



CENTRE OF INNOVATION

for Complementary
Health Products



Temasek Polytechnic
Centre of Innovation for
Complementary Health Products
CREATING TOMORROW



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

Common challenges faced by SMEs



Lack technical competency



Can't afford support system



Weak ability to analyse scientific information



Lack scientific credibility and track record

Enabling roles played by COI-CHP



Technical support



Cost reduction



Informed business decision-making



Capability development

Business Objectives

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.



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



Antioxidant testing



Banned substances testing



Limits for naturally occurring substances



In-vivo pharmacokinetic testing



Metabolomics study



Microbial testing



Screening for Western drug adulterants



Residual pesticide testing

Services

Safety and Efficacy Studies



Anti-viral activity testing



In-vitro & in-vivo toxicological analysis



In-vitro & in-vivo efficacy testing



In-vitro & in-vivo prebiotic effect 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.

Services

Product Development



Innovative functional food formulation



Innovative herbal product formulation



Product reformulation and prototyping



Product shelf-life and stability studies



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.



Facilities & Equipment

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



Facilities

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

GET IN TOUCH WITH US.



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



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