I research many natural plant medicines,	howe	ver my area
of expertise is with Syrian Rue also !		
I own the Internet domain Syrian Rue.		
research information portal where co		
from research teams world wide are		
topic of Syrian Rue. Excerpts from	son	ne of the
following sources are published there.		
Journal of Microbiology Research	- ;	2016
International Journal of Biosciences		2016
Journal of Renal Injury Prevention	2	2017
Phytomedicine		:013
European Journal of Pharmacology	\ 2	Poll
Cholestoral	- 2	2016
Iran Journal of Pharmaceutical Research	h. 3	2016
Journal of Dentistry	2	2016
International Journal of Dermatology	1	980
American Chemical Society	- 5	017
American Society of Pharmacognosi	1 - 2	2017
Journal of Essential Oil Bearing Plants	_ 2	013
Journal of Drug Targeting	- 2	004
Journal of Metabolic Biseases	- 2	015
Archives of Pharmacal Research	- 2	(00)
Toxins	- 2	017
Cancer and Biological Therapy	- 2	007
Mutagenesis	- 2	007

Research Gate. NET is the single largest online gathering of professional and acedemic researchers on earth. I have been a member at Research Gate for 7 years. I was approved to publish as an "Independent Researcher" Wall Street Journal has called Research Gate. NET "The future of medicine research! I am affiliated with the most accredited and respected gathering of medicine researchers on earth. Attached to this letter is an excerpt from my own website-Syrion Rue.org as well as my publication titled "Neurodegenerative Disease Cure 2018" which can also be found online at Research Gate. NET published under my name: Brian Aberle There is overwhelming evidence that the purpose of the labratory equipment in my home was for medicine research work. Amid the 138 items confiscated from my home was 20 kilos of Syrian Rue which is an unregulated plant and all medicine extrads produced from Syrian Rue are also unregulated. Syrian Rue is are both Beta Carbolines. Both medicines work by inhibiting enzymes. MAOI's are anti-depressants and ACLEI's are the best known treatment for Alzheimers and other neurodegenerative diseases.

items in my home required for bulk manufacturing DMT.

I extracted juice from grass.

I did have a chemistry labratory, however the absence of controlled substances other than the miniscule amount of DMT found and the presence of beta carboline extracts in quantity indicates the truth about my activities. I also extract essential oils because they are essential to medicine. Pounds of frankingense and myrrh resin were confiscated. The essential oils from these plants contain the 6 carbon aromatic ring which is essentially the foundation to countless medicines. My essential oil steam distillation setup with reflux and condensation columns were amid the 138 items which were unlawfully confiscated from my home. All the evidence points toward the truth - truth that Ashe county detectives and prosecution deliberately ignores. The search warrant for my home was expected to find "large amounts of cash which is common in the drug trafficking trade". No cash was found. The search warrant for data on my laptop was expected to find ledgers of controlled substance sales. No such records exist on the laptop. No sales were ever made. Nobody claims to have obtained any controlled substances From me. I am charged with "Manufacturing for Sales" although it is contrary to all evidence.

Ashe county officials seek to advance their careers at the expense of mine. They seek to manufacture a "drug trafficking bust" as they reported to the local newspapers. I charge that the story is "Defamation Ashe county has little regard for American ideals in justice. The premise of "Innocent until proven quilty" is foreign in Ashe county. The Bill of Rights forbids
"Unreasonable Searches" and states "Excessive bail shall not be required". My bond is set at \$350,000. The North Carolina quidelines for class H felonies is \$2,500. This constitutes False Imprisonment." Pretrial detention significantly hinders my ability to prepare for a fair trial. These issues are currently before the federal court for the Western District of North Carolina with federal docket \$5:19-cv-00024-FDW assigned to Chief Judge Frank D. Whitney on 3/7/2019 Please review the full text of the federal case which is filed as a U.S.C. 1983 civil rights violation. The lawsoit is published online at Syrian Rue. org In addition to Due Process of Law failure at a federal District Court "continued" my case 4 times and denied my motion for a "Probable Cause" hearing.

In Cauldwell county any case which does not proceed.

to a "Probable Cause" hearing within 30 days is dismissed. To my understanding this is to be in compliance with North Carolina State law. Ashe county makes no attempt to honor state or tederal mandates in justice therefore creating a place with no law at all. The law provides a resolution to my situation. I hope that the Governors Office Finds that this is a proper case for clemency because the U.S. Supreme Court has ruled that Ayahuasca is protected by the U.S. Constitution as a religious right. Recently the popularity of Ayahuasca has increased - partly due to television Shows like "Kentucky Ayahuasca" which operates legally with valid permits and documents how Ayahuasca con be used to help people overcome destructive addictions to opiates, alcohol, or methamphetamine.
There is already an "Ayahuasca Church" in North Carolina. I am seeking to obtain permits for Ayahuasca which I do in fact use in religious ceremony. Amid the 138 items unlawfully confiscated was an oil lamp modified to burn incense. Exodus 30 describes the "Altar of Incense" which burns myork connamon and calamus (1,23) These and other items such as frankincense (Lev 2:15-16) which I use in ceremony were confiscated and documented.

T also practice the "art of apothecary" (Exodus 30:25) which requires the essential oil steam distillation device which was also confiscated. I am experienced with the spiritual and medicinal values of essential oils as practiced traditionally by several cultures. Dietary laws put into effect by Moses (no pork, no yeast) must be followed when eating or smoking plants that contain an MAOI. Modern medicinal science calls this "The MAOI Diet" which technically is a diet without tyramine. The consecration of a priest involves being in the Smoke filled tabernacle for 7 days (Lev 8:33) Jesus is High Priest and Messiah even of the prophet Muhammed who wrote in the Quaran that no smoke rises to heaven faster than the smoke of Syrian Rue" These practices are based in ancient wisdom and are rightly protected by the highest law in the United States. I have worked with these spiritual tools at the sacred ceremonial site of the Taino in Poerto Rico and at an ancient ceremonial site right here in North Carolina in Black Mountain. The site in Black Mountain was founded by a former CIA agent who practiced out of body

remote viewing for the U.S. Government. The sanctuary he founded is in a dome built over an indian partal. You can read more about it at URLight.org

I hope that the Governors Office will uphold the Spinit of the law by protecting my right to Freedom of Religion. As the evidence suggests, I was using this medicine in a religious and spiritual setting and therefore qualify for protection from persecution by legal authorities who lack spiritual and scientific knowledge. I am educated at the cross roads of medicinal and spiritual. Please review the publication of mine titled "Neurodegenerative Disease Cure which documents much of what is known about "Neurogenesis" which apart from being preventative for Alzheimers is literally the birth of new brain matter thought to increase intelligence. Leonardo Da Vinci wrote that Syrian Rue is "miracle smart nutrient" I hope to help society. I have been incorcerated for 10 months already and the Ashe County District Attorney is seeking 16 to 38 months incarceration in the North Carolina State prison system. Please review the U.S.C. 1983 lawsuit published at Syrian Rue org which contains additional information about my criminal case - I will reiterate some of that information here for your convenience. I expect that you will see this is ultimately a case of Malicious Prosecution.

I explained to Timothy Moretz, my probation officer, that I do neuromedicine research from plant extracts. I have been self employed since 1995 and I was currently working from home as a computer network consultant for BeanWerks - a coffee importer in Asheville. I explained that my primary work was with bolistic medicine and plant medicines. Timothy discredited nonconventional medicine, Voiced his disbelief toward my honest employment, and threatened to violate my probation at his earliest convenience. Over the next weeks I saw that Timothy's threat was real by all the unusual activity of Sheriffs officers on my Very rural property. I called the FBI in Atlanta to report the threats made by my probation officer. I explained to the FBI more details of the sheriffs unusual activity. Please call the FBI in Atlanta yourself and obtain the transcripts of those calls. I attempted to report the misconduct taking place. On questionably legitimate grounds, a search warrant was obtained for my property. Execution of that warrant was "a figsco" in the words of Michael Sheron from the NC State Bureau of Investigations in an email dated June 26, 2018 to Collin Shuford from the NC State Crime Lab. M Sheron @ nasbi.gov -> CShuford@nadoj-gov 336-338-1505 828-654-0525

The Health Dept. was called to dismantle a meth lab but they determined it was not a meth lab and therefore had no legal jurisdiction to dismantle it. Several fire departments were dispatched to render a suspected explosive device safe. Experts determined that my oil lamp was not an explosive device. Many bags of sink tan and brown substances were identified as properly labeled salt an incense. The entire fiesco produced less than Noth of a gram of DMT. Thousands of dollars in property was confiscated.

I was imprisoned. The filthy jail was spreading skin rashes
There were many ear infections and several line outbreaks.

I prompted the Dept. of Health to inspect the jail on
August 31 2018 (Inspection # 88808) Moldy mattresses
caused a non-passing score. Angered by the surprise
inspection ACSO filed retalitory charges against me
3 days after the inspection on my case that was 77 days
old and had no new evidence.

The new charges claim that 320 grams of pure liquid

DMT was found. They claim that solvent with trace
amounts of DMT is pure DMT. In reality that Naphtha
solvent contained no more than a fraction of a gram.
Facts of science demand that 1000's of pounds of
grass are required to produce 320 grams of DMT. The
evidence was proof that nothing of that scale took place.

A conviction of an untrue drug charge will severely
hinder my professional work with medicine research
that aims to advance society. A conviction would
dishonor truth and American ideals in justice. I
hope that the Governors Office will find it
proper to administer justice with a pardon in this
situation.
God Bless Your Work.
The state of the s
Alleghony County Jail
do Brian Aberle
P.O. Box 68
Sparta NC 28675

I. PWIMSD SCHEDULE I CONTROLLED SUBSTANCE  06/21/2018  90-95(a)(1)  II.  I. The jurors for the State upon their oath present that on or about the date(s) of offense shown and in the county named above the defendant named above unlawfully, willfully and feloniously did possess with the intent to manufacture, sell and deliver a controlled substance, namely Dimethyltryptamine, which is included in Schedule I of the North Carolina Controlled Substances Act.  II. And the jurors for the State upon their oath present that on or about the date(s) of offense shown and in the county named above the defendant named above unlawfully, willfully and feloniously did  III. And the jurors for the State upon their oath present that on or about the date(s) of offense shown and in the county named above the defendant named above unlawfully, willfully and feloniously did  III. Signature of Prosecutor  WITNESSES  III. Stout (ACSO)  III. Stout BILL by twelve or more grand jurors, and I the undersigned Foreperson of the Grand Jury, attest the concurrence of twelve or more grand jurors in this Bill of Indictment.  III. Signature of Grand Jury Foreparson  III. Signature of Grand Jury Foreparson  III. Signature of Grand Jury Foreparson	STATE OF NORTH	CAROLINA	T.	File No.		
STATE VERSUS    Name And Actives Critical State   State	ASHE	m <b>-</b> enter 199				
STATE VERSUS  BRIAN TROY ABERLE  STATE VERSUS  INDICTMENT  INDI		County		In The G Sup	eneral Court Of J erior Court Division	ustice on
BRIAN TROY ABERLE 5493 TIRRET TOP ROAD  NC 28615  OPTIME TOP ROAD  NC 28615  This is a superseding indictment.  OPTIME TOP ROAD  This is a superseding indictment.  Date Of Offense  Date Range Of Offense Bate Range Of Off	Name And Address Of Defendant	VERSUS				
This is a superseding indictment.    This is a superseding indictment.   This is a superseding indictment.	BRIAN TROY ABERLE			INDICTME	ENT	
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Signature Of Prosecutor WITNESSES  J. Stout (ACSO)  Description of the Witnesses marked "X" were sworn by the undersigned Foreperson of the Grand Jury and, after hearing testimony, this ill was found to be:  A TRUE BILL by twelve or more grand jurors, and I the undersigned Foreperson of the Grand Jury, attest the concurrence of twelve or more grand jurors in this Bill of Indictment.  NOT A TRUE BILL.  Signature Of Grand Jury Foreperson  WITNESSES  Signature Of Grand Jury Foreperson	possess with the intent to manu	facture, sell and deliver a control	a relofflously (	ald		
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WITNESSES  J. Stout (ACSO)  Description:  Witnesses marked "X" were sworn by the undersigned Foreperson of the Grand Jury and, after hearing testimony, this was found to be:  A TRUE BILL by twelve or more grand jurors, and I the undersigned Foreperson of the Grand Jury, attest the concurrence of twelve or more grand jurors in this Bill of Indictment.  NOT A TRUE BILL.  Signature Of Grand Jury Foreperson  WITNESSES  Signature Of Grand Jury Foreperson  Signature Of Grand Jury Foreperson  WITNESSES  Signature Of Grand Jury Foreperson			reioniously d	lia		
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he Witnesses marked "X" were sworn by the undersigned Foreperson of the Grand Jury and, after hearing testimony, this ill was found to be:  A TRUE BILL by twelve or more grand jurors, and I the undersigned Foreperson of the Grand Jury, attest the concurrence of twelve or more grand jurors in this Bill of Indictment.  NOT A TRUE BILL.  Signature Of Grand Jury Foreperson  Signature Of Grand Jury Foreperson  Signature Of Grand Jury Foreperson  The Grand Jury Foreperson  Signature Of Grand Jury Foreperson  Signature Of Grand Jury Foreperson		WITN	IESSES			
he Witnesses marked "X" were sworn by the undersigned Foreperson of the Grand Jury and, after hearing testimony, this ill was found to be:  A TRUE BILL by twelve or more grand jurors, and I the undersigned Foreperson of the Grand Jury, attest the concurrence of twelve or more grand jurors in this Bill of Indictment.  NOT A TRUE BILL.  Signature Of Grand Jury Foreperson  Signature Of Grand Jury Foreperson  CC-CR-122, Rev. 1/13	⊈ J. Stout (ACSO)					
he Witnesses marked "X" were sworn by the undersigned Foreperson of the Grand Jury and, after hearing testimony, this ill was found to be:  A TRUE BILL by twelve or more grand jurors, and I the undersigned Foreperson of the Grand Jury, attest the concurrence of twelve or more grand jurors in this Bill of Indictment.  NOT A TRUE BILL.  Signature Of Grand Jury Foreperson  CC-CR-122, Rev. 1/13		3		15		
A TRUE BILL by twelve or more grand jurors, and I the undersigned Foreperson of the Grand Jury, attest the concurrence of twelve or more grand jurors in this Bill of Indictment.  NOT A TRUE BILL.  Signature Of Grand Jury Foreperson  CC-CR-122, Rev. 1/13	]					
A TRUE BILL by twelve or more grand jurors, and I the undersigned Foreperson of the Grand Jury, attest the concurrence of twelve or more grand jurors in this Bill of Indictment.  NOT A TRUE BILL.  Signature Of Grand Jury Foreperson  CC-CR-122, Rev. 1/13	]					
NOT A TRUE BILL.  Signature Of Grand Jury Foreperson  CC-CR-122, Rev. 1/13	A TRUE BILL by twelve or mo	ore grand jurges, and I the und				
CC-CR-122, Rev. 1/13		in this Bill of Indictment.	Was 1000000000		, and the conjug	rence
DC-CR-122, Rev. 1/13	11/13/18		Signature Of Gran	d Jury Foreperson		
	DC-CR-122, Rev. 1/13 2013 Administrative Office of the Court					

STATE OF NORTH CAROLINA	File No. 18CRS050638
County	In The General Court Of Justice Superior Court Division
STATE VERSUS	
Name And Address Of Defendant BRIAN TROY ABERLE 5493 THREE TOP ROAD	INDICTMENT
CRESTON NC 28615  Race   Sex   Date Of Birth	- ☐ This is a superseding indictment.
Sex   Date Of Birth     W   M       09/18/1972	
Offense(s)	Date Of Offense OR Date Range Of Offense  G.S. No. CL.
I. POSSESS SCHEDULE I CONTROLLED SUBSTANCE	06/21/2018 90-95(a)(3) I
п.	
The jurors for the State upon their oath present that on or above the defendant named above unlawfully, willfully and	about the date(s) of offense shown and in the county named feloniously did
possess a controlled substance, Psilocybin mushrooms, which is Act.	included in Schedule I of the North Carolina Controlled Substances
	€ p
II. And the jurors for the State upon their oath present that or above the defendant named above unlawfully, willfully and	or about the date(s) of offense shown and in the county named I feloniously did
	Signature Of Prosecutor Bellinger
at Chample Late 2000 (active Solome Late 2000) (active Late 2000) (act	NESŠES I
☑ J. Stout (ACSO)	
The Witnesses marked "X" were sworn by the undersigned F Bill was found to be:	oreperson of the Grand Jury and, after hearing testimony, this
A TRUE BILL by twelve or more grand jurors, and I the un of twelve or more grand jurors in this Bill of Indictment.	dersigned Foreperson of the Grand Jury, attest the concurrence
☐ NOT A TRUE BILL.	
11/17/18	Signaturp Of Grand Jury Foreperson

AOC-CR-122, Rev. 1/13 © 2013 Administrative Office of the Courts

STATE OF	NORTH CA	ROLINA		File No.	18CRS050892	
A	ASHE	County			General Court Of Ju perior Court Divisio	
	STATE VER	SUS				
Name And Address Of D BRIAN TROY AB 5493 THREE TOP	ERLE			INDICTM	ENT	
CRESTON Race	Sex	NC 28615	☐ This is a	superseding indictment.		
W	M	09/18/1972				
	C	offense(s)		Date Of Offense OR Date Range Of Offense	G.S. No.	CL.
I. MANUFACTURI	E SCHEDULE I CON	NTROLLED SUBSTANCE		06/21/2018	90-95(a)(1)	Н
II. FELONY POSSE	SSION OF SCHEDU	ILE I CONTROLLED SUBSTAN	ICE	06/21/2018	90-95(a)(3)	I
I. The jurors for above the defe	the State upon the	eir oath present that on or a	bout the dat	e(s) of offense shown ar lid	nd in the county nar	ned
manufacture con	nsisted of producin	which is included in Schedule g, preparing, compounding an defendant's residence by using	d processing t	he controlled substance by	tances Act. The mean of chemical	
II. And the jurors above the defe	for the State upo	n their oath present that on ove unlawfully, willfully and	or about the	date(s) of offense show	n and in the county	named
possess a contro	lled substance, Dir	nethyltryptamine, which is inc	luded in Sche	dule I of the controlled sub	estances act.	
					6	
			Signature Of Pro	secutor Bollin	2000/	
	E MARTINE	WITN	ESSES	c Buch		
✓ J. Stout (ACSO)		Cold degree 2019 (2014)		The state of the s		NA STRAIGHTE
				The second secon		
				**************************************		
The Witnesses ma Bill was found to b	arked "X" were sv be:	vorn by the undersigned Fo	reperson of	the Grand Jury and, afte	r hearing testimony	, this
A TRUE BILL to	oy twelve or more ore grand jurors in	grand jurors, and I the und this Bill of Indictment.	ersigned Fo	reperson of the Grand J	ury, attest the conc	ırrence
☐ NOT A TRUE E						
Date ///	13/18		Signature Of Gre	ngd Jury Forenerson		
AOC CD 422 Pay 4/	12		1			

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	NORTH CAR	DLINA			18CRS050658	
-	ASHE	County			General Court Of Just perior Court Division	
Name And Address Of	STATE VERSU	JS .			*	
BRIAN TROY AI 5493 THREE TOI	BERLE			INDICTN	IENT	
CRESTON		NC 28615	☐ This is a	a superseding indictment.		
Race W	Sex M	Date Of Birth 09/18/1972	I I I I I I I I I I I I I I I I I I I	supersealing indictment.		
	Offe	nse(s)		Date Of Offense OR Date Range Of Offense	G.S. No.	CL.
I. POSSESS WITH	I INTENT TO MANUFA	CTURE PRECURSOR - NO	Т МЕТН	06/21/2018	90-95(d1)(1)a	Н
II. FELONY MAIN	TAIN V/D/P CONTROL	LED SUBSTANCE		06/21/2018	90-108(a)(7)	I
possess an imm Sulfuric Acid, North Carolina  II. And the jurors above the def knowingly and used for the kee	nediate precursor chem with the intent to manual Controlled Substances for the State upon the fendant named above intentionally keep and	oath present that on or a unlawfully, willfully and ical, Ammonium Nitrate, C facture a controlled substant Act.  Their oath present that on a unlawfully, willfully and maintain a dwelling house ontrolled substance, Dimet	or about the feloniously of about the feloniously of located at 549 hyltryptamine	her Based Starting Fluids, tryptamine, which is included adde(s) of offense show hid at Three Top Road, Todd, which is included in Schools, which is included in Schools.	Hydrochloric Muriatic ded in Schedule I of the mand in the county in North Carolina, that we dule I of the North	Acid,
		WITN	ESSES	2 Deller	rger	\$200 A.M
☑ J. Stout (ACSO		and Entering		Industrial Control of the Control		
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						411-7-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2
A TRUE BILL	be.	n by the undersigned Fo and jurors, and I the und is Bill of Indictment.				
NOT A TRUE	BILL.					
11/13	18		Signature Of Gra	nd Jury Foreperson		
11-				100		

AOC-CR-122, Rev. 1/13 © 2013 Administrative Office of the Courts

### **U.S. District Court** Western District of North Carolina (Statesville) CIVIL DOCKET FOR CASE #: 5:19-cv-00024-FDW

Aberle v. Howell et al Assigned to: Chief Judge Frank D. Whitney Cause: Prisoner Civil Rights

Plaintiff

Brian Troy Aberle

Date Filed: 03/07/2019 Jury Demand: Plaintiff Nature of Suit: 550 Prisoner: Civil Rights Jurisdiction: Federal Question

represented by Brian Troy Aberle
Ashe County Detention Center 140 Government Circle Jefferson, NC 28640 PRO SE

V.

Defendant

B. Phil Howell Sheriff, Ashe County

Defendant

Sharon Price

Former Captain, Ashe County Sheriff's Office

Defendant

Jon Stout

Detective, Ashe County Sheriff's Office

Defendant

**Timothy Moretz** 

Ashe County Probation Officer

Defendant

Sherman M. Lee

Ashe County Magistrate Judge

Date Filed	#	Docket Text
03/07/2019	1	COMPLAINT against B. Phil Howell, Sherman M. Lee, Timothy Moretz, Sharon Price, Jon Stout with Jury Demand, filed by Brian Troy Aberle. (Attachments: # 1 Exhibits and Grievances, # 2 Envelope) (tmg) (Entered: 03/07/2019)
03/07/2019		AFFIDAVIT - 1983 Application IFP (Sealed - Participants) by Brian Troy Aberle (Attachments: # 1 Envelope) (tmg) (Entered: 03/07/2019)

## Kitchen

# Callitems removed from residence 1910+10 by 8B1, layed on tarps)

empty glass wals and various pieces of trash

- lab grade not Stirplate

- = 516 plassic bottle of Sodium hydroxide. Empty "mollys Products" ces
- plastic bottle c. Formic oxid, 100g, 3/4 full "Himedia"
- plastic container C. white beads, lubelled calcium
- IL bothe "Labonem" Sulferic acid. Full.
- metal funnel c. 3 rubber bulb
- 2002 L-ascorbic acid "resurection beauty"! Empty

- 1 gallon "Torco Race Fuels" Methanol. 3/4 Penl

- 2 1.7502 bottles of "Loctite" clean up solvent ( none)
- unopened 500g "Himedia" (alcilum nydroxide
- Zipb c. glass vial, bogtvial labeted pailadium
- amber gloss vial a off white powder
- 2 glass bottles c. white round pellets, both hand kibeled Ammon. Nitrate. nand
- -glass bottle c. clear round pellets labeled
- metal cooking pot c. bottle labeted organic food grade 35% hydroxy hydrogen peroxide, ferl, taped, possibly inopend

- 1 gal. Transchem Murigtic acid. /z full \*

- 2.5 lb bottle of "Animed" Ammon Chloride - full

- 216 bottle of "Potassium nydroxide ficeles". full

- dropper bothe labelled "sacrole" c. pine liquid (5)

-amberdropper lubeted "acetylaldenyde" c.

- amber nottle C. Clear liquid tabeled "kenokne" Smell like Hoppes gun cleaner (top labeled huppes)

- amber bottle subeled l'organic food grade hydrogen peroxide". fell (small)

- 502 bottle rubeled Citic acid. feel

- 1607 MCT oil, full

opened some sources source prenzoquinone. Full, never

- 1 kg p-formaldehyde (granular), fell "Electron 1)

- unopened wercanglil) oxide (small) full

- heat sealed food Soiver bag a neros of some kind

- Kitchen living evective not plate

- 21pb C.

- Zipb c. calibration log wt

econ madered a citiscoicia mand

- ZIPDC. White pills "labeled L- Nsing"

-21poc white powber latelled culcium hydraside

edite jume.

-ZIPIOC. Several brown flat pellets

Q-72-10 -Zlpb c. seeds (not-consistent w/ CS) Gor brown plant materia - Zipb c. white puwder kibeled Calcium hydride 28g" - large pb rubeled 'Peganum harmala' c. brown plant material 5 Lilo - 10 hot same almost empty. - ZIPID C. FILTER papers (10ffee) - empty mason jar hand labeled " Squst - Zempty glass jars w/ brown residue -3 1 gallon glass jars each c. clear liquid - all aqueous - plastic bothe neoz DMSO full - open (no lia) 2.5 lb "Davids Kosher Salt" /2 full - unopened IL "Chem Soivers" N. N-dimethyl Rolmide -7 glass jars each c. dark liquid. One is hand labeled "Syrian Rue" 4) neutral - 1 glass jar c. cloudy liquid (neutral) 3202 bottle 8890 Cactre Acid, full flammable - 2 glass jars each c. yellow liquid. (both reutral) - Iglass jar c. bilayed liquid (2) (28)-bottomidan) - aqueous neutral (28)-top-(clear) - Solvent flammable = glassjar c. light yellow liquid - revital - hand - glass jar c. dark liquid hand labeled ? labeled "Kero" Lneutral L solvent

- glass jar c. bilayered liquid(shard labeled 1/kero)

(38) bottom (dars) - aque as [ neutral

nand labeled post Deise 1 Freeze"

6 received

u N?". neutral | solvent

- empty glass jar labeled "Nap" c. dark residue

- glass-jar a peach colored liquid hand labelled

-glass jar c. bi layered liquid

-top(clear) - recettral (solvent

- bottom(dans)- neutral / aqueous

-glass jarc. bilayered liquio

- top ? laure scieur) - neutral / solvent

- bottom (black) - neutral aqueaus

plastic bottle c. brown "ount material labeled

- liquid Rive, lat. 15 full.

- glass bottle c. clear liquid [ bilayered) 4

- top (clear) - solvent [ neutral (4A) - bottom(clear) - aqueous [ BASICCAB)

glass pipet sticking of lid, corred + taped.

consistent w/ nomemorde vessel.

CNS Ce-22-18 by Lotro

- Zlpb c. white powder hand labeled ilmsmi

- 116 sapp c. 'cellar Science' tartainc acid Constalline materia 1

- amber both wil liquid residule
- small amber bother williquid
- amber bottle, empty, hand labeled " Synan Duo Hzd"
- = 5 lbs Citric Acid, unopened
- 7 zlpb's c. frozen liquid material. Lyellow, dark
- etiproun) - 3 plassic bottles c. frozentiquid material.
  - " alleg said to be unite"
- Zipb Clarge) 1/2 full c. ground plant like mat
- foil zipb kibeled "Myrrh" resin 116 &
- 21pb C.
  - foil packet eurycoma' longifolia' jack 25g (unopened)
  - ZIPBC. tan powder labeled "Tong Kat 100:1-1
  - -3 ZIPD'S each c. clear

empty capsules

- 21pb lubered " Rue extracts"
- Zipo c. Unal c. Liquid iniconol extracti
- Zipb hand labeled "water extract"
  - 5 capsules, c. brown material
- ZIPB c. foil packet labelled "Harmala" - 2 large c. tan powder

CAS 422-18 = 2 electric hot plates py le of 10 - i gai bottle 42 felli clear liquia - 1 gal bothe of "Clorox" - ZIPB hand abeled Il Piss do per c. S capsules each c. brown black material - 2 not plates - 21pb c. empty clear capsuls - Several empty 21063 - plastic tubing (several feat) - cut open camp such container, emply - 1 you sothe almost empty hand labeled diesel ferel yellow liquia ( Tinegar) - Igul Clean Strip 11 VM & PNaptna" Yzcul 1 = 14 of purso (dimethy) sulfaxides 1/2 full - large turkey baster - bull plastic piping - several years gipes wil dark residue - pt male - glass resident titration funnelties - plastic measuring ar - round separtery glassware - not plate - glasswave Stand c, round buttern fast -glas distillation ture (Gittratten?) (2) - copper-tubing - glass stand - Syran Rue labeled empty grass jar

- glass bottom for a feel + lantem, full 1972-18 yellow liquid - glass jar c. brown reside - grass tube we wood cont on end Living Room - ZIPD C. Charcol like material, hand labeled "128 q" - ZIPB ". Hg pure DMT" (hand labeled) (1) CRS 7-10-18

- ZIPB (hand labeled "3008g") C. brown

malena ( Hem # 1 ces 7-10-18 matera 1 - ZIPB labeled "Anadenanthera peregrina" 1 Kilo (4000 seeds") 3/4 pull - digital scale - Zipo C. diry glass = zipb hand labeled "Frankinsense" (off white nara material (2) - Zips hand labeled " one time Rue" c. snown material 21 po hund lubelled "Syrian Rue Seed Stin" C. tive prown unteryor - 2 Synraes - 3 zlpb not labelled c. brown makinal - (Zipb c. Several emply other carpsone

- ZIPBC, pink crystalline muteria crocklike

- Zlps c. fan rock like mathal

- lurge zlpb c, bown powder

- zlpb c. orange powder

-3 plassic container lubeled " kabukina Rape" produced 250 -011 a house of miles 25g - au c. brown powder

- large metal cooting pot e. black granular

material

- ZIPB labeled "galanual 100+"> plunt like material

- vox "corden" c. several syringes

- empty coleman feel (1991)

- empty Klean Strip Xylene" Igil

- empty crown Paint thiner Igas (mineral vils)

- empty Jaxo VM + P napthor 19+

- Several feet plustic tubing

- glass jar c. dark yellow liquid (is layered) -top (clear)

- bottem (dureyellow)

- 1 gal glass jar full dear liquit

- glas jar hand lubbed renol Diexellaus

- grass sar latiselel 1/2 gull peuch covered

- grass jar " Syrian Rue", "in full dark

liquid - 2 uniorbeled liquer pottle), cull /4full, clear Garios

- homewade bundy

- pulpinside gravijar

- burnt muterial on tracy on top

M 0000 - large glass separatery sunnel colleur liquid. Attached to gravinoure stand

BUTSIAR front porch. - 2 Igai glass pars c. dark liquid both 1/2 fell. One hund labeled "glas" - plassic bottle c. of white sludge material - Z plasaic funnels - Varige paint bucket up plassic i'd & pour spout c. daik hand - (2) - PH beisic - 2 large Storage containers, several agillors, - U large plasax storage containes c. several (100,8m) grass pur , empty - 4 paint buckets c clear, cloudy, yellow Liguid. - 3 Igui glass jak full liguid

2 denv

- I dan

- 1) finished product

  Plastic bay hand labeled "Prut". CRS 7-10-18

  Plastic bay hand labeled "300" g" c. brown

  material
- 2) Bi-layered liquid top-licomi ] sampled from each
- 3) Bilayered liquid top-500ml J sampled from bottom-250ml botto
- Bi layered liquid top-som! -> sampled bottom - took all
  - 5) medicine dropper bothe c. liquid

Neurodegenerative Disease Cure 2018. Attachment "A"
Published at Research Gate. NET Author: Brian Aberle

Cases of Alzheimer's disease are expected to triple by 2050[0]. Neurodegenerative diseases are increasing around the world. [1] The most common degenerative nerve diseases are: [Alzheimer disease, Multiple Sclerosis, Parkinson disease, Lewy Body Dementia, Frontotemporal Dementia, Amyotrophic Lateral Sclerosis(ALS), Huntington Chorea, and Prion Diseases]. Neurofibrillary tangles and many kinds of striatal amyloid plaques are identifiers Alzheimer's and Parkinson's and Dementia. This nerve damage causes loss of motor control and loss of memory.

A mild case of neurodegeneration has been presumed to be normal aging — The term "Senior Moment" is in the dictionary. Cognitive aging may actually be an earlier stage of Parkinson's or another neurodegenerative disease as opposed to a normal aspect of aging like grey hair.[3] Dementia affects 1 in 20 people over the age of 65. The age-specific incidence of dementia in the UK increases from 7/1000 per year at age 65 to 85/1000 per year at age 85.[6] In a US study, about 2.5% of subjects aged 65 to 74 years had a clinical diagnosis of senile dementia compared to 4% of those aged 75 to 79, 11% of those aged 80 to 84 and 24% of those aged 85 to 93.[7] Additionally, many more people suffer from mild cognitive impairment that does not progress to dementia.

In the late 1990's it first became accepted knowledge that humans have the ability to create new neurons. I was previously thought that we were born with all the neurons we will ever have and that we can only lose them, however we now know of the process called neurogenesis.[9][10] It is now known that medicines causing the inhibition of the acetylcholinesterase (AChE) enzyme improve cognitive abilities for neurodegenerative diseases. AChE inhibitors currently serve as front line medication for Parkinsons and Alzheimers. They also have been found to improve behavioral and psychological symptoms of dementia. [2]

To aid in the understanding cholinergic principles, consider Datura Stramonium from the nightshade family which is an anticholinergic agent, a substance that blocks the neurotransmitter acetylcholine. Classified as a deliriant, it causes bizarre behavior and pronounced amnesia. The effects from Datura poisoning generally last from 24-48 hours and in some cases, it can last 2 weeks. [13] The common-knowledge antidote is a reversible cholinesterase inhibitor, Physostigmine, interestingly - acquired from the poisonous Manchineel tree. [14]

There are multiple reversible AChE inhibitors that have varying methods of action based on their classification of competitive, noncompetitive, or a degree of mixed inhibition that determines the duration and bonding affinity between the inhibitor and the acetylcholinesterase enzyme. As of 2018, three acetylcholinesterase (AChE) inhibitors donepezil, galantamine and rivastigmine are recommended as options for managing Alzheimer's disease. Guidance note 1.4 says "If prescribing an AChE inhibitor (donepezil, galantamine or rivastigmine), treatment should normally be started with the drug with the lowest acquisition cost" [12]

Deoxypeganine is an Alkaloid from Syrian Rue (Peganum Harmala), a plant used extensively in traditional medicine in lands with an Islamic heritage for CNS and other ailments. This compound is shown to have acetylcholinesterase inhibitory activity twice that of Galantamine." [15] This knowledge is not being utilized by mainstream medicine. Additionally, it has been proven that harmane, harmine, and harmaline, the main active constituent in Syrian Rue, had good selective inhibitory activities against acetylcholinesterase. [17] 80 extracts were screened for AChE inhibitory activity by a TLC bioautography method. The inhibiting effect of the 32 most active extracts was measured by a microplate colorimetric assay. Due to the best activity, the seeds of Peganum harmala L. were investigated in detail. [11]

In 2017 mankind first discovered 10 additional alkaloids in Peganum harmala. Their alkaloids structures, including stereochemistry, were elucidated through spectroscopic analyses, quantum chemistry calculations, and single-crystal X-ray diffraction. [18] In the Tihkal under the harmaline entry it mentions that the effects of pure harmaline by itself, differ from the effects of *Peganum harmala* whole seeds. Shulgan wrote, "They are very different from one-another." Other researchers concur with Shulgans findings.

It has also been noted by experiential researchers that the inhaled effects from Syrian Rue smoke differ from oral digestion. It is possible that heat decarboxylates part of the medicine as is the case with tetrahydrocannabinol. [19] Interestingly, it has also been shown that the main active ingredient in cannabis, tetrahydrocannabinol (abbreviated THC), is also a competitive inhibitor of acetylcholinesterase. [16] Furthermore, In Islam, according to the Shi'a hadith, Muhammad was commanded by God to have his people ingest Syrian Rue for bravery. This Hadith is interesting in the present connection because it is followed by the recommendation not that it be ingested, but that it be burned as incense instead. In an older text, another hadith indicates that Syrian Rue was consumed orally in a drink made with milk. [20] Because it is known that Syrian Rue contains a minimum of 4 different alkaloids which act as acetylcholinesterase inhibitors, and it is known that there are subtle differences in each inhibitors selectivity and duration, it would reason that the seeds as a whole are a more effective medicine than any alkaloid that is singled out from them. Leonardo da Vinci wrote that Syrian Rue is "miracle smart nutrient" and he was neither Islamic nor aware of neurofibrillary tangles and amyloid plaques. Syrian Rue apparently flosses your neurons and brushes your brain.

Syrian Rue is not the only natural plant medicine. Marijuana[16] is scientifically known to be in the same medicinal category as donepezil, galantamine and rivastigmine which are the leading prescriptions for the leading problem plaguing humanity as we enter 2018. Sacred Plant medicines will be recognized as we exit 2018. Levels of neurotoxic b-amyloid peptides are significantly decreased in postmortem examinations of Alzheimer's victims.[4] Nicotine produces clarity and cognitive improvement when the Nicotinic acetylcholine receptors(nAChRs) are activated.[5] The tobacco plant has greater medicinal activity when used as a snuff for insufflation.

Coffee, tea, and caffeine consumption have been found to have preventive effects on cognitive decline and dementia. Beyond the short-term enhancing effects, some studies examined the long-term effects and showed that coffee, tea, and caffeine consumption could contribute to protect against late-life cognitive decline and dementia. [8] It was discovered that there is a neuronic layer routing electrical neuroblasts in stimulated neurons near neurogenesis. [21] Electrical activity also stimulates the making of small fibers that assist the migration of newborn neurons [22] Exciting the neurotransmitters serotonin, acetylcholine, dopamine, and glutamate have been identified as factors in stimulating neurogenesis. [23] We have known for a while that exercise produces serotonin and dopamine. [24] We know now that introducing those neurotransmitters also promotes neurogenesis. Increased neurogenesis has been observed by both enriched environment stimuli and exercise. [25]

Antidepressant Treatment Increases Hippocampal Neurogenesis [26]. Others have confirmed the induction of neurogenesis by antidepressant drugs. [27] [28] Antidepressants that enhance serotonergic signaling stimulate hippocampal neurogenesis by a mechanism that may involve upregulation of BDNF. These drugs raise serotonin and dopamine levels. Interestingly, the strongest type of Antidepressant is inhibition of monoamine oxidase, an MAOI. Due to the dangers of synthesized pharmaceutical

irreversible MAOI's they are only prescribed as a last resort. Therefore, Syrian Rue is a multi-faceted medicine for promoting neurogenesis because it also functions as a very potent reversible MAOI medicine.

One study finally looks beyond the acetylcholinesterase inhibition aspect to study the whole-medicine cerebroprotective effect of the isolated total alkaloid extract of Peganum harmala by its antioxidant characteristic in ethanol influenced oxidation by increasing the GSH and decreasing the TBARS level in whole brain, which delays the neurodegenerative process. The cerebroprotective effect was further adorned by its MAO-A inhibitory action, by which it influences the effects of epinephrine and other monoamines. It prevented the DNA fragmentation of frontotemporal cortex of the brain by decreasing in the internucleosomal DNA fragmentation and lowering the laddering pattern. Hence, all these preventive measure of harmal alkaloids of seeds of Peganum harmala are potential enough in the management of Neurodegenerative disorders of the type Alzheimer's diseases.[29]

If binding more serotonin at receptor sites promotes neurogenesis it is likely that plant sources of natural analogs of Dimethyltryptamine(DMT), which are psychedelic tryptamines or serotonergic psychedelics, such as 4-AcO-DMT, 5-MeO-DMT, 5-HO-DMT, psilocybin (4-PO-DMT), and psilocin (4-HO-DMT) binding to the same receptor sites as serotonin, may also promote neurogenesis.

Finally, sex hormones (estrogen and testosterone) may directly and/or indirectly affect neurogenesis in the aging brain. For example, estrogen levels decline abruptly in post-menopausal women not receiving hormone replacement therapy. Estrogen deprivation significantly reduces hippocampal BDNF levels in the female rat hippocampus; Estrogen alone promotes proliferation of both embryonic and adult neural stem cells (Brannvall, 2002). Similarly, men experience an age-related decline in testosterone levels. Testosterone promotes neurogenesis in the adult songbird neostriatum (Louissaint *ci al.*, 2002)

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- [4] https://www.ncbi.nlm.nih.gov/pubmed/12065674
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[11] Phytotherapy Research Volume 25, Issue 8 August 2011 Pages 1148–1152, DOI: 10.1002/ptr.3409 L. Krenn, Dept of Pharmacognosy, University of Vienna, Althanstrasse 14, A-1090 Vienna, Austria. <a href="http://onlinelibrary.wiley.com/doi/10.1002/ptr.v25.8/issuetoc">http://onlinelibrary.wiley.com/doi/10.1002/ptr.v25.8/issuetoc</a>

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- [15] Selected Topics in the Chemistry of Natural Products, World Scientific, Ikan, R., 2008 ISBN 9812705694, 9789812705693 https://www.scribd.com/doc/64041095/Chemistry-of-Natural-Products
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Acetylcholinesterase and Butyrylcholinesterase Inhibitory Activities of β-Carboline and Quinoline Alkaloids Derivatives from the Plants of Genus Peganum Volume 2013 (2013), Article ID 717232, 6 pages <a href="https://www.hindawi.com/journals/jchem/2013/717232/">https://www.hindawi.com/journals/jchem/2013/717232/</a>

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DOI: 10.1021/acs.jnatprod.6b01146 Pub Date: January 27, 2017
The American Chemical Society and American Society of Pharmacognosy <a href="http://pubs.acs.org/doi/abs/10.1021/acs.inatprod.6b01146">http://pubs.acs.org/doi/abs/10.1021/acs.inatprod.6b01146</a>

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Investigation of the alkaloids from Peganum harmala seeds yielded two pairs of unique racemic pyrroloindole alkaloids, (±)-peganines A-B (1-2); two rare thiazole derivatives, peganumals A-B (3-4); six new ß-carboline alkaloids, pegaharmines F-K (5-10); and 12 known analogues. Their structures, including stereochemistry, were elucidated through spectroscopic analyses, quantum chemistry calculations, and single-crystal X-ray diffraction.

J. Nat. Prod., 2017, 80 (2), pp 551-559 DOI: 10.1021/acs.jnatprod.6b01146 Pub Date: January 27, 2017 The American Chemical Society and American Society of Pharmacognosy

Pure harmaline is only part of the medicine. Vasicine is an expectorant and antitussive(cough medicine) and bronchodilator treating bronchitis and asthma by dilating the airways and improves overall lung functions. That makes the remaining alkaloids more easily inhaled.

Syrian Rue smoke is used for the treatment of catarrhal diseases in the sinus cavity. Experiments prove that the smoke stops bacteria reproduction. It is bacteriostatic for the bacterial strains responsible for typhoid fever, dysentery, and other diseases.

P. K. Alimbaeva and A. V. Goncharova, Wild-Growing Medicinal Plants of Kirgisia, Frunze (1971), p. 88; I. Isamukhamedov and N. Sharakhimov, in: The Pharmacology of Alkaloids and Their Derivatives, Tashkent (1972), p. 187.

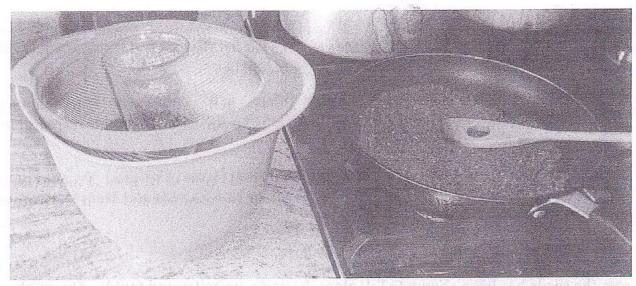
Smoke from the seeds has been shown to kill algae, bacteria, parasites and molds. The smoke was studied using gas chromatography and mass spectroscopy analysis.

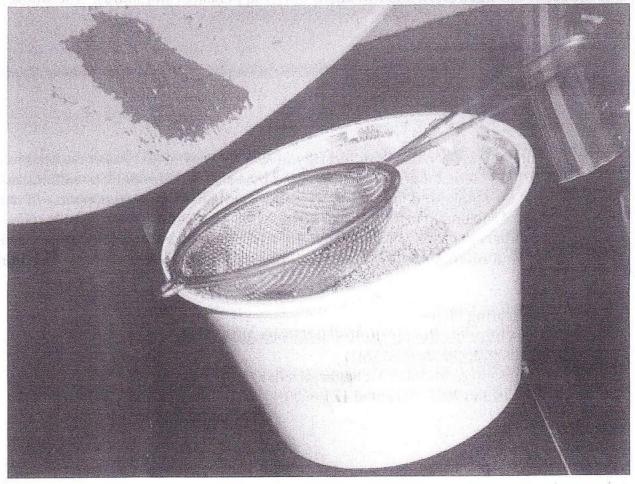
Degruyter Volume 60, Issue 9-10 (Oct 2005) Ahmad R. Shahverdi, Hamid R. Monsef-Esfahani, Bahman Nickavar, Lila Bitarafan, Samira Khodaee, and Narges Khoshakhlagh

Peganum harmala L. smoke has been used traditionally in Middle Eastern and Asian countries as a disinfectant and air purifier. Here, the smoke was collected by a simple, reproducible method, and its chemical constituents of the smoke and volatile oil were analyzed. The major components of P. harmala smoke were a-pinene (60.4 %), limonene (6.4 %) and styrene (4.2 %) and those of the volatile oil were apinene (72.6 %), trans-verbenole (3.9 %) and sabinene (2.6 %). Styrene and some other components with potential antimicrobial and immunomodulatory activities were found in the smoke but not found in the volatile oil.

Journal of Essential Oil Bearing Plants Volume 16, 2013 - Issue 4 http://dx.doi.org/10.1080/0972060X.2013.813241 (http://dx.doi.org/10.1080/0972060X.2013.813241) Pouya Faridi, Younes Ghasemi & Abdolali Mohagheghzadeh Pages 469-473 | Received 01 Jan 2012, Accepted 17 Jun 2012

If you wish to prepare the seeds to smoke (or to get the most out of them) – grind the seeds against a metal screen to collect the brown powder that falls off. Sift the powder through a fine steel mesh kitchen colander to filter out chunks, stems, and other impurities. Lightly toasting the seeds before grinding them significantly simplifies the process. Toasting essentially dries the seeds. The outermost layer of the seed comes off the dried/toasted seeds with little effort. I have found that using a small glass jar to grind the seeds against the screen colander will shave off the outer skin. The smokable powder is caught under the screen. If you don't smoke, you can put that powder into gelcaps to consume it without tasting it. After the seeds have had most of the skin scraped off, the seed with some skin remaining is perfect for a water (or alcohol) extract, which will almost thoroughly devoid the seed of all remaining harmala (without needlessly crushing the pit of the seed).





Research – World Wide – Syrian Rue

P. harmala has appreciable efficacy in destroying **intracellular parasites** in the vesicular forms. Because of its appreciable efficacy in destroying intracellular parasites as well as non-hepatotoxic and non-nephrotoxic nature, harmine, in the vesicular forms, may be considered for clinical application in humans.

Journal of Drug Targeting, 2004 Apr;12(3):165-75. Lala S, Pramanick S, Mukhopadhyay S, Bandyopadhyay S, Basu M

In this study, we investigated the protective effects of Peganum harmala seeds extract (CPH) against chronic ethanol treatment. Hepatotoxicity was induced in male Wistar rats by administrating ethanol 35% (4?g/kg/day) for 6 weeks. CPH was co-administered with ethanol, by intraperitonial (IP) injection, at a dose of 10?mg/kg bw/day. Control rats were injected by saline solution (NaCl 9‰). Chronic ethanol administration intensified lipid peroxidation monitored by an increase of TBARS level in liver. Ethanol treatment caused also a drastic alteration in antioxidant defence system; hepatic superoxide dismutase (SOD), catalase (CAT) and glutathione peroxidase (GPx) activities. A co-administration of CPH during ethanol treatment inhibited lipid peroxidation and improved antioxidants activities. However, treatment with P. harmala extract protects efficiently the hepatic function of alcoholic rats by the considerable decrease of aminotransferase contents in serum of ethanol-treated rats.

Archives of Physiology and Biochemistry – The Journal of Metabolic Diseases
Volume 121, Issue 2 Published online: 14 May 2015
Ezzeddine Bourogaa, Raoudha Mezghani Jarraya, Mohamed Damak & Abdelfattah Elfeki
<a href="http://dx.doi.org/10.3109/13813455.2015.1016974">http://dx.doi.org/10.3109/13813455.2015.1016974</a> (http://dx.doi.org/10.3109/13813455.2015.1016974)

Mice? It was 1999 then - from mice to men that is evolution in the end.

Peganum harmala seed extracts also show effectiveness against various tumor cell lines, both in vitro and in vivo. Results obtained indicate that alkaloids of Peganum have a high cell toxicity in vitro. The active principle at a dose of 50 mg/kg given orally to mice for 40 days was found to have significant antitumoural activity. Peganum harmala alkaloids thus possess significant antitumour potential, which could prove useful as a novel **anticancer therapy**.

1999 Nov-Dec;54(6):753-8. Lamchouri F, Settaf A, Cherrah Y

Plant derived agents may exert a new approach to the treatment of **leukaemia**. The present study was an evaluation of proliferation, cytotoxicity and differentiation of harmine and harmaline on HL60 cells, alone or in combination with ATRA and G-CSF. Counting of cells, viability, MTT assay, morphology, NBT reduction and flow cytometry analysis were performed using CD11b and CD 14 monoclonal antibodies. The data showed that harmine and harmaline reduced proliferation in dose and time dependent manner. This shows that the direction of differentiation is dominantly determined by ATRA. These **preliminary** data implies a new approach in treatment of leukemia.

Archives of Pharmacal Research July 2007, Volume 30, Issue 7, pp 844 Farhad Zaker, Arezo Oody, Alireza Arjmand

21(68,317

Twelve indole alkaloids, including two novels, were purified and identified from P. harmala. The chemical structures were determined by spectroscopic and chemical methods. The cytotoxicities against five human leukemia cell lines were assayed for the alkaloids. Some alkaloids showed potent cytotoxicity against human leukemia cells. Harmalacidine (HMC) showed the highest cytotoxicity against U-937, which could induce cell apoptosis. The results suggest that the alkaloids have perfect selectivity for human leukemia cells.

Toxins (Basel). 2017 May; 9(5): 150.
Published online 2017 Apr 28. doi: 10.3390/toxins9050150
Yuan Li, Yunli Zhao, Xia Zhou, Wei Ni, Zhi Dai, Dong Yang, Junjun Hao, Lin Luo, Yaping Liu, Xiaodong Luo, and Xudong Zhao

The beta-carboline alkaloids present in medicinal plants, such as Peganum harmala and Eurycoma longifolia, have recently drawn attention due to their antitumor activities. Further mechanistic studies indicate that beta-carboline derivatives inhibit DNA topoisomerases and interfere with DNA synthesis. Moreover, some beta-carboline compounds are specific **inhibitors of cyclin dependent kinases** (CDKs). In this study we used budding yeast as a model system to investigate the antitumor mechanism of beta-carboline drugs. We found that DH334, a beta-carboline derivative, inhibits the growth of budding yeast.

Cancer and Biological Therapy, 2007 Aug;6(8):1193-9. Epub 2007 May 4.Li Y, Liang F, Jiang W, Yu F, Cao R, Ma Q, Dai X, Jiang J, Wang Y, Si S.

We report the in vivo antioxidative properties of the aromatic (harmane, harmine, harmol) and dihydrobeta-carbolines (harmaline and harmalol) studied by using Saccharomyces cerevisiae strains proficient and deficient in antioxidant defenses. Their antimutagenic activity was also assayed in S. cerevisiae and the antigenotoxicity was tested by the comet assay in V79 cell line, when both eukaryotic systems were exposed to H(2)O(2). We show that the alkaloids have a significant protective effect against H(2)O(2) and paraquat oxidative agents in yeast cells, and that their ability to scavenge hydroxyl radicals contributes to their antimutagenic and antigenotoxic effects.

Mutagenesis. 2007 Jul;22(4):293-302. Epub 2007 Jun 1. Moura DJ, Richter MF, Boeira JM, Pêgas Henriques JA, Saffi J

Gamma-harmine exhibited relatively good radioprotective effect. Gamma-harmine is the first alkaloid isolated from a plant having protective effects against whole-body lethal irradiation in mice

Yao Xue Xue Bao. 1995;30(9):715-7..

A 2016 study investigated the **antimicrobial** activity of Harmal (*Peganum harmala*) aqueous extracts against two fungi (*Aspergillusniger* and *Peniciliumitalicum*) and two Gram negative bacteria (*Escerichia coli* and *Salmonellatyphi*). The Harmal methanolic extracts were found to inhibit mycelial radial growth of both fungi. This effect was found to be significant at first day of the experiment as well as the last days. Mycelial fresh and dry weights of both fungi were also greatly reduced with *harmal* extracts. The higher

concentration of Harmal gave the maximum effect which decreased with dilution. The effect on mycelial growth was more pronounced on *P.italicum* than on *A.niger*. The effect of Harmal leaves extract on the two bacteria (*E.coli* and *S.typhi*) was evaluated by the inhibition zone and dilution methods. A clear zone of inhibition was shown by the extracts against both bacteria, although the inhibition was less against *E.coli*. The results of the dilution plate method showed that the log number of colonies of both bacteria was highly decreased with Harmal extract; however, *S.typhi* was more susceptible and greatly affected by the extract.

Journal of Microbiology Research, p-ISSN: 2166-5885 e-ISSN: 2166-5931, 2016 Abdel Moneim E. Sulieman, Ahmed A. Alghamdi, Vajid N. Veettil, Nasir A. Ibrahim

According to test results, P. harmala seeds extract showed **potent antioxidant** activity with IC50 values ranging between 40-129  $\mu$ g/ml. In case of antibacterial assay, P. harmala seeds showed better inhibitory activity than leaves against both strains i.e. Staphylococcus aureus and Pseudomonas aeruginosa with values ranging between 70 to 100% while in case of **antifungal** assay water-acetone extract of seeds showed significant antifungal effect against Aspergillus niger. In terms of cytotoxic assay, hexane extract of seeds of were more cytotoxic against shrimp larvae (LD50 = 57.07  $\mu$ g/ml). Aqueous extract of leaves of and acetone extract of seeds showed < 80% mortality in antileishmanial assay. GC-MS analysis revealed that leaves and seeds contain some important biological metabolites. It is concluded that selected plants could be a potential source of antileishmanial, antibacterial, antifungal and anticancer lead compound. Hence it is indicated to further investigate this plant in vitro as well as in vivo for new drug discovery.

International Journal of Biosciences, 9(1), 45-58, July 2016.

DOI: http://dx.doi.org/10.12692/ijb/9.1.45-58

(<a href="http://dx.doi.org/10.12692/ijb/9.1.45-58">http://dx.doi.org/10.12692/ijb/9.1.45-58</a>)Zainab Gul Kanwal, Abdul Hafeez, Ihsan Ul Haq, Tofeeq-Ur-Rehman, Syed Aun Muhammad, Irum Shazadi, Nighat Fatima, Nisar Ur Rehman

Introduction: Benign prostatic hyperplasia (BPH) is considered as a major cause of lower urinary tract symptoms (LUTS) in older men and its most common sign is nocturia. Objectives: This study aimed to determine the effect of the seeds of Peganum harmala compared with tamsulosin on alleviating urinary symptoms in patients with BPH. Patients and Methods: In this single blind clinical trial study, 90 patients diagnosed with BPH and LUTS, based on international prostate standard survey (IPSS) were divided into three groups. The first group was received oral capsule of P. harmala, the second group was administered tamsulosin with oral P. harmala seed and the third group was received tamsulosin drug and they were evaluated after 4 weeks. Results: The results showed that the difference between mean scores of IPSS was significant after the intervention (P=0.001). Besides, the mean of IPSS in the three groups was significantly different (P=0.001) (the first group 41.9±5.3, the second group 21.0±4.4, the third group 16.5±3.7 respectively). However, after the intervention, patients in the second group had the lowest average on most indicators of IPSS but the difference was only significant about urinary frequency, nocturia and intermittency(P<0.05). Conclusion: Application of Peganum harmala seed can be useful in reducing urinary symptoms in patients with BPH.

Journal of Renal Injury Prevention 2017;6(2):127-131. PMID: <u>28497089</u> (<a href="http://www.ncbi.nlm.nih.gov/pubmed/28497089">http://www.ncbi.nlm.nih.gov/pubmed/28497089</a>) Majid Shirani-Boroujeni, Saeed Heidari-Soureshjani, Zahra Keivani Hafshejani

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Syrian Rue exhibits antisecretory and cytoprotective properties and is successfully treating gastric ulcers.

Phytomedicine Volume 20, Issue 13, 15 October 2013, Pages 1180-1185 Biochem Biophys Res Commun. 2011 Jun 3; 409(2):260-5

Two different studies showed bone anabolic effects of harmine. These findings suggest that harmine, as the main alkaloid of P. harmala, may be useful for treatment of some bone diseases. Harmine promotes osteoblast differentiation through bone morphogenetic protein signaling.

Yonezawa T, Lee JW, Hibino A, Asai M, Hojo H, Cha BY, Teruya T, Nagai K, Chung UI, Yagasaki K, Woo JT
European Journal of Pharmacology 2011 Jan 15; 650(2-3):511-8.

Using X-ray crystallographic analysis, Ten new alkaloids (peganumine B-I and two enantiomers), containing five  $\beta$ -carbolines, three quinazolones were isolated from the ethanol extract of Peganum harmala seeds testing their measured potential cytotoxicity and **cholinesterase inhibitory** activities.

DOI: 10.1039/C6RA00086J (https://doi.org/10.1039/C6RA00086J) (Paper) RSC Adv. (https://doi.org/10.1039/2046-2069/2011), 2016, 6, 15976-15987
Ya-di Yang, Xue-mei Cheng, Wei Liu, Zhu-zhen Han, Gui-xin Chou, Ying Wang, Du-xin Sun, Zheng-tao Wang and Chang-hong Wang

Rats? Diabetic humans has been done already....

In 2016, a study indicated that hydroalcoholic extract of Peganum harmala seeds possesses antidiabetic and hypolipidemic activities in streptozotocin-induced diabetic male rats.

Cholesterol, Volume 2016 (2016), Article ID 7389864, 6 pages Gholamreza Komeili, Mohammad Hashemi, and Mohsen Bameri-Niafar

Rats again... I have never heard of a human Parkinson's Disease study with Syrian Rue, I expect to see one in 2018 if not by the close of 2017.....

Another 2016 study finds Peganum Harmala L. Extract Reduces Oxidative Stress and Improves Symptoms in 6-Hydroxydopamine-Induced Parkinson's Disease in Rats.

Iran J Pharm Res. 2016 Winter;15(1):275-81. PMID:27610168 PMCID:<u>PMC4986102</u> (<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4986102/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4986102/</a>)
Rezaei M, Nasri S, Roughani M, Niknami Z, Ziai SA.

A 2016 study found that Syrian Rue fights **dental plaque**. An ethanolic extract of *P. harmala* can inhibit the growth of *S. mutans*. Despite the higher inhibitory effect of 0.2% chlorhexidine compared to 50 mg/mL of this extract, other studies indicate that higher concentrations of *P. harmala* extract can have

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Research - World Wide - Syrian Rue

similar or greater inhibitory effect against microorganisms. However, high cell toxicity of this extract on cells limits the use of this plant as an antimicrobial agent (like mouthwash) in oral cavity. Even if limited to low concentrations, either lonely or in combined preparations, its application might be more useful for resistant bacteria compared to the routine available mouthwashes. Further antimicrobial and cytotoxicity studies on animals or human subjects are needed to obtain more accurate and applicable results.

Journal of dentistry (Shiraz), 2016 Sep; 17(3): 213–218. PMCID: PMC5006831 Mohammad Motamedifar, Hengameh Khosropanah, and Shima Dabiri

The extract of Peganum harmala was used topically to treat certain **dermatoses** of inflammatory nature. Results were encouraging and proved the antibacterial, antifungal, antipruritic and probably antiprotozoal effects of the extract.

International Journal of Dermatology, May 1980, DOI:10.1111/j.1365-4362.1980.tb00305.x El-Saad El-Rifaie M

In very very extremely large doses, Syrian Rue is an abortifacient in humans.

In a study on cattle, the curative effect of P. harmala was better than that of diminazene aceturate and produced minimal side effects **proven safe for pregnant animals**. It was concluded that the total alkaloid of P. harmale showed a marked effect as a treatment for haemosporidican infections in cattle.

Trop Anim Health Prod. 1997 Nov;29(4 Suppl):72S-76S. Hu T, Fan B, Liang J, Zhao S, Dang P, Gao F, Dong M

(http://www.sciencedirect.com/science/article/pii/S2210909915300953#!) (http://www.sciencedirect.com/science/article/pii/S2210909915300953#!)

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