



**Navyug Vidhyabhavan's Trust**

**C. K. Pithawalla Institute Of Pharmaceutical  
Science & Research, Surat- 395007**



*Honourable Late. Shri. Chhotubhai K.  
Pithawalla  
(Founder & President)  
Navyug Vidyabhavan Trust, Surat*

## Editor's Message



**Prof. Dr. Mahesh. G. Saralaya**  
**Principal,**

**C. K. Pithawalla Institute of Pharmaceutical Science  
and Research, Surat.**

It gives me an immense pleasure to present the Institute CKPIPSR-bulletin 2017 proudly with its unique creation in the form of the Bi-Annual bulletin every year which serves as a platform to highlight the literary and artistic segment of the CKPIPSR-family. Besides, the bulletin forms a bridge between flowing thoughts and artistic magnification. The bulletin also highlights the educational, cultural and sports activities of the Institute.

The management and the staff have been supportive of the various activities that were undertaken by the students in view of helping them reach the pinnacle of perfection and professionalism in whatever task they took on thus strengthens our journey of achieving excellence.

The college has been simply unstoppable in its progress as it has been actively involved in various activities that have brought to light the hidden talents of the college students and staff. The highly qualified and dedicated members of staff have always stood shoulder with the Principal and it is always a pleasure to be a part of a team which strives to bring out the talents of students.

I am sure the college will scale even greater heights in the years to come and serve many more millions in the society.

Congratulations to **Ms. Falguni Rathod (Dept. of Pharmacognosy)** **Assistant Professor, Co-editor/Co-ordinator of CKPIPSR Newsletter** and my team for their determined efforts in bringing out this Newsletter.



## Co-editor's Message



**Ms. Falguni N. Rathod**

**Assistant Professor,**

**(Department of Pharmacognosy)**

Dear CKPIPSR Students and Readers;

Welcome to **E-Newsletter, Volume-10, Issues-I, 2018.**

It is with great pleasure that I am here to welcome you to **CKPIPSR e-newsletter Volume 10, Issue I, 2018.**

It gives me immense pleasure in bringing out the E-newsletter. The **e-newsletter** has includes academic excellence, students achievements, scientific articles, extra-curricular activities and events organized by the institute.

I would like to express our sincere thanks to Respected Principal Sir, **Prof. Dr. Mahesh G. Saralaya** for giving us an opportunity and reliable guidance to Co-ordinate this e-newsletter. I also thank our colleagues, students and staff for their co-operation, support and encouragement during compilation of this e-newsletter.

Once again, I would like to thank all of those individuals who are, or have been, associated with the E-newsletter and I look forward to many more of publishing the E-newsletters in the future. Suggestions and Criticism for further improvement will be welcome.

We hope you all enjoy reading it as much as we do.

## Gesture to Profession

### Late Dr. C. L. Kaul, the founder Director of NIPER, Mohali



In building this institute of National Importance, Dr. Kaul used his rich experience of working with research Institutions within the country and abroad through his associations with industry and educational bodies.

**Date of Birth:** 10<sup>th</sup> October, 1936

**Place of Birth:** India

**Occupation:** as professor and Research scientist

**Educational Track:** College: B.Sc. at Punjab University, Chandigarh, B. Pharm from Gujarat University

**Higher study:** PhD in Pharmacology in 1978 from University of Glasgow at U.K.

**Work experience:** After doing post – doctoral research at University of Glasgow at U.K., he worked as a visiting professor at various institutes in Pharmacy.

He worked as research Scientist and group leader in Ciba Geigy Research Centre, Mumbai and then as the Director of R&D BOOTS Pharmaceuticals Limited, Mumbai.

He joined NIPER as the founder Director on 1 September 1994 and served for a period of 10 years and superannuated on 31st August 2004.

His research work spans over 4 decades centred on pre-clinical studies of new drugs, stability, bioequivalence, formulations Q.A. and Q. C.

He published more than 150 original research articles in peer reviewed journals and 20 patents during 60 years research carrier.

His main areas of interest were hypertension, diabetes, autonomic pharmacology clinical research and tropical medicines.

Dr. Kaul was an advisor to Pharmaceutical industry and a visiting professor and member/Chairman of several governing bodies and of pharma academic institutes.

He was very active professionally and was a member of several scientific organisations. Dr. Kaul is very active professionally, was President of IPA 94-96, Editor OF IJPS till 1994, member of DTAB, Governing Body member of Punjab Health Corporation, Governing Body member NIPER (Mohali).

He was a Fellow of the National Academy of Sciences of India, Punjab Academy of Sciences and Indian Pharmaceutical Association.

#### AWARDS AND HONOURS:

A special award was conferred by the Indian Pharmacological Society to Dr. Kaul for outstanding contribution to the development of Pharmacology in India. His pioneering efforts in establishing NIPER were highly appreciated and recognized across the world.

1998: Ernst and Young Entrepreneur of the Year

2002: Eminent Pharmacist Award by the Indian Pharmaceutical Association.

2011 – Visionary Leader award.

He died on 16<sup>th</sup> February, 2018



## Academic Excellence

### WINTER-2017 EXAMINATION

- SEVENTH SEMESTER** – **Three** students secured more than 8 SPI while **twenty two** students secured more than 7 SPI in Summer-2017 exam.
- FIFTH SEMESTER** – **Four** students secured more than 8 SPI while **fifteen** students secured more than 7 SPI in Summer-2017 exam.
- THIRD SEMESTER** – **Eight** students secured more than 8 SPI while **eleven** students secured more than 7 SPI in Summer-2017 exam.
- FIRST SEMESTER** – **Two** students secured more than 8 SPI while **nine** students secured more than 7 SPI in Summer-2017 exam.

### MERITORIOUS STUDENTS

CLASS	RANK	NAME OF STUDENT	SPI
SEMESTER-VII	1	Bansari Patel	8.55
	2	Nihari Patel	8.45
	3	Vyoma Patel	8.18
SEMESTER-V	1	Singh Chandni	8.82
	2	Hakeem Safiya	8.36
	2	Shaikh Tanzila	8.36
	3	Patel Archi	8.27
SEMESTER-III	1	Singh Sonal	8.73
	2	Patel Devanshi	8.64
	3	Lehnka Pooja	8.55
SEMESTER-I	1	Riddhi Jadiya	8.14
	2	Nishad Vandana	8.03
	3	Milan Modi	7.72

### STATE WISE GTU RANKING OF THE INSTITUTE, GANDHINAGAR (2017-18)

SEMESTER	% OF RESULT OF INSTITUTE	INSTITUTE WISE RANK
7 <sup>th</sup>	52.00 %	32
5 <sup>th</sup>	51.67 %	41
3 <sup>rd</sup>	37.05 %	43
1 <sup>st</sup>	21.28 %	43

## Feathers on the Crown

### CONFERENCES/ SEMINARS/ WORKSHOP ATTENDED BY FACULTY

- ✚ Dr. Dr. M. G. Saralaya was honoured as Guest speaker and delivered a lecture on “Drug Interaction” at the refresher course sponsored by GSPC, Gujarat, held at Shree Dhanvantary College of Pharmacy, Kim on 7th and 8th April, 2018.
- ✚ Dr. Dr. M. G. Saralaya was honoured as Guest speaker at GSPC Sponsored two days seminar on “Refresher Course for Registered Pharmacists” at Bhagwan Mahavir College of Pharmacy, Surat on 15<sup>th</sup> and 16<sup>th</sup> April, 2017.
- ✚ Ms. Zoya Shaikh (Delegate) attended one day Seminar on “one day placement workshop on soft skill developement” at Meril Academy, Vapi on 22<sup>nd</sup> March, 2017.
- ✚ Dr. Ashok Akbari (Guest speaker) attended GSPC Sponsored “Two Days of Refresher Course for Registered Pharmacists” at Shree Naranjibhai Lalbhai Patel College of Pharmacy, Umarakh on 22<sup>nd</sup> and 23<sup>rd</sup> April, 2017.
- ✚ Dr. Ashok Akbari (Guest speaker) attended GSPC Sponsored “Two Days of Refresher Course for Registered Pharmacists” at Bhagwan Mahavir College of Pharmacy, Surat on 16<sup>th</sup> and 17<sup>th</sup> April, 2017.

### CONFERENCES/SEMINARS/WORKSHOP ATTENDED BY STUDENTS & ACHIEVEMENTS

- ✚ Two students of 8<sup>th</sup> semester, fourteen students of 6<sup>th</sup> semester, five students of 4<sup>th</sup> semester and seven students of 2<sup>nd</sup> semester participated in Cricket, Tug of war, Model Presentation, Poster presentation, Treasure hunt, Rangoli and quiz at “Pharma fest 2018” organized by Parul University, Vadodara on 8<sup>th</sup> and 9<sup>th</sup> February, 2018. Students get:
  - First Prize (Model Presentation): Bamaniam Prem  
Thakkar Hiren  
Vrushti Patel
  - Second Prize (Poster Presentation): Singh Chandani  
Lakhara Rinku



Sharma Pooja

✚ Six students of 8<sup>th</sup> semester participated in Ad-mad and Mock placement at “Tek Xianzee 2018- National Level Techfest” organized by S. S. Agrawal College, Navsari on 22<sup>nd</sup> to 23<sup>rd</sup> February, 2018. Students get:

Second Prize (Admad): Sonagara Payal

Tiwari Ankit

Patel Ami

Vasani Jinal

Galani Kajal

✚ Twenty six students of 8<sup>th</sup> semester, sixteen students of 6<sup>th</sup> semester, thirty two students of 4<sup>th</sup> semester and sixteen students of 2<sup>nd</sup> semester participated at “Zonal GTU Tech - Fest 2018” organized by C. K. Pithawalla Institute of Pharmaceutical Science and Research and C. K. Pithawalla Institute of Engineering and Technology, Surat on 26<sup>th</sup> and 27<sup>th</sup> February, 2018. Students get:

First prize (pharmaposter): Bamania Prem

Bheda Hurma

Patel Nihari

Second prize (pharmaposter): Sharma Pooja

Shelar Sneha

Lakhara Rinku

Second prize (pharmarecipe): Shaikh Tanzila

Hakeem Safiya

Shaikh Nazim

Second prize (pharmavimarsh): Patel Bansari

Patel Vyoma

First prize (Recruit-e-Race): Shaikh Zeeshan

First prize (Khajan-e-Khoj): Tiwari Ankit

Patel Ami

Vasani Jinal

Vanecha Swati

- ✚ Bamania Prem student of 8<sup>th</sup> semester participated at “Zonal GTU Tech - Fest 2018” organized by L. M. College of Pharmacy, Ahmedabad on 16<sup>th</sup> March, 2018. Students get:

Third prize (pharma Inoveren): Bamania Prem

## Upcoming Events

- ✚ Annual Conference of 69<sup>th</sup> Indian Pharmaceutical Congress (IPC - 2017) at Chitkara University Rajpura, Punjab on 22<sup>nd</sup> -24<sup>th</sup> December, 2018

## Guest Lectures

- ✚ A guest lecture on “Product Management for Pharma Students and Career Opportunities in Pharma Marketing” by Dr. Vipul Patel and Ms. Jayshree Rewatker was organized on 17<sup>th</sup> January, 2018.
- ✚ A guest lecture on “Pharmacist-Be an Entrepreneur” by Mr, Praful Dhorajiya was organized on 23<sup>rd</sup> January, 2018.
- ✚ A seminar on “Pharma Research- As a Career” by Prof. Dr. Harendra Parekh and Mr. Rohit Mehta was organized on 17<sup>th</sup> February, 2018.





## Events Organized

### Industrial Tour- Some Sweet Memories

An Industrial Tour was organized at Saitech Medicare Pvt. Ltd, on 2<sup>nd</sup> January 2018 for Semester VIII students, to make students aware about various activities related to pharmaceutical companies.

The company is located in the foot hills of Shivalik Range at Kala Amb, a tax haven zone, 100% Excise Free Area and just levy 1% CST against Form C.

The team left for visit and took about 3 hours to cover distance from Chandigarh. In the company team was guided by Ms. Shivani to the orientation of visit. After introduction, students were divided into two groups and were guided by manager of the company.

The tour proved to be an actual experience of company's working and helped to convert the theoretical knowledge of the students to practical inference.





## CAMPUS RECRUITMENT

**Campus recruitment organized on 25<sup>th</sup> January, 2018.** Many renowned pharma companies like Globela pharma Pvt Ltd, Troika pharma, Zota healthcare Ltd, Biogen pharmaceutical co., Advantmed, R.N. lab, Apollo pharmacy visited. All the students of the final year were benefited with it.





SR NO	STUDENT NAME	DEPARTMENT	COMPANY NAME
1	Divya Randeria	Medical coding	Advantmed
2	Nihari Patel	Medical coding	Advantmed
3	Hurma Bheda	Medical coding	Advantmed
4	Bansari Patel	Medical coding	Advantmed
5	Swati Vanecha	Medical coding	Advantmed
6	Payal Sonagara	Medical coding	Advantmed
7	Hiren Thakkar	Medical coding	Advantmed
8	Dhiraj Mishra	Medical coding	Advantmed
9	Quaratulain Shaikh	Medical coding	Advantmed
10	Patel Vyoma Tejas	Medical coding	Advantmed
11	SHIVAM JHA	Pharmacist	Apollo Pharmacy
12	PREM BAMANIYA	Pharmacist	Apollo Pharmacy
13	KUNAL MOTWANI	Pharmacist	Apollo Pharmacy
14	DHAVAL TIWARI	Pharmacist	Apollo Pharmacy
15	YASH MODI	Pharmacist	Apollo Pharmacy

16	SHRADDHA PATEL	Pharmacist	Apollo Pharmacy
17	PRIYANKA VADILE	Pharmacist	Apollo Pharmacy
18	MOHD. SHAIKH SHOAIB	Pharmacist	Apollo Pharmacy
19	RUSHIKABEN PATEL	Pharmacist	Apollo Pharmacy
20	JULI CHAUDHARI	Pharmacist	Apollo Pharmacy
21	NIKETABEN BARIYA	Pharmacist	Apollo Pharmacy
22	JAYKUMAR PATEEL	Pharmacist	Apollo Pharmacy
23	URVASHI SAPARIYA	Pharmacist	Apollo Pharmacy
24	KRISHNA PANCHAL	Pharmacist	Apollo Pharmacy
25	AYUSHI PATEL	Pharmacist	Apollo Pharmacy
26	SHIVANI PAREKH	Pharmacist	Apollo Pharmacy
27	SIMRAN ABHILASHI	Pharmacist	Apollo Pharmacy
28	RUPALI BADGUJJAR	Pharmacist	Apollo Pharmacy
29	KAJAL GALANI	Pharmacist	Apollo Pharmacy
30	SWETA BACHHAV	Pharmacist	Apollo Pharmacy
31	Ankit Ravindra Tiwari	Marketing	Globela Pharma



32	Shaik Quaratulain maqsood ali	QA/QC	R N Laboratories
33	Payal K Sonagara	QA/QC	R N Laboratories
34	Ami B Patel	QA/QC	R N Laboratories
35	Parth Y Dave	Production	R N Laboratories
36	Hiren Thakkar	QA/QC	Zota Pharma
37	PREM BAMANIYA	QA/QC	Zota Pharma
38	Vyoma Patel	QA/QC	Zota Pharma
39	Bansari Patel	QA/QC	Zota Pharma



- Our institute organized industrial training for VII semester students at ZOTA HEALTHCARE LTD., GLOBELA PHARMA LTD. and hand on experience of HPLC & HPTLC at Cubic Analytical Solution, Ankleshwar.

Number of students participated in training:

Yasmin Rangwala

Naman Lohia

Kunal Motwani

Nihari Patel

Hurma Bheda

Kuratullain Shaikh

Prem Bamania

Jeet Shah

## Central placement GTU

Sr No	Name of students	Company	Department
1	Tiwari Ankit	Leva Pharmaceu West Coast Pharma Fine Cure Infinbean	Production PMT Assistant PMT Medical Coding
2	Patel Ami	Infibeam Finecure Ratnamani	Medical Coding M.R QC
3	Sweta Bachhav	Zydus Hospital Apollo Hospital Infibeam	Hospital Pharmacy Pharmacist Medical Coding
4	Kajal Galani	Infinbean Finecure Apollo Hospital Zydus Intern. Hospital	Medical Coding M.R Pharmacist Hospital Pharmacy
5	Pooja Yadav	Zydus Hospital	Hospital Pharmacy
6	Priyanka Vadile	Zydus Hospital	Hospital Pharmacy
7	Pratima Prajapati	Zydus Hospital	Hospital Pharmacy



## GTU Tech Fest 2018

Two day events like Poster presentation, Pharmaprenuer, Pharmavimarsh and pharmarecipe at “GTU tech-fest 2018” organized by C. K. Pithawalla College of Engineering and Technology and C. K. Pithawalla Institute of Pharmaceutical Science And Research, Surat on 26<sup>th</sup> and 27<sup>th</sup> February, 2018.



FALICITATION



CERTIFICATE DISTRIBUTION

PHARMAVIMARSH



POSTER PRESENTATION

PHARMAPRENUER



PHARMARECIPE



## SWACHHATA HI SEVA

“Mahatma Gandhi Smruti Diwas” was celebrated with great zeal and enthusiasm on 30th Jan. 2018 at CKPIPSR campus. As per the event, Tree Plantation and Campus Cleaning activity was performed by the staff members and students.



## LEPROSY ERADICATION AND WORLD CANCER DAY

An awareness camp was organized on 4<sup>th</sup> February 2018 by CKPIPSR whereby a mass of people was being educated in context to the eradication of Leprosy and Cancer.





## GTU-INNOVATION SANKUL DAY

7<sup>th</sup> GTU Innovation Sankul Day was celebrated on 14<sup>th</sup> February 2018. In context to the event, Poster Presentation and Model Presentation were being organized at CKPIPSR campus.



## PRIZE AND CERTIFICATE DISTRIBUTION ON ANNUAL DAY -2018





# Annual Day Celebration

## PHARMAROYAL-2018

Annual Day Celebration organized by our institute on 17<sup>th</sup> March, 2018. Events like Drama, Dance, Singing etc. performed by students.





**જીટીયુ ટેક ફેસ્ટ 2018**  
**મોન 5નું આયોજન કરાયું**



સુરત : નવયુગ વિદ્યાભવન ટ્રસ્ટ સંચાલિત સી.કે.પીઠાવાલા ઈન્સ્ટીટ્યુટ ઓફ ફાર્માસ્યુટીકલ સાયન્સ એન્ડ રીસર્ચ તથા સી.કે.પીઠાવાલા કોલેજ ઓફ એન્જીનીયરીંગ એન્ડ ટેકનોલોજીના સંયુક્ત ઉપક્રમે ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી દ્વારા જીટીયુ ટેક ફેસ્ટ 2018 ઝોન 5નું આયોજન કરાયું હતું.

સી.કે. પીઠાવાલા ઇન્સ્ટીટ્યુટ ઓફ  
ફામાસ્યુટિકલ સાયન્સ એન્ડ રીસર્ચનું ગૌરવ



સુરતઃ જવલુંગ વિદ્યાભવન ટ્રસ્ટ સંચાલિત સી.કે. પીઠાવાળા ઇન્સ્ટીટ્યુટ ઓફ ફાર્માસ્યુટીકલ સાયન્સ એન્ડ રીસર્ચ, સુરતના વિદ્યાર્થીએ તા.૧૫-૧૬ માર્ચ ૨૦૧૮ના રોજ એલ.એમ. કોલેજ ઓફ ફાર્મસી, અમદાવાદ ખાતે આયોજિત જીટીયુ સેન્ટ્રલ ટેક ફેસ્ટ-૧૮માં ભાગ લીધો હતો. જેમાં બામણીયા પ્રેમજીએ ફાર્મા ઇનોવેટેશનમાં તરલ ક્રમાંક મેળવી કોલેજનું ગૌરવ વધાર્યું છે.



## Hobby Corner

### POETRY

### PHARMACIST

AT THIS TIME  
I VOW TO DEVOTE MY PROFESSIONAL  
LIFE  
TO THE SERVICE OF ALL HUMANKIND  
THROUGH THE PROFESSION OF  
PHARMACY.  
I WILL CONSIDER THE WELFARE OF  
HUMANITY  
AND RELIEF OF HUMAN SUFFERING  
MY PRIMARY CONCERNS.  
I WILL APPLY MY KNOWLEDGE,  
EXPERIENCE AND SKILLS TO THE  
BEST OF MY ABILITY  
TO ASSURE OPTIMAL DRUG THERAPY  
OUTCOMES  
FOR THE PATIENTS I SERVE.

I WILL KEEP ABREAST OF  
DEVELOPMENTS  
AND MAINTAIN PROFESSIONAL  
COMPETENCY  
IN MY PROFESSION OF PHARMACY.  
I WILL MAINTAIN THE HIGHEST  
PRINCIPLES  
OF MORAL, ETHICAL AND LEGAL  
CONDUCT.  
I WILL EMBRACE AND ADVOCATE  
CHANGE IN THE  
PROFESSION OF PHARMACY  
THAT IMPROVES PATIENT CARE  
I TAKE THESE VOWS VOLUNTARILY  
WITH FULL REALIZATION OF THE  
RESPONSIBILITY WITH WHICH  
THE PUBLIC ENTRUSTS ME.

**BY Ms. RINKAL PATE**



## Rangoli



By 8<sup>th</sup> semester students



By Baria Niketa  
(8<sup>th</sup> semester)



By Patel Divya  
(6<sup>th</sup> semester)



## Extra-Curricular Activities

Number of extra-curricular activities including Outdoor sports celebration, Teacher's day celebration, Industrial visit, Yoga Days celebration, NSS Activities (Campus Cleaning, Patriotic events, essay compition), various competitions like Mehndi, Drawing, Foody Funda, Rangoli, Best out of waste, Hair style, were organized by institute during academic Year 2017-18.



**INSTANT HEALTHY RECIEPE**



**ADVETISE MAKING COMPETITION**



**BOOKIES**



**RANGOLI COMPETITION**



**DRAMA & SKIT**



**CRAFTING**



**DRAMA & SKIT**



**HIDDEN TALENT COMPETITION**



## OUTDOOR SPORTS

**TUG OF WAR(BOYS)**



**VOLLEY BALL(BOYS)**



**KABADDI(BOYS)**



**CRICKET (BOYS)**



**KHO-KHO(GIRLS)**



**BADMINTON(GIRLS)**



**CRICKET(GIRLS)**





## REVIEW ARTICLE

### Therapeutic uses of snake venom: A comprehensive review

Prof.Dr.Mahesh G Saralaya, Ms. Zoya Shaikh

Department of Pharmacology,

C.K.Pithawalla Institute of Pharmaceutical Science & Research, Surat.

#### ABSTRACT

Poison it's a deadly secretion that is secreted by these creatures Snake, Scorpion, BEE, Spider and Rare Species of some Frogs additionally. Secretion and injectin biting , forcing out regardless of the kind of cathartic of poison global organization them is for self unconscious process given by their Own. Some kind of poisons square measure used for civilization chiefly secreted by snakes, scorpions etc. We square measure discussing concerning snake chiefly. Several of the snakes square measure non-poisonous however a number of them square measure toxic. Two sorts of toxic toxins they will inject with their fangs in U.S. Haemo-toxins and Neurotoxins ,haemo-toxins square measure utterly breakdown and clots the blood, whereas neurotoxins square measure blocks the central nervous system. With the assistance of those mechanism of effective toxicity the medicine that are used for all times saving factory-made type their poison itself.

Key words: Poison, Venom, Anti-Venom.

#### INTRODUCTION:

##### VENOM

Venom is one in every of typical complicated, mixed of as several as totally different peptides, enzymes, and toxins. Largely the venoms of snake species totally different, they show totally different variations in various species of them itself. Due to their nature they were take issue from their totally different organic process pressures, like totally different ancestry, prey, and environments with exploitation that venom.



Figure 1: Venom extraction

#### CONSTITUENTS OF VENOM

Venom is that the secretion that is secreted by venomous creatures, that are synthesized and having in their body, those are venomous[26] glands. Most of the venoms are advanced mixture of variety of proteins, peptides, enzymes, toxins and non-protein inclusions. Several



of them are harmless, however some will turn out extremely toxic in bound levels. Snake venoms cause important mortality and morbidity worldwide, and strike deadly worry in various count of world population.

### TYPE OF SNAKE VENOMS

There square measure primarily 3 kinds of venom in keeping with its effects.

1. Hemotoxic Venoms: It effects Cardio system and Blood .
2. Cytotoxic Venoms: Destroys the cellular sites and muscles primarily
3. Toxin Venoms: Blocks and harm entire system

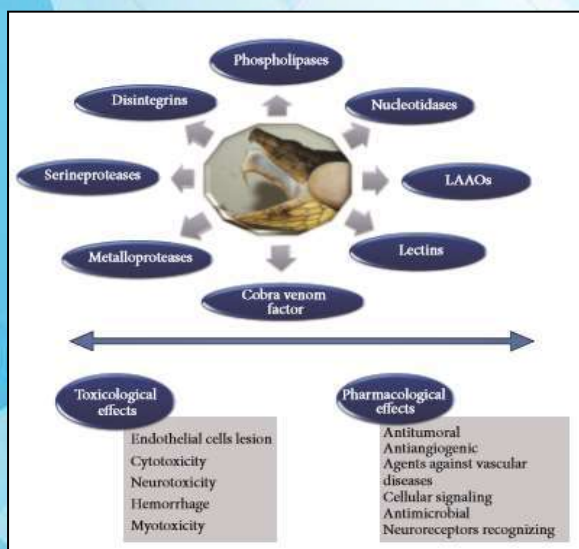


Figure2: The wide spectrum of action and recent applications of snake venom toxins.

### Types of toxins

#### Fasciculins:

These toxins attack cholinergic neurons. Because of this intermittent cramp is caused thereupon Death happens. That kind of Poison is Found for the most part in venom of mambas (*Dendroaspis* spp.) and a number of rattlesnakes (*Crotalus* spp.)

#### Dendrotoxins:

Dendro-toxins inhibit neurotransmissions by interference the exchange of positive and negative ions across the cell membrane. So thereupon mechanism of venomous action winds up in dysfunction. Mamba snake will end up the on high of given result.

#### $\alpha$ -neurotoxins:

This is an oversized cluster of poisons , with over one hundred postsynaptic neurotoxins having been known and sequenced.

Cobra venom- A powerful painkiller that works as well as morphine but without the side effects. Cobra venom is safe and non-addictive way to treat pain , When compared to opiates cobra venom has the potential to slow down the degeneration of joints as in Rheumatoid Arthritis. It also reportedly has antidepressive activity.

At Recepto pharm researchers are also currently doing research on Herpes, HIV/AIDS and Multiple Sclerosis using cobra venom and its constituents. Symptom and dysfunction caused to various individual bitten by hamadryad primarily, ocean snakes conjointly turn out this kind of impact. Phospholipases: Phospholipase is associate degree protein that transforms the lipid molecule into a lysophospholipid (soap) ==> the new molecule attracts and binds fat and ruptures cell membranes. Snake example: Okinawan habu (*Trimeresurus flavoviridis*)

#### Hemotoxins

Hemotoxins target the circulatory system. These contain anticlotting activity. The protein 'Ancrod' which is present in hemotoxins prevent clotting compounds from function

Cardiotoxins :

are parts that are specifically venomous to the guts. They bind to specific sites on the surface of muscle cells and cause change the poison prevents muscular. These toxins might cause the guts to beat on an irregular basis or stop beating, inflicting death.

Snake example: mambas, and a few elapid snake species. THERAPEUTICS USES OF SNAKE VENOM

Heart attacks/ strokes

These medication use proteins that dissolve blood clots and skinny the blood. Two medication are developed and used since 1998 to stop these diseases. The proteins have conjointly been used for those with coronary cardiopathy to breakdown plaque buildup within the arteries. Different snakes are found to carry proteins that concentrate on differing types of cancers.

In Cancer treatment

One macromolecule, referred to as Crotoxin has been found within the South yankee rattler. The macromolecule looks notably drawn to cancer cells and has the flexibility to kill itself. Scientists have an interest in understanding a lot of regarding this macromolecule and the way it is ready to latch on thus tightly to

somatic cell receptors and people found on the surface of the brain.

Contortrostatin is another sort of macromolecule found. It will the work of not attaching and stop those cancer cells from manufacturing signals that prompt new blood vessels to sprout and support the unfold of cancer. With the National Cancer Institute], this macromolecule has been used and developed into a drug that is presently being tested on animals. If productive, the compound are used on girls with carcinoma within the next step. A macromolecule referred to as Eristostatin has been found within the Asian Sand snake that has been found to assist people's immune systems deflect skin cancer by stopping accomplished cells from colonizing the liver and lungs.

Cytotoxic effects of snake venom have potential to degrade/destroy tumor cells. These may treat Breast cancer, Ovarian cancer

According to recent study, snake venom extracted from *Walterinnesia aegyptia* alone or in combination with silica nanoparticles can decrease the proliferation of human breast carcinoma cell line.

The snake venom toxin from *Vipera lebentina turnica* induces apoptotic cell death of ovarian cancer cells

Scaling Brain Disorders

All brain cells have receptors that pass signals to the body to perform bound functions. Totally different diseases cause



these receptors [101-103] to perform in AN abnormal manner.

Proteins in venom utilized in fighting diseases like bronchial asthma [104-107] , Parkinson's un-wellness, Alzheimer's unwellness, and bound pain disorders.

These medicine would work by sterilization the actions of those receptors in order that they are going back to functioning ordinarily.

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#### In Hypertension

Peptides in snake venoms have the potency to prevent a compound called angiotensin – converting enzyme (ACE).

Captopril which is derived from snake venom was the first orally active ACE inhibitory antihypertensive.