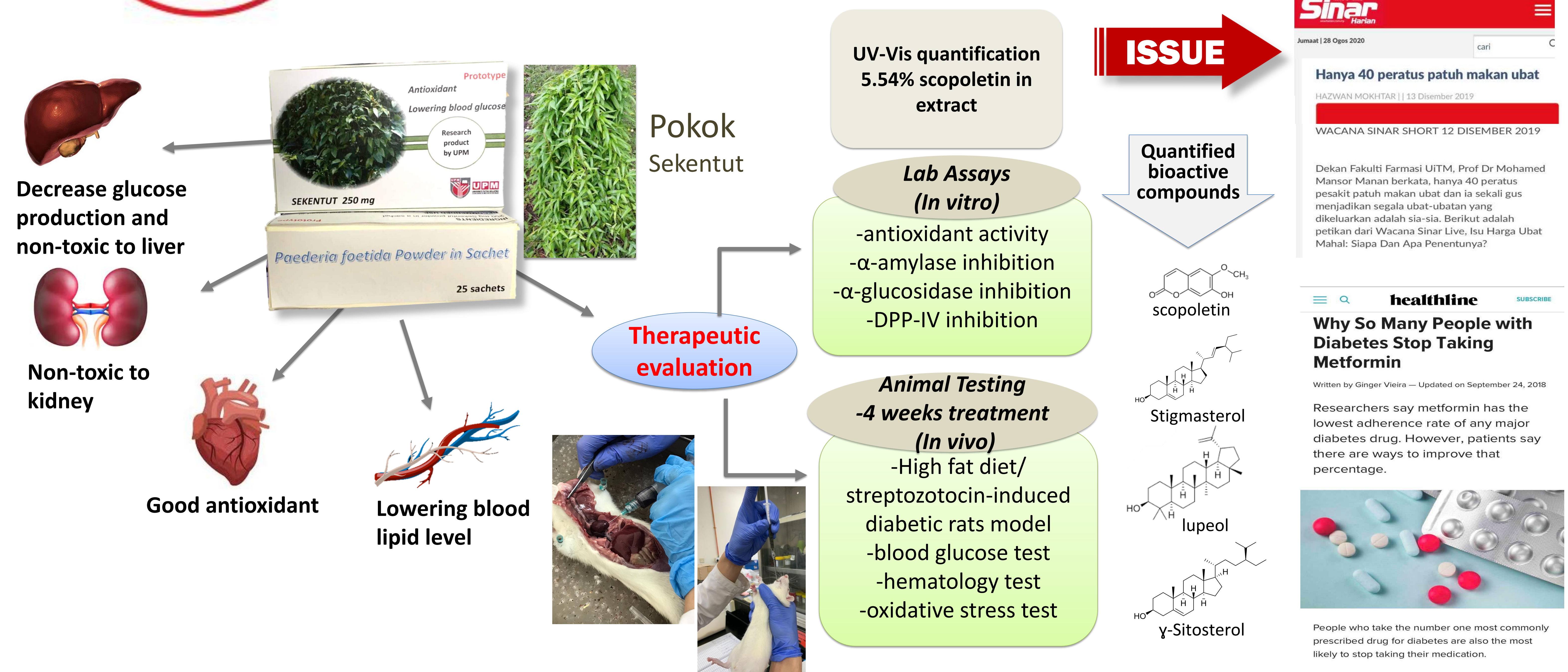




Standardized *Paederia foetida* (Pokok Sekentut) Extract Natural Remedy for Type 2 diabetes

PATENT NO. PI2020000673



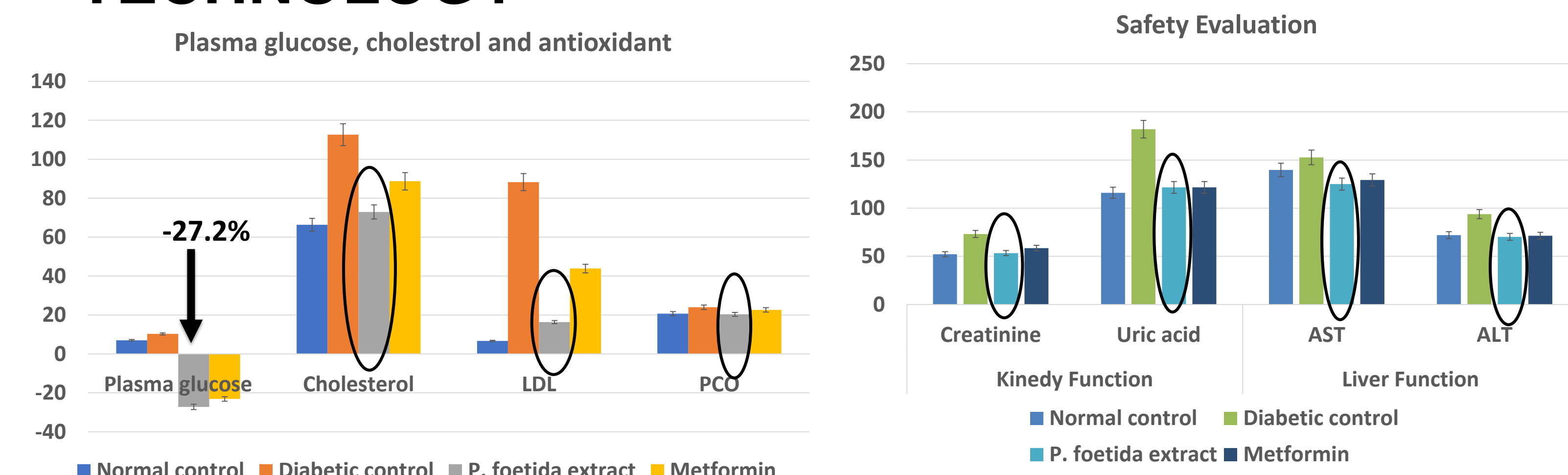
CURRENT ISSUES

- Non-compliance among diabetics on demographic and psychological and negative attitude (Journal of Family & Community Medicine, 2012)
- A group of chronic patients did not adhere to take medication (Berita Harian, 19th Jan. 2017)
- Only 40% of patients adherence to take medicine- (Sinar Harian, 13th Dec. 2019)
- Many people with diabetes stop taking Metformin (<https://www.healthline.com/health-news/why-so-many-people-with-diabetes-stop-taking-metformin>)

PROBLEMS WITH NON-ADHERENCE OF TAKING MEDICATION

1. Side effects
2. Long duration of treatment
3. Low education level
4. Lack of finances

TECHNOLOGY



50 mg/kg *P. foetida* extract lower the blood glucose by 27.2%, cholesterol, LDL, and oxidative stress of protein carbonyl content.

50 mg/kg *P. foetida* extract lower the creatinine and uric acid. Lower AST and ALT in *P. foetida* extract showed the lower inflammation and damaged cells compared to diabetic control.

Current stage:
TRL 4 (Lab validation)

Project Leader
Team members

Dept./Faculty
Email
Phone

Expertise : Phytochemistry, Biochemistry and Organic Chemistry

: Dr. Nur Kartinee binti Kassim
: ChM. Tan Dai Chuan, Assoc. Prof. Dr. Intan Safinar Ismail, Assoc. Prof. Dr. Muhajir Hamid, Dr. Norsuhana Omar
: Chemistry, Faculty of Science
: kartinee@upm.edu.my
: 03-97696775

ADVANTAGES - Competitive Matrix

Properties	UPM-PF	Metformin	Product -X
Lowering blood glucose	✓	✓	NA
Antioxidant	✓	✓	NA
Safety Evaluation			
Liver	✓	✓	NA
Kidney	✓	✓	NA
Known bioactive markers	✓	✓	X
Effective (low dosage)	✓ (250 mg)	X (500 mg)	X (591 mg)
Low cost	✓	X	✓
Green technology	✓	NA	✓
Plant-based	✓	X	✓

MARKET POTENTIAL

