

半夏泻心汤网络药理学分析

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LiChuang Huang



@ 立效研究院

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1 摘要

半夏泻心汤 (半夏 15g、甘草 15g、黄芩 15g、人参 15g、干姜 15g、黄连 5g、大枣 4 枚) 绘制药方-草药-主要活性成分-靶点图。

结果见 Fig. 2

2 材料和方法

2.1 方法

Mainly used method:

- Website HERB <http://herb.ac.cn/> used for data source.¹
- Other R packages (eg., `dplyr` and `ggplot2`) used for statistic analysis or data visualization.

3 分析结果

4 结论

5 附：分析流程

5.1 半夏泻心汤网络药理学分析

5.1.1 成分

Table 1 (下方表格) 为表格 Herbs information 概览。

(对应文件为 `Figure+Table/Herbs-information.xlsx`)

注：表格共有 7 行 18 列，以下预览的表格可能省略部分数据；表格含有 7 个唯一 ‘Herb_’。

Table 1: Herbs information

Herb_	Herb_...	Herb_...	Herb_...	Herb_...	Prope...	Merid...	UsePart	Function	Indic...
HERB0...	BAN XIA	半夏	tuber...	Rhizo...	Warm;...	Lung;...	tuber	To re...	Cough...
HERB0...	DA ZAO	大枣	Jujub...	Fruct...	Warm;...	Splee...	ripe ...	To to...	Reduc...
HERB0...	GAN CAO	甘草	Root ...	Radix...	Mild;...	Lung;...	root ...	To re...	1. It...
HERB0...	GAN J...	干姜	Dried...	Rhizo...	Hot; ...	Lung;...	dried...	To di...	Cold ...
HERB0...	HUANG...	黄连	rhizo...	Rhizo...	Cold;...	Large...	rhizome	To re...	Febri...
HERB0...	HUANG...	黄芩	root ...	Radix...	Cold;...	Lung;...	root	To re...	Chest...
HERB0...	REN SHEN	人参	Ginseng	Radix...	Minor...	Lung;...	root	To re...	Qi va...

Table 2 (下方表格) 为表格 Components of Herbs 概览。

(对应文件为 [Figure+Table/Components-of-Herbs.xlsx](#))

注：表格共有 1821 行 4 列，以下预览的表格可能省略部分数据；表格含有 1645 个唯一 ‘Ingredient.name’。

Table 2: Components of Herbs

herb_id	Ingre.....2	Ingre.....3	Ingre.....4
HERB0...	HBIN0...	10,13...	NA
HERB0...	HBIN0...	12,13...	NA
HERB0...	HBIN0...	1,2,3...	PGG; ...
HERB0...	HBIN0...	1-[(2...	1-[(2...
HERB0...	HBIN0...	1,5-p...	NA
HERB0...	HBIN0...	1&apo...	methyl...
HERB0...	HBIN0...	1-o- ...	NA
HERB0...	HBIN0...	1-octene	Tox21...
HERB0...	HBIN0...	24-Et...	Stigm...
HERB0...	HBIN0...	24-me...	NA
HERB0...	HBIN0...	2&apo...	2&apo...
HERB0...	HBIN0...	(2R)-...	(2R)-...
HERB0...	HBIN0...	(2S)-...	PDSP2...
HERB0...	HBIN0...	2Z-he...	LMFA0...
HERB0...	HBIN0...	3,4,5...	Spect...
...

Figure 1 (下方图) 为图 intersection of all compounds 概览。

(对应文件为 [Figure+Table/intersection-of-all-compounds.pdf](#))

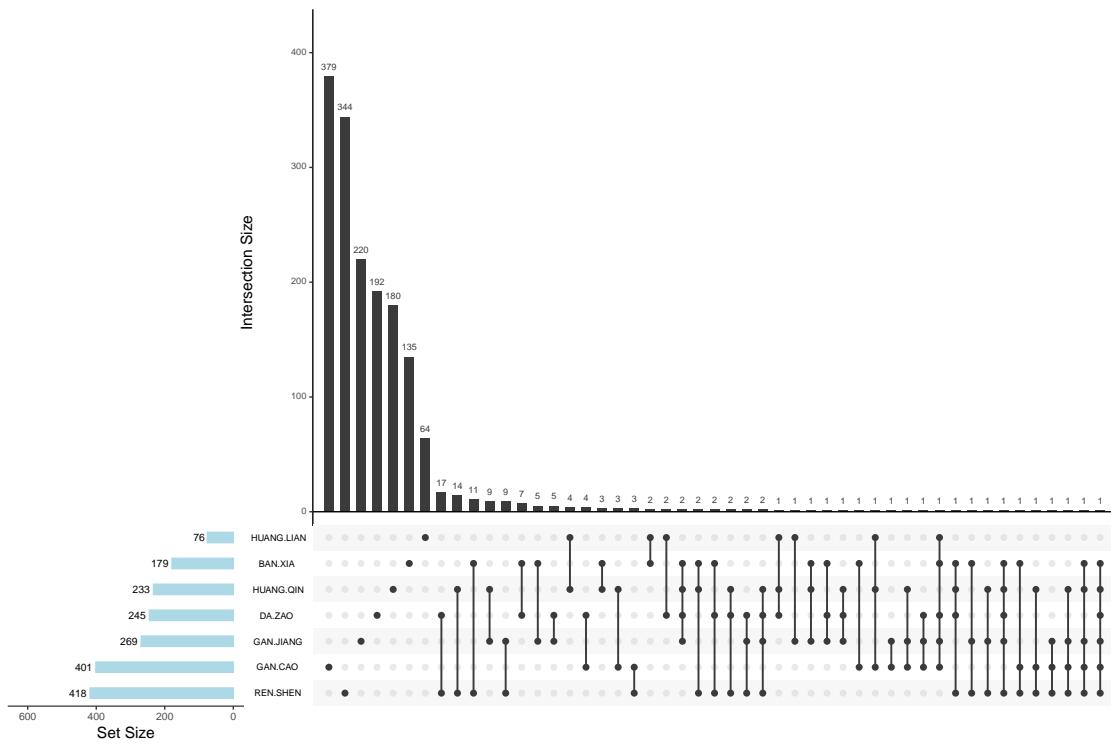


Figure 1: Intersection of all compounds

5.1.2 成分靶点

Table 3 (下方表格) 为表格 tables of Herbs compounds and targets 概览。

(对应文件为 Figure+Table/tables-of-Herbs-compounds-and-targets.xlsx)

注：表格共有 21927 行 9 列，以下预览的表格可能省略部分数据；表格含有 1645 个唯一‘Ingredient.id’。

Table 3: Tables of Herbs compounds and targets

Ingre.....1	Herb_...	Ingre.....3	Ingre.....4	Targe.....5	Targe.....6	Datab...	Paper.id	...
HBIN0...	BAN.XIA	10,13...	NA	NA	NA	NA	NA	...
HBIN0...	GAN.J...	[10]-...	NA	NA	NA	NA	NA	...
HBIN0...	GAN.J...	10-Gi...	10-gi...	NA	NA	NA	NA	...
HBIN0...	GAN.J...	[10]-...	NA	HBTAR...	CYP3A4	NA	NA	...
HBIN0...	GAN.J...	[10]-...	NA	HBTAR...	HSD17B3	NA	NA	...
HBIN0...	GAN.J...	10-gi...	AKOS0...	NA	NA	NA	NA	...
HBIN0...	HUANG...	11,13...	methyl...	HBTAR...	ACHE	NA	NA	...
HBIN0...	HUANG...	11,13...	methyl...	HBTAR...	PPARG	NA	NA	...
HBIN0...	HUANG...	11,13...	methyl...	HBTAR...	NCOA2	NA	NA	...
HBIN0...	GAN.J...	1,11z...	NA	NA	NA	NA	NA	...
HBIN0...	HUANG...	1,1,6...	1,2-D...	NA	NA	NA	NA	...

Ingre.....1	Herb_...	Ingre.....3	Ingre.....4	Targe.....5	Targe.....6	Datab...	Paper.id	...
HBIN0...	GAN CAO	11-de...	11-De...	HBTAR...	NR3C1	NA	NA	...
HBIN0...	GAN CAO	11-de...	11-De...	HBTAR...	AR	NA	NA	...
HBIN0...	GAN J...	12,13...	12,13...	HBTAR...	AR	NA	NA	...
HBIN0...	GAN J...	12,13...	12,13...	HBTAR...	ESR1	NA	NA	...
...

Figure 2 (下方图) 为图 Herbs compounds and targets Network 概览。

(对应文件为 Figure+Table/Herbs-compounds-and-targets-Network.pdf)

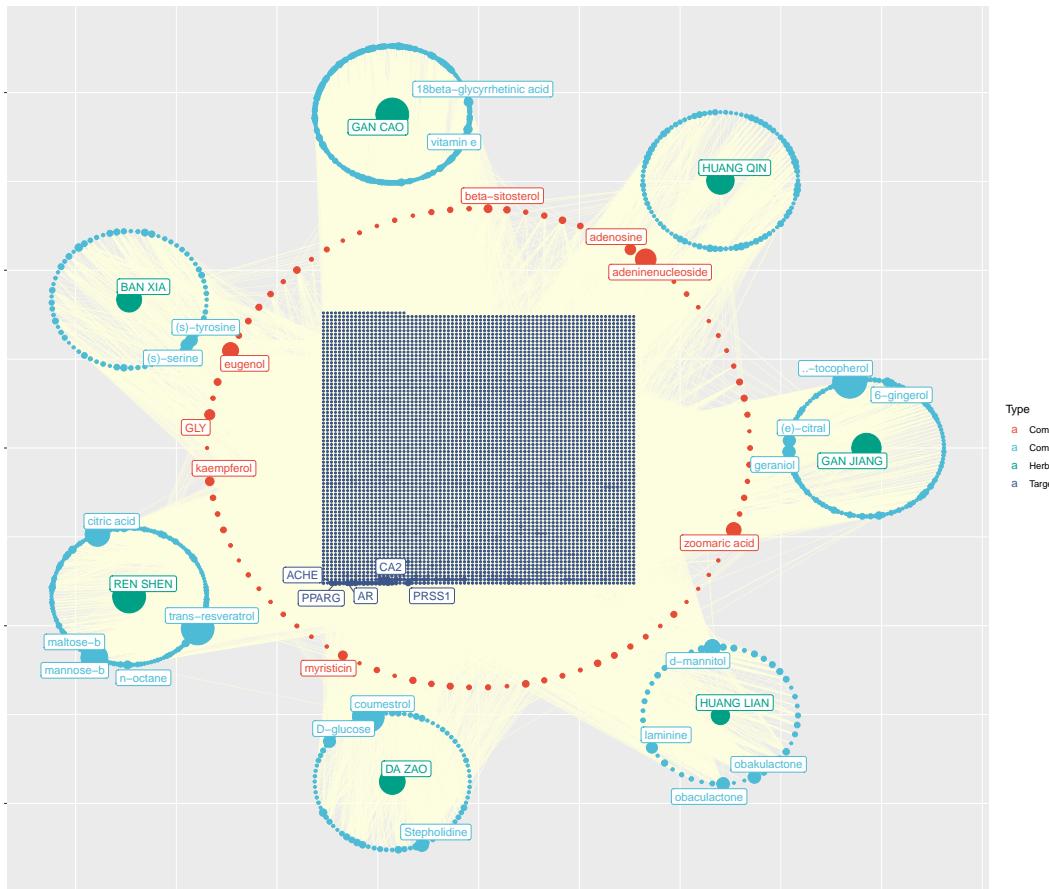


Figure 2: Herbs compounds and targets Network

Reference

- Fang, S. et al. HERB: A high-throughput experiment- and reference-guided database of traditional chinese medicine. *Nucleic Acids Research* **49**, D1197–D1206 (2021).