

張芳榮 特聘教授/榮譽博士

Distinguished Prof. Dr. Dr. h.c. mult. Fang-Rong Chang
Pharmacognosy & Graduate Institute of Natural Products (GINP),
College of Pharmacy, Kaohsiung Medical University (KMU),
Taiwan

Honorary Doctor of Pharmacy,
Faculty of Pharmacy, Uppsala University (UU), Sweden

Doctor Honoris Causa,
Faculty of Pharmacy, University of Szeged (SZET),
Hungary

Szent-Györgyi International Mentor,
National Academy of Scientist Education, Hungary

Adjunct Professor,
Department of Marine Biotechnology and Resources,
National Sun Yat-sen University (NSYSU), Taiwan

Managing Supervisor
Edu-Connect Southeast Asia Association, Taiwan



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Education

<i>Institution & Location</i>	<i>Field of Study</i>	<i>Degree</i>	<i>Year Conferred</i>
Chung-Shan Medical University, Taiwan	Nutrition	B.S.	1984/09 - 1988/06
Kaohsiung Medical University, Taiwan	Pharmacognosy	M.S.	1990/09 - 1991/08
Kaohsiung Medical University, Taiwan	Pharmacognosy	Ph. D.	1991/09 - 1995/06
University of North Carolina at Chapel Hill, USA	Natural Products & Medicinal Chemistry	Post Dr. Scholar	1999/07 - 1999/09 2001/07 - 2001/12
Okayama University of Science, Japan	Transgenic Plant Assay related to estrogenic receptors	Post Dr. Scholar	2004/07 - 2004/09
Uppsala University, Sweden	Faculty of Pharmacy	Honorary Doctor of Pharmacy	2018/01/26
University of Szeged, Hungary	Faculty of Pharmacy	Doctor Honoris Causa	2018/11/10

CURRENT APPOINTMENT AND EXPERIENCES

2021/06 - now	Member of Academic Council, International Congress of Oriental Medicine (ICOM)
2020/03 - now	Managing Supervisor, Edu-Connect Southeast Asia Association, Taiwan.
2020/02 - now	Distinguished Professor, KMU.
2020/02 - now	Vice CEO, Drug Development and Value Creation Research, KMU.

2019/03 - now	Szent-Györgyi International Mentor, Szeged Scientists Academy, Foundation for the Future of Biomedical Sciences in Szeged, Hungary.
2020/08 – 2021/08	Vice President for Industry-Academic Collaboration, KMU.
2019/10 – 2022/12	President, The Society of Chinese Natural Medicine (SCNM), Taiwan.
2018/02 - 2020/01	Director, National Research Institute of Chinese Medicine (NRICM), Ministry of Health and Welfare, Taiwan.
2005/08 - now	Professor, Pharmacognosy and Graduate Institute of Natural Products, KMU.
2013/08 - 2018/01	Vice Dean, Office of Global Affairs, KMU.
2012/08 - 2013/07	Head, Division of Graduate Academic Affairs, KMU.
2010/08~ 6 times	Visiting Scholar, Uppsala University, Sweden.
2007/12	Visiting Scholar, Okayama University of Science, Tokushima Bunri University, Chiba University of Science.
2006/08 - 2012/07	Director, Graduate Institute of Natural Products, KMU
2005/08 - 2006/07	R&D leader, College of Pharmacy, KMU
2002/08 - 2005/07	Associate Professor, Pharmacognosy and GINP, KMU
1998/08 - 2002/07	Assistant Professor, Pharmacognosy and GINP, KMU
1994/05 - 1998/07	Teaching Assistant and Instructor, Pharmacognosy Lab, Faculty of Pharmacy, KMU

RESEARCH INTERESTS

Pharmacognosy, Natural Products Chemistry, Medicinal Chemistry, Transgenic Plant (Arabidopsis) Reporter Assay (Cross kingdom Assay), Genetic and Epigenetic Modulation for Fungal Secondary Metabolites, Cosmetic API, Functional Food, Traditional Chinese (Herbal) Medicine, and New Drug Development

PUBLICATION AND APPLICATION

More than 415 research articles in SCI refereed journals; more than 600 oral or poster presentation; reviewer of more than 120 different international journals; editorial board members of 10 international journals; authorship of several book chapters; about 71 patents issued or in application; more than 39 industry-academic cooperation; more than 22 patent/tech transfer experiences (including one new drug R&D tech transfer). According to ORCID data and Scopus preview, total citation was accumulated to 12999 from 9791 articles, the H-index 60 (Records till 2023/03/06) (ORCID: <https://orcid.org/0000-0003-2549-4193>); In Google Scholar, total citation was accumulated to 17659, the H-index 72, i10 index 318; since 2018, citation 7654, the H-index 43, i10 index 239 (Records till 2023/03/06) (<https://scholar.google.com.tw/citations?hl=zh-TW&user=JFNX-osAAAAJ>) In ResearchGate, Research Interest Score 8,758, Citations 14,839; H-index 64 (Records till 2023/03/06) (<https://www.researchgate.net/profile/Fang-Rong-Chang>)

AWARDS AND HONORS

2023

1. Top 2% most influential scientists of Career-long Impact (Stanford University and Elsevier's science-wide author databases of standardized citation indicators, DOI: 10.17632/btchxktzyw.5)
2. Top 2% most Influential Scientists of 2021 Annual Impact (Stanford University and Elsevier's science-wide author databases of standardized citation indicators, DOI: 10.17632/btchxktzyw.5)

2022

1. Top 2% most influential scientists of Career-long Impact (Stanford University and Elsevier's science-wide author databases of standardized citation indicators, DOI: 10.17632/btchxktzyw.3)
2. Top 2% most Influential Scientists of 2020 Annual Impact (Stanford University and Elsevier's science-wide author databases of standardized citation indicators, DOI: 10.17632/btchxktzyw.3)

3. AD Scientific Index- World Scientist and University Rankings 2022- (Ranked #1 in the field of Pharmacy & Pharmaceutical Sciences (Natural Products Research) in Taiwan (No.13 in Asian-pacific region, No.113 worldwide); #9 in Medical and Health Sciences in Taiwan; No.1 in KMU and No. 61 of general fields in Taiwan.
(<https://www.adscientificindex.com/scientist.php?id=397209>)
4. Ranked #38 chemist of the Top Chemistry Scientists in Taiwan
(<https://research.com/scientists-rankings/chemistry/tw>)

2021

1. Member of Academic Council, International Congress of Oriental Medicine (ICOM)
2. 2021 Ministry of Science and Technology Subsidy for College and University Research Reward
3. 2020 Award of Excellent Paper, KMU.
4. 2020 Outstanding Research Award, KMU.
5. 2020 Award of Patent Approval, KMU.

2020

1. Distinguished Professor, KMU.
2. Vice President for Industry-Academic Collaboration, KMU.
3. Managing Supervisor, Edu-Connect Southeast Asia Association, Taiwan.
4. Vice CEO, Drug Development and Value Creation Research, KMU.

2019

1. Szent-Györgyi International Mentor, National Academy of Scientist Education, Hungary.
2. President, The Society of Chinese Natural Medicine (SCNM), Taiwan.
3. 2018 Annual Excellent Research Project Funding, KMU.
4. 2018 Award of Excellent Paper, KMU.
5. 2018 Outstanding Research Award, KMU.
6. 2018 Award of Patent Approval, KMU.

2018

1. Honorary Doctor in Pharmacy, Uppsala University, Sweden (2018/01/26).
2. Doctor Honoris Causa, University of Szeged, Hungary (2018/11/10).
3. Director, National Research Institute of Chinese Medicine (NRICM), Ministry of Health and Welfare, Taiwan (2018/02/01 to 2020/01/31).
4. 2017 Award of Excellent Paper, KMU.
5. 2017 Outstanding Research Award, KMU.
6. 2017 Award of Patent Approval, KMU.

2017

1. 2016 Award of Excellent Paper, KMU.
2. 2016 Outstanding Research Award, KMU.
3. 2016 Award of Patent Approval, KMU.
4. 2016 Award of Excellent Teaching Personnel, KMU.

2016

1. Outstanding Academic Alumnus, Pharmacy Education Foundation, College of Pharmacy, KMU.
2. 2015 Award of Excellent Paper, KMU.
3. 2015 Outstanding Research Award, KMU.
4. 2015 Award of Patent Approval, KMU.
5. 2015 Award of Excellent Teaching Personnel, KMU.

2015

1. The Faculty Gold Medal, Faculty of Pharmacy, University of Szeged, Hungary.
2. The 12th National Innovation Award, Institute for Biotechnology and Medicine, Industry & Research Center for Biotechnology and Medicine Policy, Taiwan.
3. The Advisor of the Winner of Young Researchers Workshop Award 2015 @ 63rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Products Research, Budapest, Hungary.
4. The Advisor of the Winner of 2nd Award in the Poster Presentation @ 2015 Nordic Natural

Product Conference, Visby, Sweden.

5. 2014 Award of Excellent Paper, KMU.
6. 2014 Outstanding Research Award, KMU.
7. 2014 Award of Patent Approval, KMU.
8. 2014 Award of Excellent Teaching Personnel, KMU.

2014

1. NSYSU & KMU Cooperation Research Excellent Scholar Award.
2. 2013 Outstanding Academic Alumnus, National Feng-Shan Senior High School, Taiwan.
3. 2 x 2013 Award of Excellent Paper, KMU.
4. 2013 Outstanding Research Award, KMU.
5. 2013 Outstanding Industrial-Academic Cooperation Award, KMU.
6. 2013 Award of Patent Approval, KMU.
7. 2013 Annual Excellent Technique Transfer Award, KMU.
8. 2013 Award of Excellent Teaching Personnel, KMU.

2013

1. 2012 Award of Excellent Paper, KMU.
2. 2012 Annual excellent research project funding, KMU.
3. 2012 Outstanding Industrial-Academic Cooperation Award, KMU.
4. 2012 Award of Patent Approval, KMU.
5. 2012 Annual Excellent Technique Transfer Award, KMU.
6. 2012 Award of Excellent Teaching personnel, KMU.

2012

1. The Advisor of the Winner of 9th National Innovation Award, Institute for Biotechnology and Medicine, Industry & Research Center for Biotechnology and Medicine Policy, Taiwan.
2. The Faculty Gold Medal, Faculty of Pharmacy, University of Szeged, Hungary.
3. 2 x 2011 Award of Excellent Paper, KMU.
4. 2011 Award of Patent Approval, KMU.
5. 2011 Annual Excellent Technique Transfer Award, KMU.

2011

1. The Advisor of the Winner (Student) of First Award in Natural Science of 2011 Taiwan Tech Trek (Migrant Bird) Program, National Science Council, Taiwan.
2. 2010 Outstanding Industrial-Academic Cooperation Award, KMU.
3. 2010 Award of Patent Approval, KMU.
4. 2010 Annual Excellent Technique Transfer Award, KMU.

2010

1. 2009 Outstanding Research Award, KMU.
2. 2009 Award of Patent Approval, KMU.
3. 2009 Annual Excellent Research Project Funding, KMU.

Others

2014 to now: Outside Committee Member of Ph.D. Dissertation of Putra Malaysia University.

2012 to now: Reviewer for Enterprise Residency, Pingtung Agricultural Biotechnology Park (PABP), Taiwan.

2010 to now: The Advisory Board, Office for Operation of Industry-University Cooperation, KMU.

2010 to now: Rewarded special talent, National Science Council (Ministry of Science and Technology).

2009 to now: Reviewer, SBIR Project of Ministry of Economic Affairs, Taiwan.

2008 to now: Project Reviewer, Department of Chinese Medicine and Pharmacy, MOHW, Taiwan.

2008 to now: Member of Primary reviewer and/or Secondary Reviewer Board, Ministry of Science and Technology, Taiwan.

2006 to now: The Organizer of the Global Pharmacy Courses held by KMU and UU.

2006: Incubation Project Award of Excellent Researchers, National Science Council, Taiwan.

2005~2009, 2018: Invited Panel Member, Consortium for Globalization of Chinese Medicine (CGCM).

2004: Best Young Researcher Award, KMU.

2001 to now: Project Stipend PI, National Science Council (Ministry of Science and Technology), Taiwan.

2000, 1998, 1997: First Grade Award, National Science Council, Taiwan.

1998: Outstanding Academic Alumnus, Chung-Shan Medical University, Taiwan.

1995: Second Grade Award, National Science Council, Taiwan.

EDITORIAL BOARD MEMBERSHIP

1.	<i>Journal of Food and Drug Analysis</i> (Associate Editor, Impact factor: 6.157)	2.	<i>Frontiers in Pharmacology, Ethnopharmacology</i> (Associate Editor, Impact factor: 5.998)
3.	<i>Food Science and Human Wellness</i> (Impact factor: 8.022)		

ASSOCIATION ATTENDED

Life Member & President ~now	The Society of Chinese Natural Medicine
Life Member	The Pharmaceutical Society of Taiwan
2012~now, Member	American Society of Pharmacognosy
2008~now, Member	American Chemical Society, Member
2005~now, Member	Consortium for Globalization of Chinese Medicine (CGCM)

JOURNAL REVIEWER

1.	<i>Advances in Medicine</i>	2.	<i>Advances in Pharmacological Sciences</i>
3.	<i>African Journal of Agricultural Research</i>	4.	<i>African Journal of Microbiology Research</i>
5.	<i>African Journal of Microbiology Research</i>	6.	<i>African Journal of Pharmacy and Pharmacology</i>
7.	<i>Antiviral Research</i>	8.	<i>Advanced Synthesis & Catalysis</i>
9.	<i>Arabian Journal of Chemistry</i>	10.	<i>Archives of Toxicology</i>
11.	<i>BBA - General Subjects</i>	12.	<i>Biochemical Engineering Journal</i>
13.	<i>Biology</i>	14.	<i>Biological & Pharmaceutical Bulletin (Japan)</i>
15.	<i>Biomass and Bioenergy</i>	16.	<i>Biomedical Chromatography</i>
17.	<i>Biomedical Journal</i>	18.	<i>Biochemistry & Physiology</i>
19.	<i>BioMed Research International</i>	20.	<i>BioMed Research International</i>
21.	<i>Bioorganic Chemistry</i>	22.	<i>Biochemical Engineering Journal</i>
23.	<i>Bioorganic & Medicinal Chemistry</i>	24.	<i>Bioorganic & Medicinal Chemistry Letters</i>
25.	<i>Bioresource Technology</i>	26.	<i>BMC Complementary and Alternative Medicine</i>
27.	<i>Botanical Studies (Formerly "Botanical Bulletin of Academia Sinica")</i>	28.	<i>British Journal of Applied Science & Technology</i>
29.	<i>Carbohydrate Research</i>	30.	<i>Cancer Letters</i>
31.	<i>Cell Biochemistry & Function</i>	32.	<i>Chemistry and Biodiversity</i>
33.	<i>Chemical Engineering and Processing: Process Intensification</i>	34.	<i>Chemical Engineering Research and Design</i>
35.	<i>ChemPlusChem</i>	36.	<i>Chinese Journal of Medicine</i>

37.	<i>Current Pharmaceutical Design</i>	38.	<i>Current Nutrition & Food Science</i>
39.	<i>Experimental Cell Research</i>	40.	<i>European Food Research and Technology</i>
41.	<i>Evidence-Based Complementary and Alternative Medicine</i>	42.	<i>European Journal of Organic Chemistry</i>
43.	<i>Fitoterapia</i>	44.	<i>Food and Bioproducts Processing</i>
45.	<i>Food and Chemical Toxicology</i>	46.	<i>Food Chemistry</i>
47.	<i>Food Research International</i>	48.	<i>Free Radical Biology and Medicine</i>
49.	<i>Frontiers in Ethnopharmacology</i>	50.	<i>Frontiers in Pharmacology</i>
51.	<i>Industrial Crops and Products</i>	52.	<i>Israel Journal of Chemistry</i>
53.	<i>Inflammation Research</i>	54.	<i>Innovative Food Science and Emerging Technologies</i>
55.	<i>Integrative Cancer Therapies</i>	56.	<i>International Journal of Biomedical Science</i>
57.	<i>International Journal of Molecular Science</i>	58.	<i>International Scholarly Research Network</i>
59.	<i>ISRN Pharmaceutics</i>	60.	<i>Journal Agricultural and Food Chemistry</i>
61.	<i>Journal of Chemistry,</i>	62.	<i>Journal of Chromatography B</i>
63.	<i>Journal of Chinese Medicine</i>	64.	<i>Journal of Diabetes Investigation</i>
65.	<i>Journal of Ethnopharmacology</i>	66.	<i>Journal of Food and Drug Analysis,</i>
67.	<i>Journal of Integrative Medicine</i>	68.	<i>Journal of Medicinal Plants Research</i>
69.	<i>Journal of Microbiology Research (AJMR)</i>	70.	<i>Journal of Natural Products</i>
71.	<i>Journal of Organic Chemistry</i>	72.	<i>Journal of Pharmaceutical and Biomedical Analysis</i>
73.	<i>Journal of Pharmacognosy and Phytotherapy</i>	74.	<i>Journal of Pharmacy and Pharmacology</i>
75.	<i>Journal of Separation Science</i>	76.	<i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i>
77.	<i>Journal of Toxicology</i>	78.	<i>Journal of the Taiwan Institute of Chemical Engineers</i>
79.	<i>Journal of Traditional and Complementary Medicine</i>	80.	<i>Journal of Zhejiang University-SCIENCE B</i>
81.	<i>Marine Drugs</i>	82.	<i>Mini Reviews in Organic Chemistry</i>
83.	<i>Mini-Reviews in Medicinal Chemistry</i>	84.	<i>Molecules</i>
85.	<i>Molecular Medicine Reports</i>	86.	<i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i>
87.	<i>Nanoscale</i>	88.	<i>Natural Product Communications</i>
89.	<i>New Journal of Chemistry</i>	90.	<i>Nutrition Research</i>
91.	<i>Open Journal of Medicinal Chemistry</i>	92.	<i>Oriental Pharmacy and Experimental Medicine</i>
93.	<i>Oxidative Medicine and Cellular Longevity</i>	94.	<i>PLoS ONE</i>
95.	<i>Phytochemical Analysis</i>	96.	<i>Phytochemistry</i>
97.	<i>Phytochemistry Letters</i>	98.	<i>PhytoMedicine</i>
99.	<i>Phytotherapy Research</i>	100.	<i>Planta Medica</i>
101.	<i>Process Biochemistry</i>	102.	<i>RSC advances</i>
103.	<i>Separation and Purification Technology</i>	104.	<i>Science Journal of Microbiology</i>
105.	<i>Science Reports</i>	106.	<i>SpringerPlus</i>

107.	<i>Studies in Natural Products Chemistry</i>	108.	<i>Synthetic Communications</i>
109.	<i>Symmetry</i>	110.	<i>Tetrahedron</i>
111.	<i>Tetrahedron Letters</i>	112.	<i>The Kaohsiung Journal of Medical Sciences</i>
113.	<i>The Natural Products Journal</i>	114.	<i>The Scientific World Journal</i>
115.	<i>Viruses</i>	116.	<i>Head & Neck</i>
117.	<i>ChemBioChem</i>	118.	<i>Complementary Therapies in Medicine</i>
119.	<i>Food & Function</i>	120.	<i>International Journal of Biological Macromolecules</i>
121.	<i>International Journal of Molecular Sciences</i>	122.	<i>Journal of Functional Foods</i>
123.	<i>Journal of the Science of Food and Agriculture</i>	124.	<i>Molbank</i>
125.	<i>Nutrients</i>	126.	<i>Oncotarget</i>
127.	<i>Scientific Reports</i>	128.	<i>Archives of Pharmaceutical Sciences Ain Shams University (APS)</i>

JOURNAL PUBLICATION LIST

1. Yang-Chang Wu*, Chang-Yih Duh, **Fang-Rong Chang**, Gwo-Yuan Chang, Shang-Kwei Wang, Jer-Jang Chang, Donald R. McPhail, Andrew T. McPhail, and Kuo-Hsiung Lee, **1991**. "The Crystal Structure and Cytotoxicity of Goniiodiol-7-Monoacetate from *Goniothalamus amuyon*." *J. Nat. Prod.*, 54, 1077–1081. (SCI)
2. Yang-Chang Wu*, **Fang-Rong Chang**, Chang-Yih Duh, and Shang-Kwei Wang, **1992**. "Annocticuin and Isoannocticuin: Two New Cytotoxic Acetogenins from *Annona reticulata*." *Heterocycles*, 34, 667–674. (SCI)
3. Yang-Chang Wu*, **Fang-Rong Chang**, Chang-Yih Duh, Shang-Kwei Wang, and Tian-Shung Wu, **1992**. "Cytotoxic Styrylpyrones of *Goniothalamus amuyon*." *Phytochemistry*, 31, 2851–2853. (SCI)
4. **Fang-Rong Chang**, Yang-Chang Wu*, Chang-Yih Duh, and Shang-Kwei Wang, **1993**. "Studies on the acetogenins of formosan annonaceous plants, II. Cytotoxic acetogenins from *Annona Reticulata*" *J. Nat. Prod.*, 56, 1688–1694. (SCI)
5. Yang-Chang Wu*, **Fang-Rong Chang**, Keh-Shaw Chen, Feng-Nien Ko, and Che-Ming Teng, **1994**. "Bioactive Alkaloids from *Annona squamosa*." *Chin. Pharm. J.*, 46, 439–446.
6. Yang-Chang Wu*, **Fang-Rong Chang**, Sz-Chi Liang, and Maw-Rong Lee, **1994**. "Diepoxymontin, A Novel Acetogonin from *Annona montana*." *Heterocycles*, 38, 1475–1478. (SCI)
7. Yang-Chang Wu* and **Fang-Rong Chang**, **1995**. "The Phytochemistry of Annonaceous Acetogenins-Chemical Structures and Biological Activities", *Chemistry (The Chinese Chem. Soc., Taiwan China)*, 53, 76–93.
8. **Fang-Rong Chang**, Keh-Shaw Chen, Feng-Nien Ko, Che-Ming Teng and Yang-Chang Wu*, **1995**. "Bioactive Alkaloids from *Annona reticulata*." *Chin. Pharm. J.*, 47, 483–491.
9. Yang-Chang Wu*, Yu-Chun Hung, **Fang-Rong Chang**, Mark Cosentino, Hui-Kang Wang, and Kuo-Hsiung Lee, **1996**. "Identification of *ent*-16 β ,17-Dihydroxykauran-19-oic Acid as an Anti-HIV Principle and Isolation of Related New Kaurane Diterpenoids from *Annona squamosa*." *J. Nat. Prod.*, 59, 635–637. (SCI)
10. Keh-Shaw Chen, **Fang-Rong Chang**, Ting-Ting Jong, and Yang-Chang Wu*, **1996**. "Two Novel Sesquiterpenes from *Neolitsea parvigemma*." *J. Nat. Prod.*, 59, 704–706. (SCI)
11. Yuan-Yng Chen, **Fang-Rong Chang**, and Yang-Chang Wu*, **1996**. "Isoquinoline Alkaloids and Lignans from *Rollinia mucosa*." *J. Nat. Prod.*, 59, 904–906. (SCI)
12. Yuan-Yng Chen, **Fang-Rong Chang**, Hsin-Fu Yen, and Yang-Chang Wu*, **1996**. "Epomusenins A and B, Two Novel Acetogenins from the Fruits of *Rollinia mucosa*." *Phytochemistry*, 42, 1081–1083. (SCI)
13. Yang-Chang Wu*, Yuan-Yng Chen, and **Fang-Rong Chang**, **1996**. "Chemical Constituents and Bioactivities of Formosan Annonaceous Plant, *Rollinia mucosa*." *Phytomedicine*, 3, Suppl. 1, 96. (SCI)

14. **Fang-Rong Chang**, Jia-Lin Wei, Che-Ming Teng, and Yang-Chang Wu*, 1996. "Antiplatelet Aggregation Constituents of *Annona purpurea*." *Phytomedicine*, 3, Suppl. 1, 213. (SCI)
15. Chung-Yi Chen, **Fang-Rong Chang**, and Yang-Chang Wu*, 1997. "The Constituents from the Stems of *Annona cherimola*." *J. Chin. Chem. Soc.*, 44, 313–319. (SCI)
16. Yang-Chang Wu*, Ya-Chieh Chao, **Fang-Rong Chang**, and Yuan-Yng Chen, 1997. "Alkaloids from *Cassytha filiformis*." *Phytochemistry*, 46, 181–184. (SCI)
17. Chung-Yi Chen, **Fang-Rong Chang**, and Yang-Chang Wu, 1997. "Cherimoline, a Novel Alkaloid from the Stems of *Annona cherimola*." *Tetrahedron Lett.*, 38, 6247–6248. (SCI)
18. Chung-Yi Chen, **Fang-Rong Chang**, and Yang-Chang Wu*, 1998. "Cherimonaine, a Novel Dimeric Amide from the Stems of *Annona cherimola*." *Tetrahedron Lett.*, 39, 407–410. (SCI)
19. Keh-Shaw Chen, **Fang-Rong Chang**, Yi-Chen Chia, Tian-Shung Wu, and Yang-Chang Wu*, 1998. "Chemical Constituents of *Neolitsea parvigemma* and *Neolitsea konishii*." *J. Chin. Chem. Soc.*, 45, 103–110. (SCI)
20. **Fang-Rong Chang**, Jien-Lin Chen, Yuan-Yng Chen, Feui-Fen Chiu, Ming-Jung Wu, and Yang-Chang Wu*, 1998. "Acetogenins from Seeds of *Annona reticulata*." *Phytochemistry*, 47, 1057–1061. (SCI)
21. **Fang-Rong Chang**, Pey-Yuh Yang, Jung-Yaw Lin, Kuo-Hsiung Lee, and Yang-Chang Wu*, 1998. "Bioactive Kaurane Diterpenoids from *Annona glabra*." *J. Nat. Prod.*, 61, 437–439. (SCI)
22. Yi-Chen Chia, **Fang-Rong Chang**, Chao-Ming Li, and Yang-Chang Wu*, 1998. "Protoberberine Alkaloids from *Fissistigma balansae*." *Phytochemistry*, 48, 367–369. (SCI)
23. **Fang-Rong Chang**, Ya-Chieh Chao, Che-Ming Teng, and Yang-Chang Wu*, 1998. "Chemical Constituents from *Cassytha filiformis* II." *J. Nat. Prod.*, 61, 863–866. (SCI)
24. Yi-Chen Chia, **Fang-Rong Chang**, and Yang-Chang Wu*, 1998. "Two *p*-Quinonoid Aporphine Alkaloids from *Fissistigma balansae*." *J. Nat. Prod.*, 61, 1430–1432. (SCI)
25. Yang-Chang Wu*, **Fang-Rong Chang**, Ya-Chieh Chao, and Che-Ming Teng, 1998. "Antiplatelet and Vasorelaxing Actions of Aporphinoids from *Cassytha filiformis*." *Phytother. Res.*, 12(Suppl. 1), S39–S41. (SCI)
26. **Fang-Rong Chang**, Jia-Lin Wei, Che-Ming Teng, and Yang-Chang Wu*, 1998. "Antiplatelet Aggregation Constituents of *Annona purpurea*." *J. Nat. Prod.*, 61, 1457–1461. (SCI)
27. Chung-Yi Chen, Tung-Ying Wu, **Fang-Rong Chang**, and Yang-Chang Wu*, 1998. "Lignans and Kauranes from the Stems of *Annona cherimola*." *J. Chin. Chem. Soc.*, 45, 629–634. (SCI)
28. Chung-Yi Chen, **Fang-Rong Chang**, and Yang-Chang Wu*, 1998. "Amides from stems of *Annona cherimola*." *Phytochemistry*, 49, 1443–1447. (SCI)
29. **Fang-Rong Chang**, Jia-Lin Wei, Che-Ming Teng, and Yang-Chang Wu*, 1998. "Two New 7-Dehydroaporphine Alkaloids and Antiplatelet Action Aporphines from the Leaves of *Annona purpurea*." *Phytochemistry*, 49, 2015–2018. (SCI)
30. Keh-Shaw Chen, **Fang-Rong Chang**, Michael Y.-N. Chiang, and Yang-Chang Wu*, 1999. "Oxidation Products of Zeylanidine." *J. Nat. Prod.*, 62, 622–625. (SCI)
31. Chung-Yi Chen, **Fang-Rong Chang**, and Yang-Chang Wu*, 1999. "Cheritamine, a New N-Fatty Acyl Tryamine and Other Constituents from the Stems of *Annona cherimola*." *J. Chin. Chem. Soc.*, 46, 77–86. (SCI)
32. Chung-Yi Chen, **Fang-Rong Chang**, Feui-Fen Chiu, Ming-Jung Wu, and Yang-Chang Wu*, 1999. "Aromin-A, a New Annonaceous Acetogenin from *Annona cherimola*." *Phytochemistry*, 51, 429–433. (SCI)
33. **Fang-Rong Chang**, Jien-Lin Chen, Feui-Fen Chiu, Ming-Jung Wu, and Yang-Chang Wu*, 1999. "Bioactive Acetogenins from the Seeds of *Annona artemoya*." *Phytochemistry*, 51, 883–889. (SCI)
34. Tian-Jye Hsieh, Chung-Yi Chen, Reen-Yen Kuo, **Fang-Rong Chang**, and Yang-Chang Wu*, 1999. "Two New Alkaloids from *Artabotrys uncinatus*." *J. Nat. Prod.*, 62, 1192–1193. (SCI)
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PATENT GRANTED LIST

Type	Title	Country	Patent No.
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1	Invention	Composition for treating cancer cells and preparation method for the same	USA	US7670630B2
2	Invention	Composition for treating cancer cells and preparation method for the same	USA	US7785639B2
3	Invention	Composition for treating cancer cells and preparation method for the same	USA	US7550160 B2
4	Invention	Composition for treating cancer cells and preparation method for the same	USA	US7887856B2
5	Invention	Composition for treating cancer cells and preparation method for the same	Taiwan	I321052
6	Invention	Composition for treating cancer cells and synthesis method thereof	Taiwan	I324062
7	Invention	Composition for treating cancer cells and synthetic method for the same	Australia	AU2008201553B2
8	Invention	Composition for treating cancer cells and synthetic method for the same	USA	US7842721B2
9	Invention	Composition for the treatment of cancer cells and method of synthesis thereof	Japan	JP5021549B2
10	Invention	Composition for treating diabetes and metabolic diseases and a preparation method thereof	USA	US9085520B2
11	Invention	Methods and compositions for inhibition of ATR and FANCD2 activation	USA	US9918962B2
12	Invention	Composition for treating influenza A (H1N1) virus and a preparation method therefor	USA	US8476311B2
13	Invention	Ethanol extract of <i>Antrodia camphorata</i> for inducing apoptosis and preparation method thereof	Taiwan	I389699
14	Invention	Pharmaceutical composition for treating cancer and the signaling pathway thereof	Taiwan	I394568
15	Invention	Inhibition of biofilm formation by 1,2,3,4,6-penta- <i>o</i> -galloyl-D-glucopyranose	Taiwan	I415572
16	Invention	Composition for treating atherosclerosis and a preparation method thereof	Taiwan	I415600
17	Invention	Composition for treating diabetes and metabolic diseases and a preparation method thereof	Taiwan	I417088
18	Utility Model	Dropping pill of <i>Antrodia cinnamomea</i>	Taiwan	M468314
19	Utility Model	Drink container of <i>Antrodia cinnamomea</i> for reducing alcohol level after alcohol consumption and awakening consciousness	Taiwan	M467624
20	Invention	Composition for treating cancer cells and use therefor	Taiwan	I422584
21	Invention	Chemical profile of detecting bioactive components of quinones, stilbenes, flavones and alkaloids	Taiwan	I426266
22	Invention	Composition for the treatment of cancer cells and method of synthesis thereof	Japan	JP5547167B2
23	Invention	Benzenoid compounds of <i>Antrodia cinnamomea</i> , preparation and analysis method thereof	USA	US8716499B2
24	Invention	Water extract of <i>Antrodia camphorata</i> for immunostimulatory effect and preparation method thereof	Taiwan	I448294
25	Invention	Composition for treating influenza A (H1N1) virus and a preparation method therefor	USA	US8815949B2
26	Invention	Benzenoid compounds of <i>Antrodia cinnamomea</i> , preparation and analysis method thereof	Taiwan	I454301
27	Invention	Benzenoid compounds of <i>Antrodia cinnamomea</i> , preparation and analysis method thereof	China	CN102584777B

28	Invention	Cancer cell growth inhibiting, cancer cell apoptosis inducing and cancer cell DNA damage causing pharmaceutical composition, and uses of <i>Gracilaria</i> spp. alcohol extract	Taiwan	I458486
29	Invention	Ethanol extract of <i>Antrodia camphorata</i> for inducing apoptosis and preparation method thereof	USA	US8883167B2
30	Invention	Extract of <i>Toona sinensis</i> from supercritical fluid extraction for treating diabetes and metabolic diseases, the preparation method and the use thereof	China	CN102821771B
31	Invention	Composition for treating influenza A (H1N1) virus and a preparation method therefor	USA	US8993618B2
32	Invention	4 Use of β -Hydroxylchololide E in the preparation of pharmaceutical compositions for the selective killing of oral cancer cells	Taiwan	I475987
33	Invention	Fungal composition with biological activities and a preparation method thereof	Taiwan	I483730
34	Invention	Ethanol extract of <i>Antrodia camphorata</i> for inducing apoptosis and preparation method thereof	Taiwan	I486164
35	Invention	Methods and compositions for inhibition of ATR and FANCD2 activation	Taiwan	I486341
36	Invention	Extract of <i>Toona sinensis</i> from supercritical fluid extraction for treating diabetes and metabolic diseases, the preparation method and the use thereof	Taiwan	I492755
37	Invention	Extract of <i>Toona sinensis</i> from supercritical fluid extraction for treating diabetes and metabolic diseases, the preparation method and the use thereof	China	CN102821771B
38	Invention	Medicinal composition for treating cancer and signal transduction path thereof	China	CN101664403B
39	Invention	Entadamides for cytotoxicity in cancer cells and the preparation method therefor	Taiwan	I526422
40	Invention	For detecting the chemical feature analysis of quinones, diphenylethylene, flavonoids and alkaloids composition	China	CN102854258B
41	Invention	Chemical profile of detecting bioactive components of quinones, stilbenes, flavones and alkaloids	USA	US9341605B2
42	Invention	Water extract of <i>Antrodia camphorata</i> for immunostimulatory effect and preparation method thereof	USA	US9241962B2
43	Invention	Triterpenoid composition of <i>Antrodia cinnamomea</i> , preparation and analysis method thereof	China	CN102614195A
44	Invention	Composition for treating metabolic syndrome and a preparation method thereof	Taiwan	I633880
45	Invention	Composition for treating atherosclerosis and a preparation method thereof	USA	US10098853B2
46	Invention	Methods and compositions for inhibition of ATR and FANCD2 activation	USA	US10195176B2
47	Invention	Use of water-extracted products of Taiwan Baifengcai to treat hepatocellular carcinoma and inhibit the growth of hepatocellular carcinoma stem cells	Taiwan	I661831
48	Invention	Compositions and methods of antiallergic phorbol ester and phorbol derivatives as the main active ingredients from the seeds of <i>Aquilaria malaccensis</i>	USA	US10335445B2
49	Invention	Compositions and methods of antiallergic phorbol ester and phorbol derivatives as the main active ingredients from the seeds of <i>Aquilaria malaccensis</i>	Taiwan	I687405

50	Invention	Compositions and methods of antiallergic phorbol ester and phorbol derivatives as the main active ingredients from the seeds of <i>Aquilaria malaccensis</i>	China	CN107198724B
51	Invention	Extract of <i>Toona sinensis</i> from supercritical fluid extraction for treating diabetes and metabolic disease, the preparation method and the use thereof	USA	US10668122B2
52	Invention	<i>Antrodia</i> extract identification index	Taiwan	I653979
53	Utility Model	Container of the drink of <i>Cordyceps militaris</i>	Taiwan	M537080
54	Invention	Formyl peptide receptor 1 antagonists and uses thereof	Taiwan	I606828
55	Invention	Formyl peptide receptor 1 antagonists and uses thereof	China	CN108261416B
56	Invention	<i>Cordyceps militaris</i> extract for anti-inflammation and anti-proliferation against human liver cancer cell lines, and its preparation method	Taiwan	I612963
57	Invention	Use of chalcone derivatives	Taiwan	I714812
58	Invention	Use of agarwood tree seed extract to prepare skin anti-inflammatory composition	Taiwan	I731607
59	Invention	Use of agarwood tree seed extract to prepare skin repair composition	Taiwan	I726645
60	Invention	Use of agarwood tree seed extract to prepare skin repair composition	China	App. No. 2020103323310
61	Invention	A kind of sesquiterpene active component and preparation method thereof and application	China	CN104016952B
62	Invention	Glutathione s-transferases omega 1 inhibitor, pharmaceutical compositions thereof, and preparing method for the same	Taiwan	I503315
63	Invention	Glutathione s-transferases omega 1 inhibitor, pharmaceutical compositions thereof, and preparing method for the same	Japan	JP5778301B2
64	Invention	Multiple beneficial functions of maca as anti-allergic, anti-neutrophilic inflammatory, anti-thrombotic, and pro-angiogenic agents and use thereof	USA	17/828,230
65	Invention	Multiple beneficial functions of maca as anti-allergic, anti-neutrophilic inflammatory, anti-thrombotic, and pro-angiogenic agents and use thereof	Japan	特願 2022-088355
66	Invention	Multiple beneficial functions of maca as anti-allergic, anti-neutrophilic inflammatory, anti-thrombotic, and pro-angiogenic agents and use thereof	Taiwan	111118349
67	Invention	Multiple beneficial functions of maca as anti-allergic, anti-neutrophilic inflammatory, anti-thrombotic, and pro-angiogenic agents and use thereof	China	App. No. 202210581564.3
68	Utility Model	Maca food packaging combination	Taiwan	Filing
69	Invention	Extraction method of <i>Clinacanthus nutans</i> , and use of its extract for treating osteoporosis, neurodegenerative diseases, skeletal muscle atrophy and improving wound healing	Taiwan	I779941
70	Invention	Use of adlay extract in lowering body weight with high fat diet	Taiwan	I789384
71	Invention	Antioxidant, anti-inflammatory, anti-uvb, anti-allergic, whitening, and anti-wrinkle roselle seed extract	Taiwan	Filing
72	Invention	Antioxidant, anti-inflammatory, anti-uvb, anti-allergic, whitening, and anti-wrinkle roselle seed extract	USA	Filing

73	Invention	Use of <i>Caulerpa lentillifera</i> extract for making a composition promoting anti-inflammation, anti-oxidation and anti-cancer of skin	Taiwan	I790760
74	Invention	Application of dried sea grape for preparing skin anti-inflammatory and anti-cancer composition	Taiwan	Filing
75	Invention	Extract and preparation of <i>Houttuynia cordata</i> hydroponic culture medium, system and production.	Taiwan	App. No. 111121087
76	Utility Model	A device for extracting Aiyu branches and Aiyu leaves	Taiwan	Filing