

CENTRE OF

for Complementary Health Products





Centre of Innovation for Complementary Health Products

The Centre of Innovation for Complementary Health Products (COI-CHP) at the School of Applied Science, Temasek Polytechnic (TP) is a one-stop national centre to support CHP enterprises meet the growing challenges and technological advances.

Through technical competency development, the Centre has developed a comprehensive range of capabilities to serve the complementary health products (CHP) industry. The categories of CHP mainly involved are:

- Traditional medicines
- · Health supplements
- Functional foods

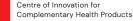
Since 2016, it has served over a hundred companies in the CHP sector and completed more than 150 consultancy projects.

Centre of Innovation for **Complementary Health Products**

Integrating a research-intensive, industry-centred environment, COI-CHP offers innovative, and customised solutions for the challenges faced by the CHP industry.

Equipped with cutting-edge scientific instrumentation and technical expertise, the Centre is able to authenticate and validate products through analytical testing to ascertain their quality, safety and efficacy.

We invite you to leverage on our scientific capability to increase your business competitiveness and expand into new markets.





Challenges Faced by SMEs

in CHP Innovation



Key competitive advantages



With the Centre's breadth of expertise and capabilities, the industry can leverage through a collaborative platform to embark on new opportunities that supports the expansion into emerging growth areas. The Centre has established connections with other notable organisations that includes government bodies, trade associations, hospitals and academic institutions, both local and overseas.

State-of-the-art facilities

Companies can leverage on various testing laboratories and contracted research organisations for a well-rounded product formulation, quality assurance, chemical, biological, and safety and efficacy testing.



An affiliation with Temasek Polytechnic (TP) allows the Centre to co-facilitate with TP's qualified trainers to deliver skills-based training courses for the CHP industry.

Services

Chemical and Biological Analysis





Active ingredients testing



Limits for naturally occurring substances



Microbial testing

In-vivo pharmacokinetic testing

Antioxidant testing







Residual pesticide testing

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Screening for Western drug adulterants

Banned substances

testing

Metabolomics

study

Centre of Innovation for **Complementary Health Products**

Services Safety and **Efficacy Studies**







testing



In-vitro & in-vivo



In-vitro & in-vivo prebiotic effect analysis

toxicological analysis



Gut microbiome

study

Skin irritation testing

Through a range of services that encompasses both in-vitro and in-vivo testing of biological materials and devices, we can custom design testing approaches to validate the safety and efficacy of your products.



efficacy testing

Services Product Development





Innovative functional food formulation



Product shelf-life and stability studies



Innovative herbal product formulation



Applied nutrition research and consultancy services

Consultancy on Current Good Manufacturing Practices (cGMP)

With our integrated team of experts, we can provide tailored innovative product development to meet the needs of key industries. Through differentiating formulation and drug delivery modes, the performance of your product can be enhanced.



Product reformulation and prototyping





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Complementary Health Product

Facilities

- Biosafety Containment Laboratories
 - Cell Culture
 - Microbiology
- Animal Holding & Testing Facility

Equipment

- Ultra Performance Liquid Chromatography (UPLC)
- Gas Chromatography (GC)
- Gas Chromatography Mass Spectrometry (GC-MS)
- Triple Quadrupole Mass Spectrometry (QqQ-MS)
- Quadrupole Time-of-Flight Mass Spectrometry (Q-TOF-MS)
- Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
- High Performance Thin Layer Chromatography (HPTLC)
- Fourier Transform Infrared Spectroscopy (FT-IR)
- Stability Chamber
- Extractor
- Freeze Dryer and Spray Dryer
- Dissolution Apparatus
- Granulator
- Encapsulator
- Quantitative Thermo Cycler Machine



GET IN TOUCH WITH US.



Call us at 6780 4165 Email us at coi-chp@tp.edu.sg

Visit us: https://www.tp.edu.sg/research-and-industry /centres-of-excellence/centre-of-innovation-ofcomplementary-health-products-coi-chp.html



Temasek Polytechnic Centre of Innovation for Complementary Health Products CREATING TOMORROW