

Indole-3-acetamide from gut microbiota activated hepatic AhR and mediated the remission effect of *Lactiplantibacillus plantarum* P101 on alcoholic liver injury in mice

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Table S1. Reagents and assay kits used in this study.

Reagents/assay kits	Manufacturer	Location	Catalog number/CAS
Man Rogosa Sharpe (MRS) broth	Solarbio Science & Technology Co., Ltd.	Beijing, China	M8540
Lieber-DeCarli liquid diets; maltodextrin	TROPIC Animal Feed High-Tech Co., Ltd.	Jiangsu, China	TP-4030
Ethanol (95% AR)	Sinopharm Chemical Reagent Co., Ltd.	Shanghai, China	64-17-5
Neutral paraformaldehyde fixative	Wuhan Servicebio Technology Co., Ltd.	Hubei, China	G1101
RNA wait	Solarbio Science & Technology Co., Ltd.	Beijing, China	SR0020
Mouse TNF- α , IL-1 β , IL-6, IL-10 and human TNF- α ELISA kits	YSRIBIO Industrial Co., Ltd.	Shanghai, China	/
SOD, CAT, GSH and MDA assay kits	Nanjing Jiancheng Bioengineering Institute	Jiangsu, China	A001-3-2, A007-1-1, A006-2-1, A003-1-2
AST, ALT, TC and TG assay kits	Nanjing Jiancheng Bioengineering Institute	Jiangsu, China	C010-2-1, C009-2-1, A111-1-1, A110-1-1
BCA assay kit	Applygen Technologies Inc.	Beijing, China	P1513
RNA FastPure Kit	Tsingke Biotechnology Co., Ltd.	Beijing, China	TSP413
cDNA Synthesis kit, SYBR Green Mix	Yeasen Biotechnology Co.,	Shanghai, China	11119ES60

	Ltd.		
Primers	Generalbiol Co., Ltd.	Anhui, China	/
RIPA Lysis Buffer	Applygen Technologies Inc.	Beijing, China	C1053
PMSF, AP	Merck KGaA	Darmstadt, Germany	329-98-6, 7727-54-0
Sodium dodecyl sulfate	Shanghai Aladdin Biochemical Technology Co., Ltd.	Shanghai, China	151-21-3
Tris	Sinopharm Chemical Reagent Co., Ltd.	Shanghai, China	77-86-1
Glycine, 1,2-Bis(dimethylamino)ethane, ColorMixed Protein Marker	Solarbio Science & Technology Co., Ltd.	Beijing, China	56-40-6, 110-18-9, PR1910
Tween-20	Sangon Biotech (Shanghai) Co., Ltd.	Shanghai, China	A600560
ECL chemiluminescence kit	Nanjing Vazyme Biotech Co.,Ltd.	Jiangsu, China	E411-04/05
BSA	BioFROXX GmbH	Einhausen, Germany	143064
PVDF Membrane	Merck KGaA	Darmstadt, Germany	IPVH00010
DMSO, Trypsin, 1×PBS, Penicillin-Streptomycin Liquid, DMEM medium	Solarbio Science & Technology Co., Ltd.	Beijing, China	YT0145, YT0145, YM3028, RS0011, 11965
Fetal bovine serum	Cellmax Co., Ltd.	Beijing, China	SA201
Indole-3-acetamide	Sigma-Aldrich Trading Co., Ltd.	Shanghai, China	67-68-5, 9002-07-7, P1020, P1400

Trypan blue Stain	Shanghai yuanye Bio- Technology Co., Ltd	Shanghai, China	R20306
CCK-8 Cell Counting Kit	Nanjing Vazyme Biotech Co., Ltd.	Jiangsu, China	A311-01/02
ROS fluorescence probe assay kit	Solarbio Science & Technology Co., Ltd.	Beijing, China	4091-99-0

Table S2. Primers used in this study.

Gene	Forward	Reverse
<i>Mus musculus</i>		
<i>β-actin</i>	GCTCCTCCTGAGCGCAAGT A	CAGCTCAGTAACAGTCCGCC
<i>ADH1</i>	GCAAAGCTGCGGTGCTATG	TCACACAAGTCACCCCTTCT C
<i>ALDH1</i>	ATACTTGTCGGATTTAGGAG GCT	GGCCTATCTTCCAAATGAA CA
<i>ALDH2</i>	TTCCCACCGTCAACCCTTC	CCAATCGGTACAACAGCCG
<i>CYP2E1</i>	CGTTGCCTTGCTTGTCTGGA	AAGAAAGGAATTGGGAAAG GTCC
<i>TLR-4</i>	CTGTATTCCCTCAGCACTCT TGATT	TGCTTCTGTTCCCTTGACCCAC T
<i>NF-κB</i>	ACACTGGAAGCACGGATGA C	TGTCTGTGAGTTGCCGGTCT
<i>TNF-α</i>	CTCATGCACCACCATCAAG G	ACCTGACCACTCTCCCTTTG
<i>IL-6</i>	TTCCATCCAGTTGCCTTCTT	CAGAATTGCCATTGCACAAC
<i>IL-22</i>	TGAGTTTTTCCCTTATGGGG AC	CTGGAAGTTGGACACCTCAA
<i>AHR</i>	TGCCTTGGTCTTCTATGCTT	GCTCATATACGCTCTGATGG AT
<i>AHRR</i>	ACATACGCCGGTAGGAAGA GA	GGTCCAGCTCTGTATTGAGG C
<i>CYP1A2</i>	ATCCTGGAGATCTACCGAT ACA	TATGTAGATACAGCGCTCCT TG
<i>Homo sapiens</i>		
<i>ADH1</i>	AGTCATCCCCTCGCTATTC C	GTCCCCTGAGGATTGCTTAC A
<i>CYP2E1</i>	ATGTCTGCCCTCGGAGTCA	CGATGATGGGAAGCGGGAA A
<i>ALDH1</i>	CTGCTGGCGACAATGGAGT	CGCAATGTTTTGATGCAGCC T
<i>ALDH2</i>	ATGGCAAGCCCTATGTCATC T	CCGTGGTACTTATCAGCCCA
<i>TLR4</i>	TGAGCAGTCGTGCTGGTATC	CAGGGCTTTTCTGAGTCGTC
<i>NF-κB</i>	AGCAAATAGACGAGCTCCG A	TCGGTAAAGCTGAGTTTGCG
<i>IL-10</i>	TCAAGGCGCATGTGAACTC C	GATGTCAAACCTCACTCATGG CT
<i>IL-6</i>	TGTGTGGGGCGGCTACATCT	GCCTTCGGTCCAGTTGCCTT
<i>TNF-α</i>	CCCTCACACTCAGATCATCT TCT	GCTACGACGTGGGCTACAG

IL-1 β

ATGATGGCTTATTACAGTGG
CAA

GTCGGAGATTCGTAGCTGGA
