Job interview for lecturer position

Thanet Pitakbut, Dr. rer. nat

Special Issue Advertisement

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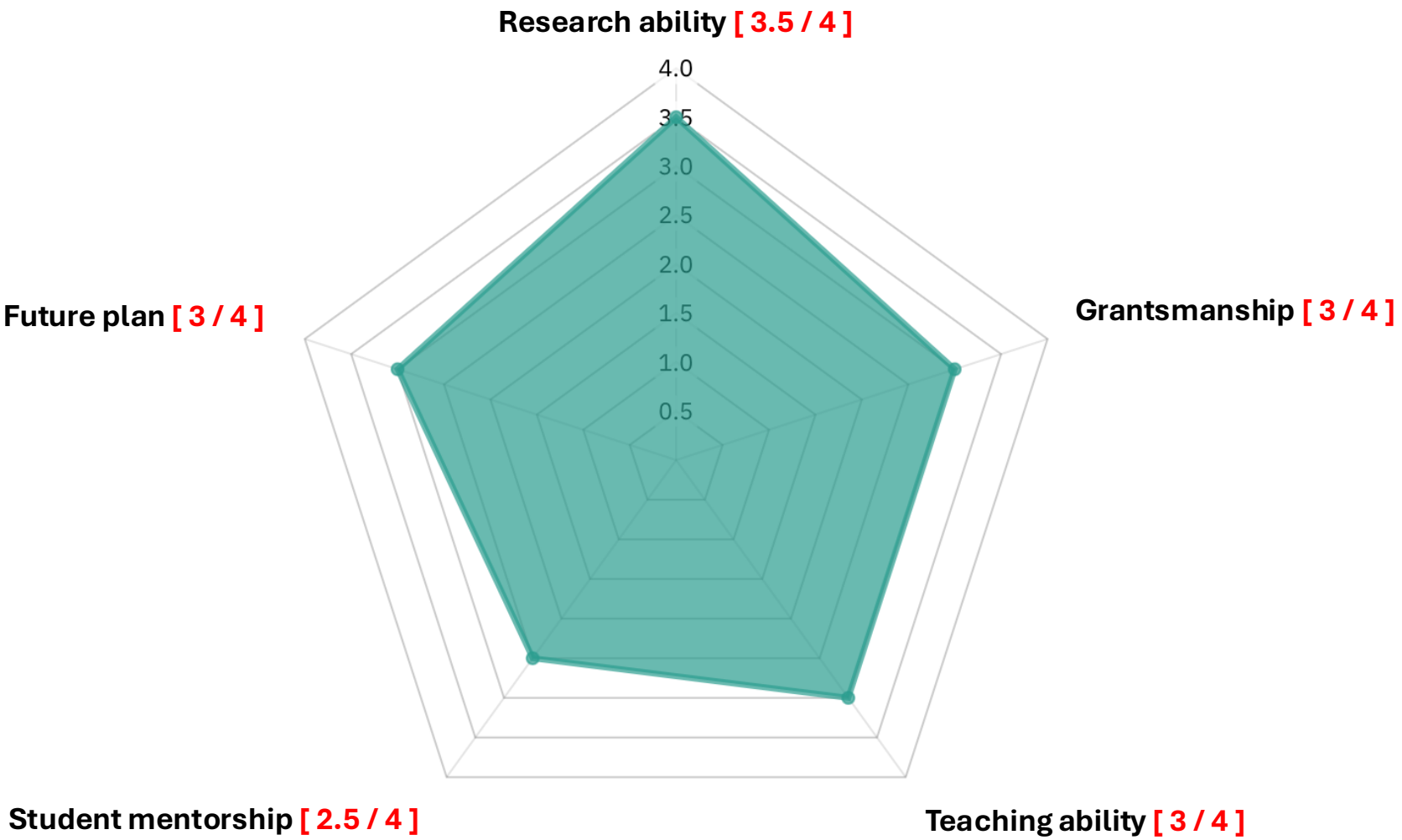
Basic information

- **Name:** Thanet Pitakbut

- **Education:** BSc (Thai Traditional Medicine), PSU, Thailand
  MPharm, PSU, Thailand
  Dr rer nat, TU Dortmund, Germany

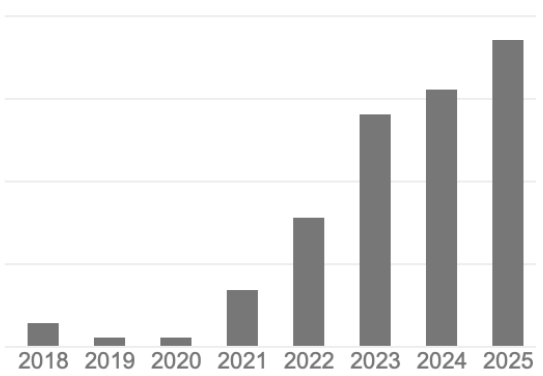
- **Training:** Postdoc, Pharmaceutical Biology, FAU, Germany
  Postdoc, Molecular & Material Design TechHub, UvA, Netherlands

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

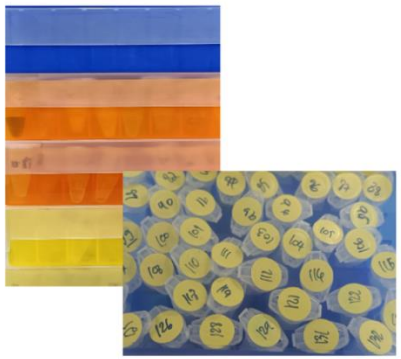
Utilizing machine learning-based QSAR model to overcome standalone consensus docking limitation in beta-lactamase inhibitors screening: a proof-of-concept study

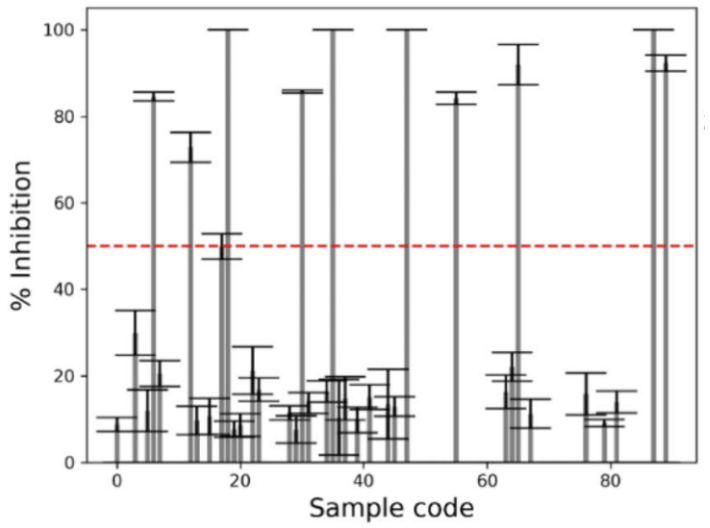
Research | Open access | Published: 20 December 2024

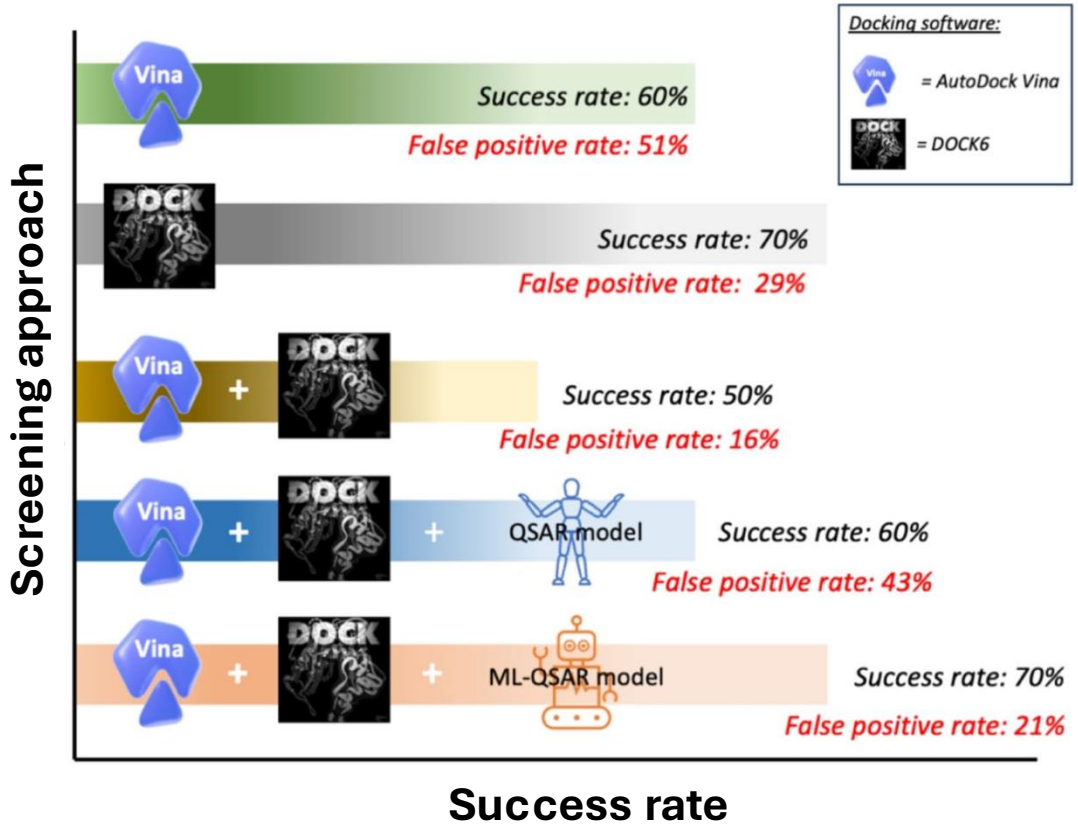
Volume 18, article number 249, (2024) Cite this article

BMC Chemistry

Aims and scope →







FARM BIO MOL

FAU-PhaRMaceutical Biology BIoactive MOLecules Library

Research ability – Highlight (2)

foods

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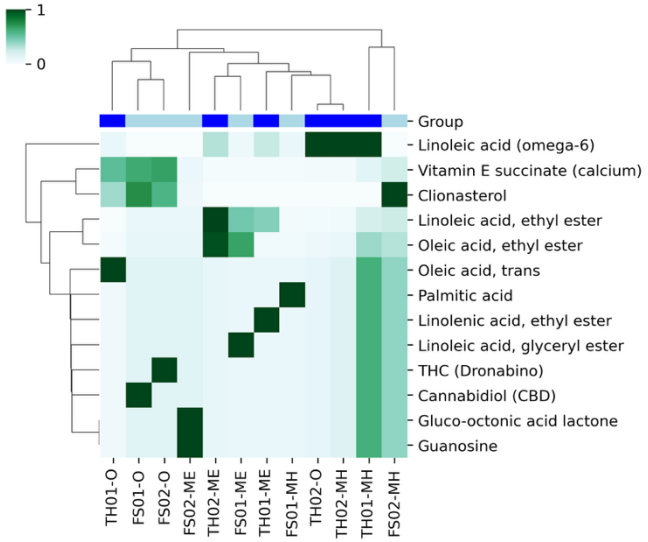
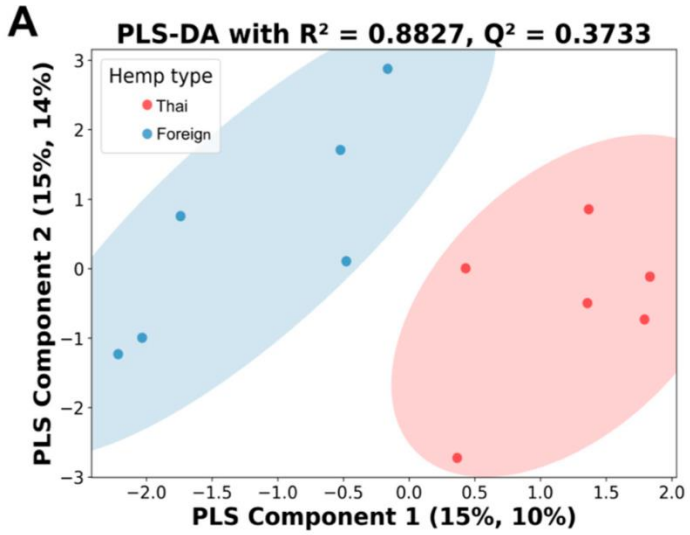
Article

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





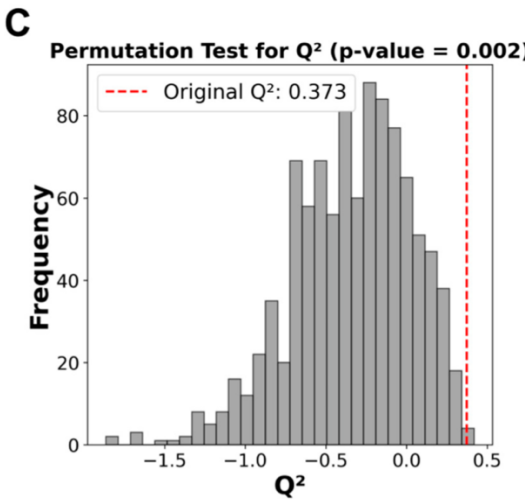
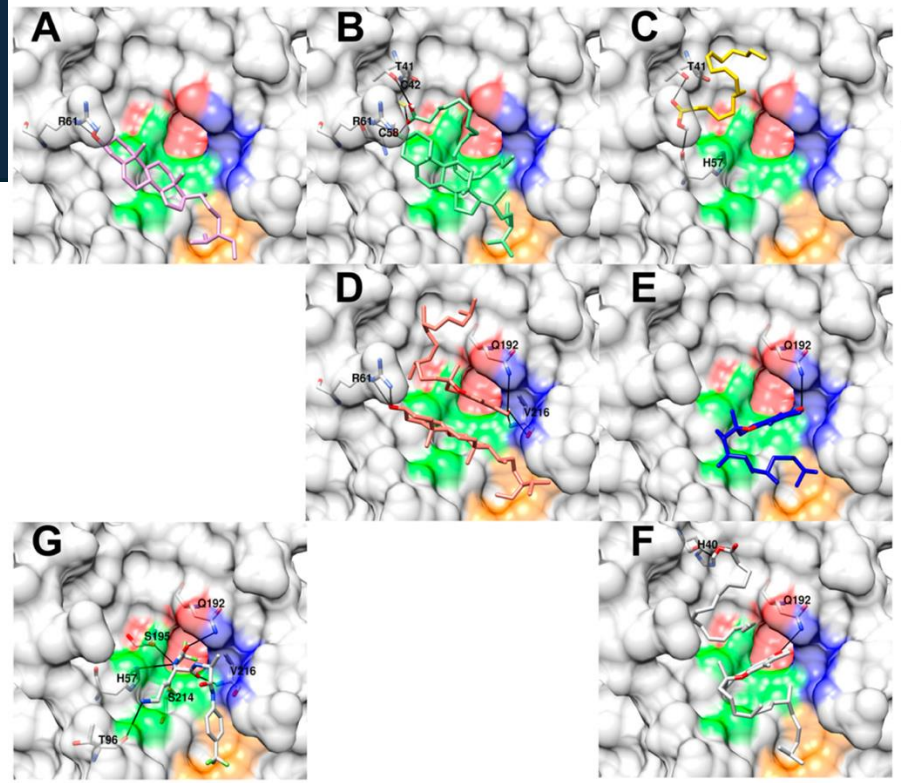


Table 1. Chemical composition of hemp seed oils and extracts.

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	-	-	-	-
(±)-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-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	-	-
glyceryl-linoleate	-	-	8.03	-	-	-	-	-	15.12 *	-
β-Monolinolein	-	3.78	-	-	-	2.09	-	-	-	-
Nonanoic acid, 9-(3-hexenylidenecyclopropylidene)-, 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
Clionasterol	15.35	6.66	2.75	1.53	1.44	1.55	29.07 *	5.67	3.80	22.32 *
(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

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

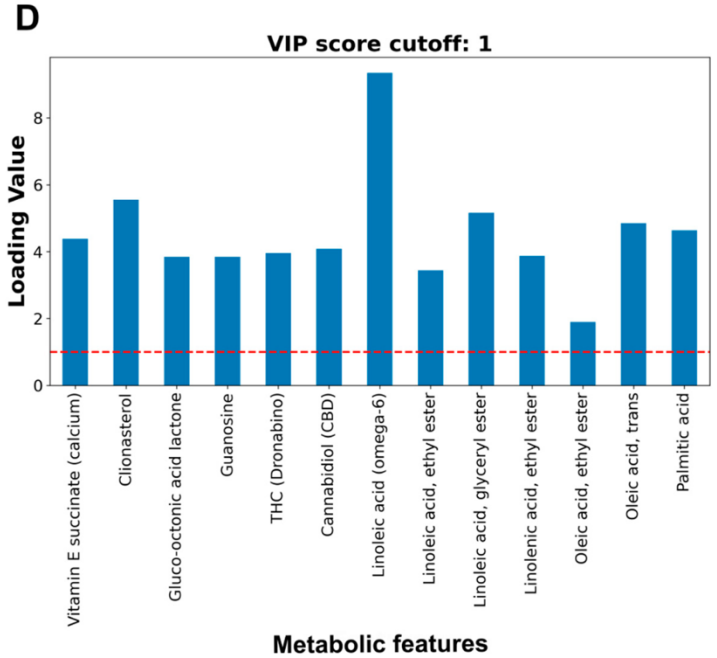


Table 3. Elastase inhibitory activity of the selected compounds and their combination test.

	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

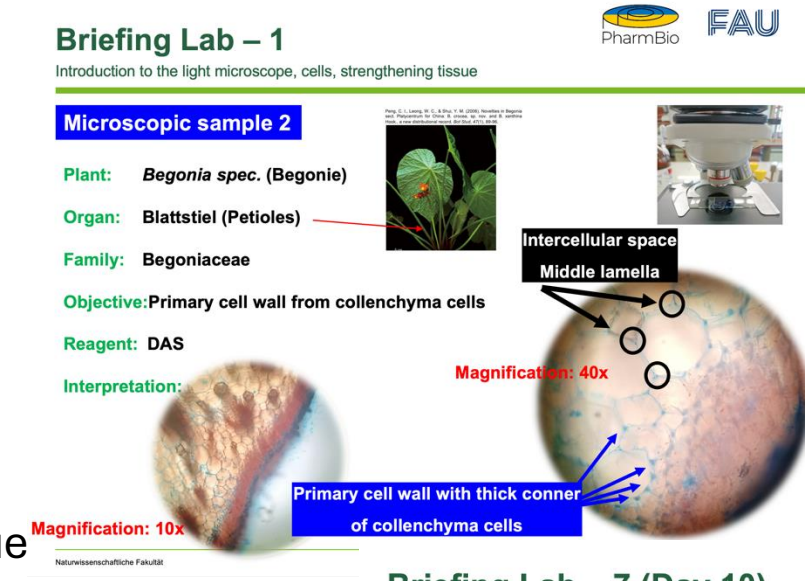
- ***Successful funding***

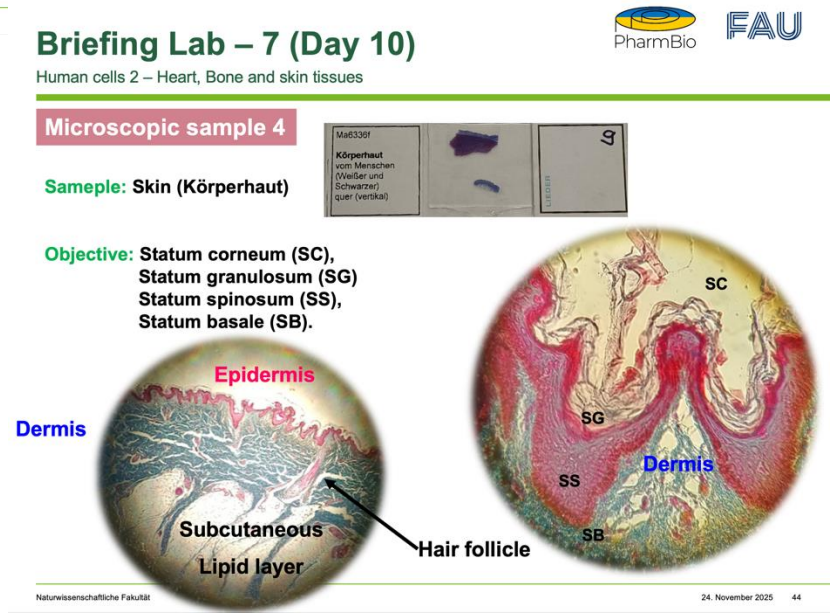
➢ DAAD	Doctoral study	
➢ Dr. Hertha and Helmut Schmauser Foundation	Postdoc Project	AI
➢ Gustav-Adolf and Erika Dornhecker Foundation	Postdoc Travel	AI
➢ Bavarian University Center for China (BayCHINA)	Postdoc Travel	AI

- ***Unsuccessful funding***

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

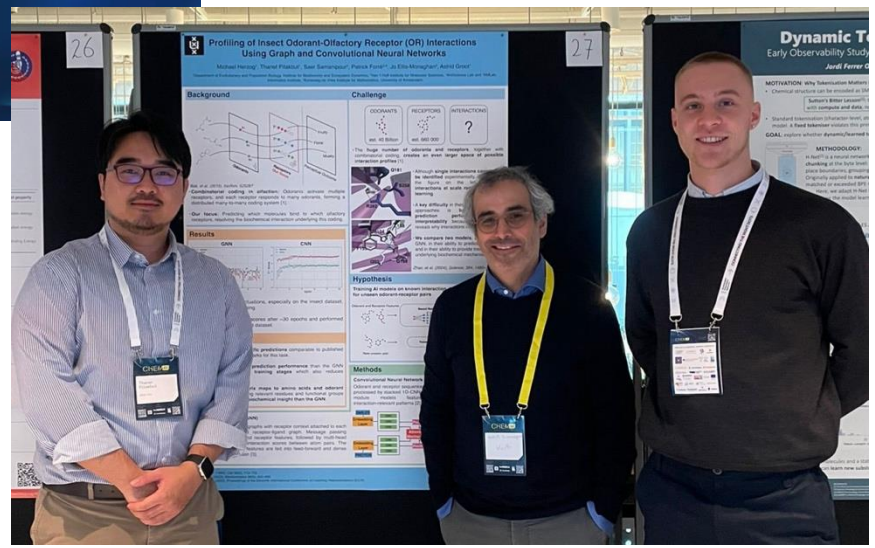
Teaching ability



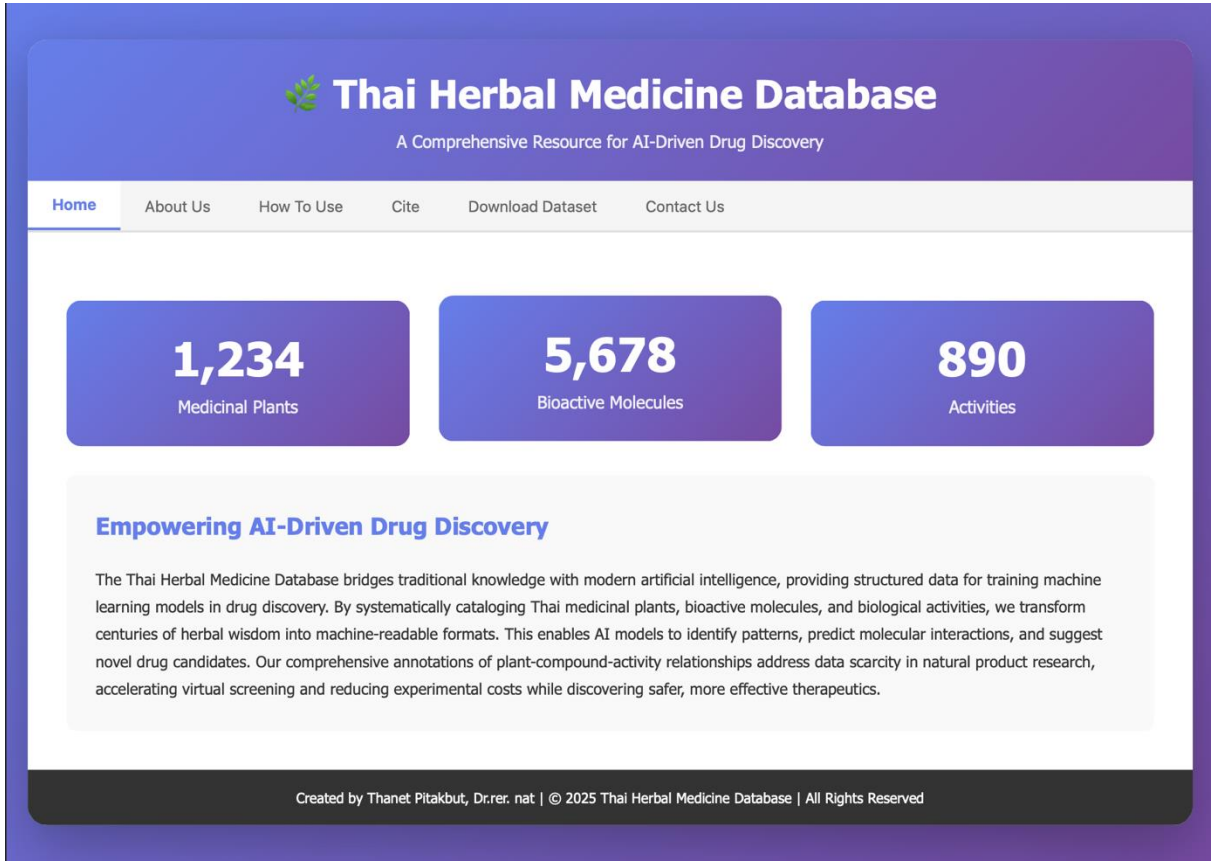


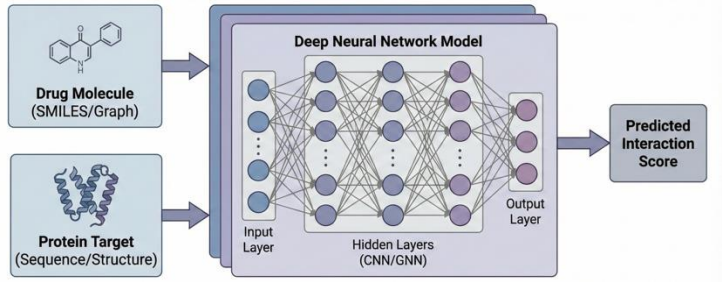
Day 1: Introduction to light microscopy, cells, and supporting tissue
Day 2: Root, absorptive tissue, epidermal tissue
Day 3: Leaf, elimination tissue
Day 4: Conducting tissue
Day 5: Shoot axis, epidermal tissue
Day 6: Flowering
Day 7: Fruit, seed, cell inclusions
Day 8: The cell — forms of organization (prokaryotes vs eukaryotes)
Day 9: Human biology — animal cells and tissues, Part 1
Day 10: Human biology — animal cells and tissues, Part 2

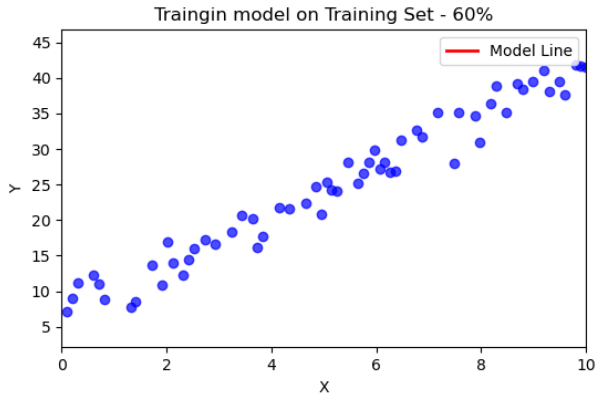
Student mentorship

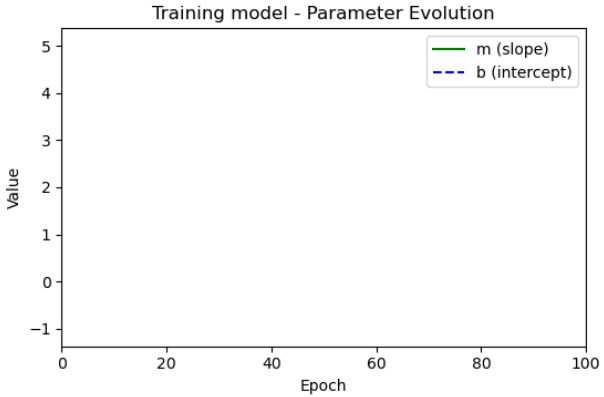


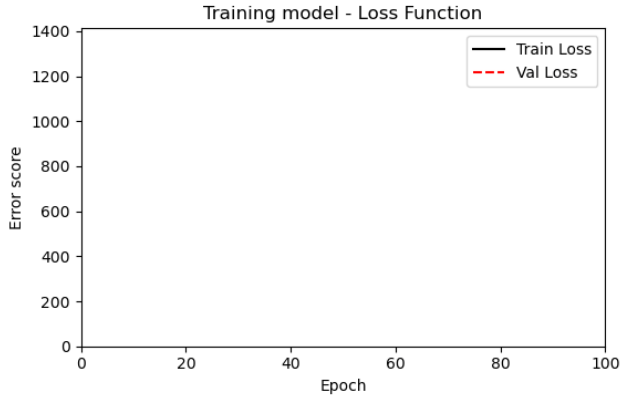
Future research plan - Thailand











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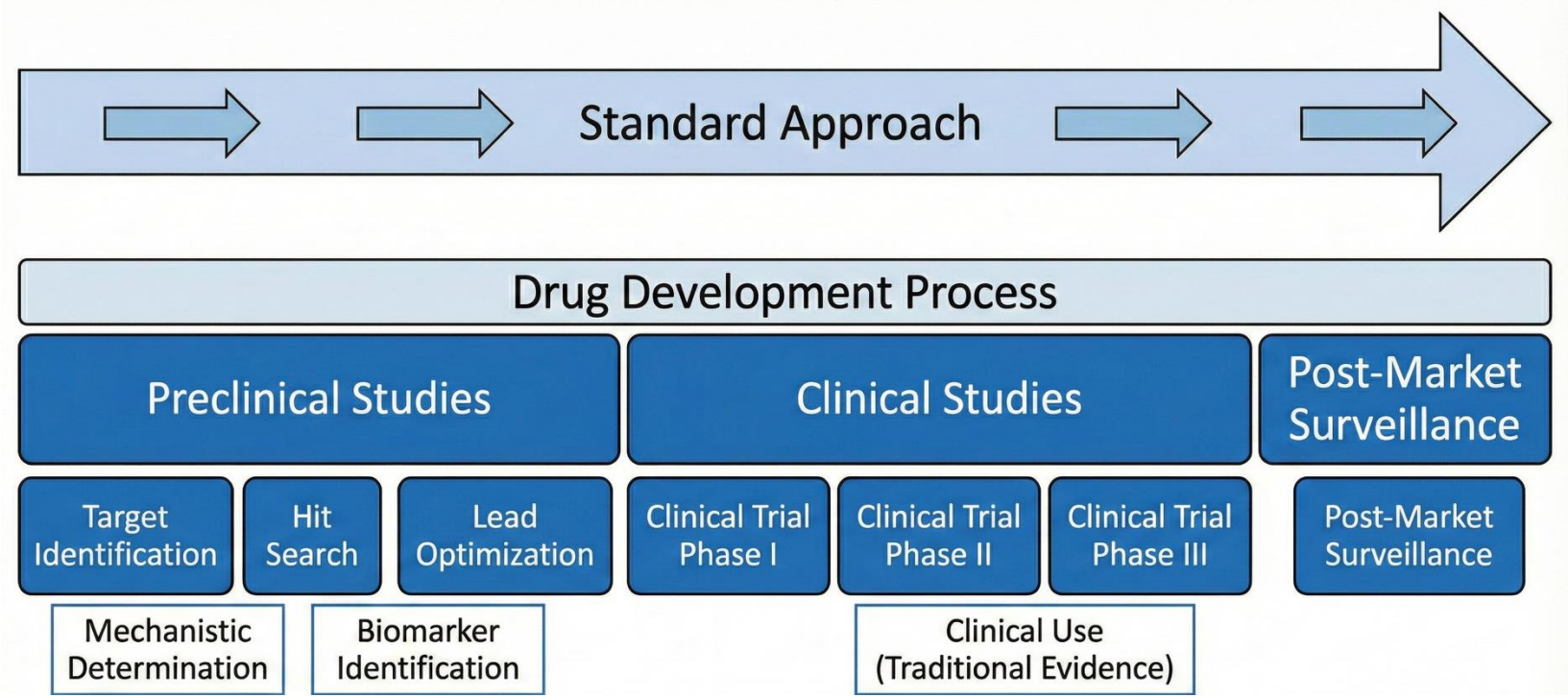

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Thank you for the opportunity