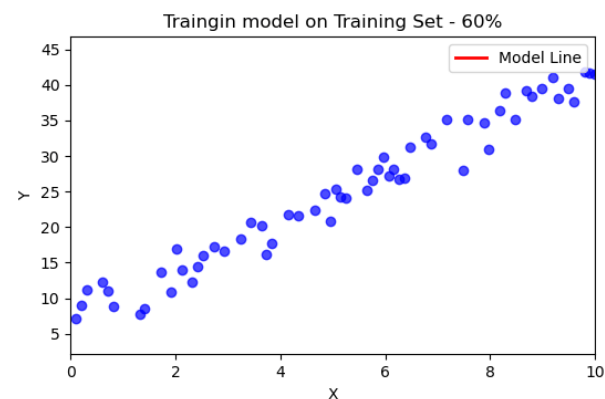
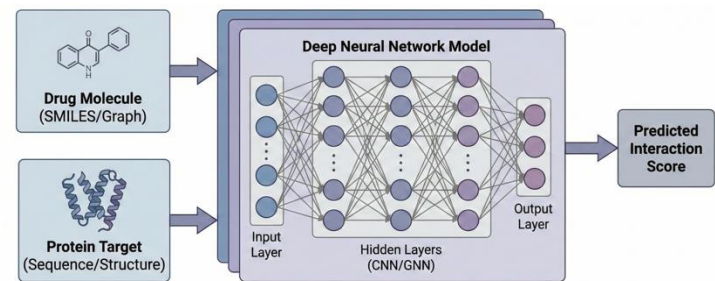
5,678
Bioactive Molecules

890
Activities

Empowering AI-Driven Drug Discovery

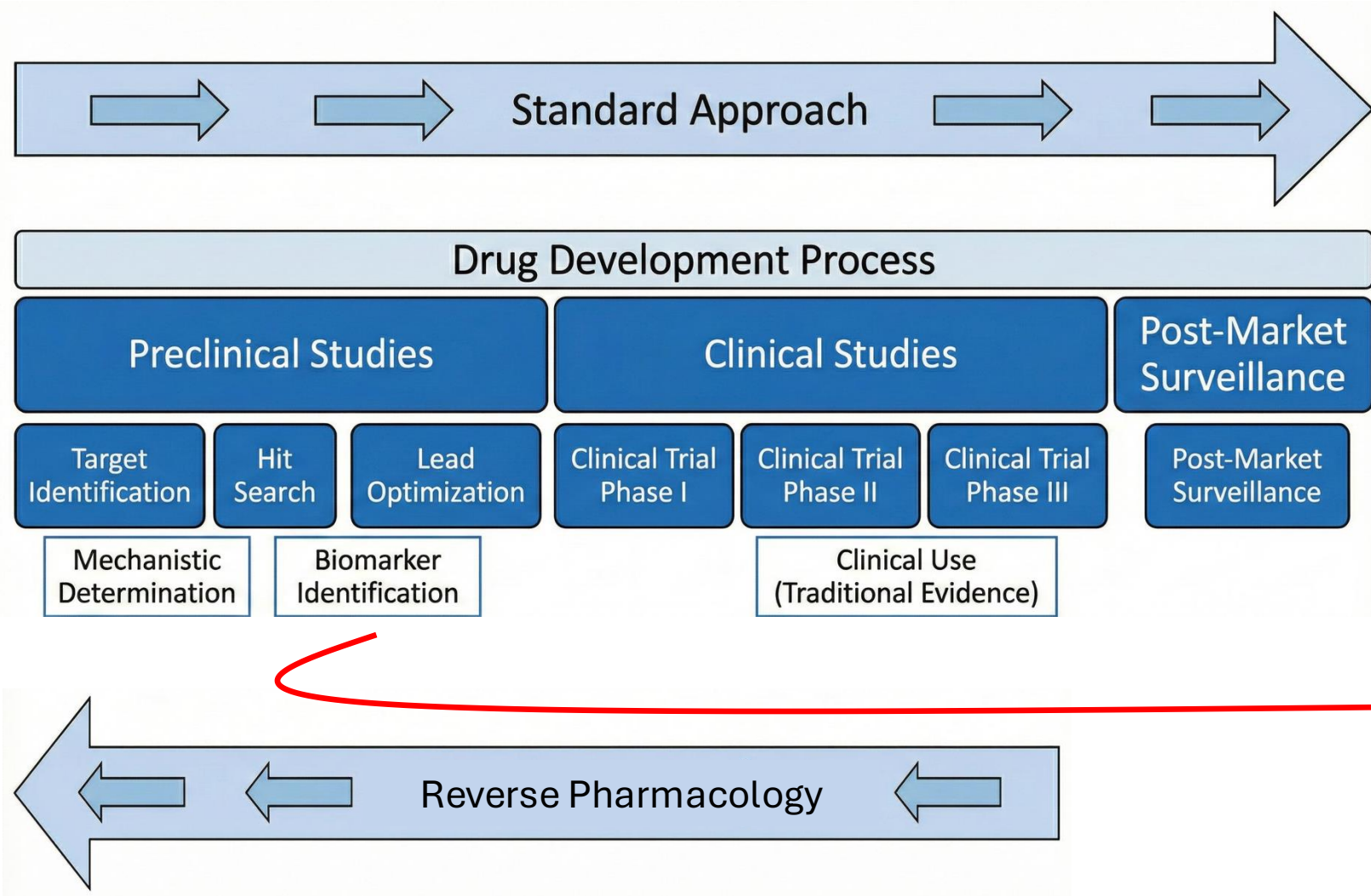
The Thai Herbal Medicine Database bridges traditional knowledge with modern artificial intelligence, providing structured data for training machine learning models in drug discovery. By systematically cataloging Thai medicinal plants, bioactive molecules, and biological activities, we transform centuries of herbal wisdom into machine-readable formats. This enables AI models to identify patterns, predict molecular interactions, and suggest novel drug candidates. Our comprehensive annotations of plant-compound-activity relationships address data scarcity in natural product research, accelerating virtual screening and reducing experimental costs while discovering safer, more effective therapeutics.

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Future research plan - Thailand

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Special Issue
Plant Natural Products: From
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