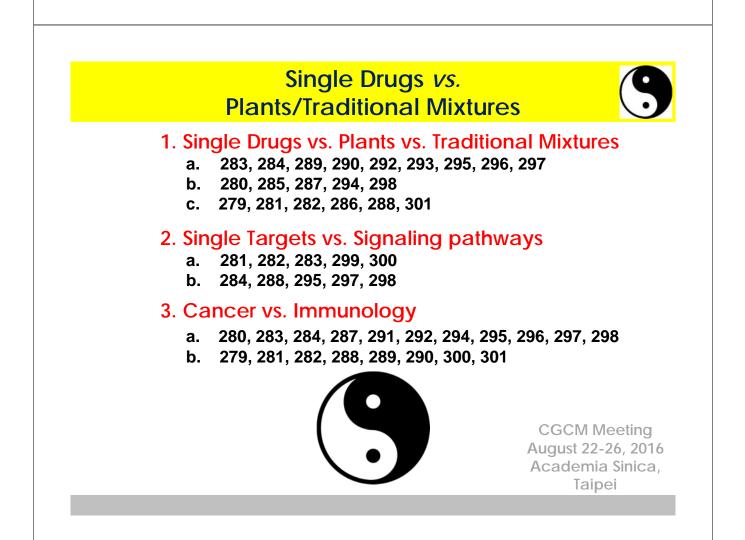


Thomas Efferth, Wen-Luan Wendy Hsiao, Wing Lam, Na Lin, Clara Lau, Wei Zhang, Ming-ching Kao, Ping-Chung Leung



Single Drugs *vs.* Plants vs. Traditional Mixtures



288: Zhi-Ke Liu et al.: A traditional Chinese herbal medicine (Da Chiaxiong formula) suppressed inflammatory mediators in LPS-induced RAW 264.7 cells via inhibition of NF-kB pathway.

295: Jia-Hua Feng et al.: A plant sesquiterpene lactone derivative, DETD-35, overcomes acquired vemurafenib resistance via triggerung ROS induced apoptosis and inhibiting multiple signaling pathways in melanoma cells.

298: Seung-Hun Kim et al.: Tumor growth suppression by apoptosis with aqueous extract of medicine herb Brucea javanica in human lung cancer cells with L858R/T790M mutation of epidermal growth factor receptor.

299: Ahmed A.A. Ali et al.: A facile and effective strategy to identify molecular targets of drugs and biolgical lead compounds.



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Single Drugs *vs.* Plants vs. Traditional Mixtures



- Reductionistic versus holistic approaches
- Quality control: chemoprofiling, contamination, barcoding etc.
- Traditional versus modern Chinese medicine
- In vitro versus in vivo experimentation problem of high doses
- Plus/minus versions of traditional formulae, dose variations
- Emperor minister servant plants:
 role for bioavailability and prevention of toxicity



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Single Targets vs. Signaling Pathways

Questions addressed:

- Network pharmacology, big data, background noise
- Value for individualized therapy
- Value for diangostics and disease
- Target specificity, off target effects



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Cancer vs. Immunology

Questions addressed:

- Role of immunology for carcinogenesis
- Role of immunology for cancer immunotherapy
- Clinical trials versus compassionate uses
- How to assess side effects and toxic reactions



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