CPS NEWSLET...

College of Pharmaceutical Sciences, Puri

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An ISO 9001: 2015 Certified Institute



Approved by AICTE and PCI, Affiliated to BPUT and Recognised by Govt. of Odisha



Late. Prafulla Ch. Mishra Founder, CPS, Puri



Smt. Anima Dash Hon'ble Chair Person, CPS, Puri

(Jan'24 - Mar'24) Issue-1



To be a leader in the fields of Pharmaceutical education, research training and employment by establishing centre of excellence through dynamic and interactive education environment.



To achieve its vision of developing the youth to become highly competent, employable and versatile professional in the contest of leading pharmaceutical industry and practice by quality consideration and intense competent.



Prof.(Dr.) A.K. Mishra (Principal, C.P.S, Puri)

It gives me immense pleasure to share the view in News letter (Jan'24 - Mar'24) issue-1 of CPS, Puri that students, staffs and the learned people associate with College of Pharmaceutical Sciences, Puri will be connected with News Letter. I am happy & thankful to my faculty members for their contribution to publish of the News letter.



Mrs. Anima Dash (Chair Person, C.P.S, Puri)

It gives me great pleasure to learn that College of Pharmaceutical Sciences, Puri publishing News letter (Jan'24 - Mar'24) issue -1. Our institution is a leading Pharmacy Institute in the state of Odisha by providing quality education and performing different activity progressing towards its vision.

Editorial Board



Prof.(Dr.) A.K. Mishra
(Editor in Chief)



Prof.(Dr.) N.K. Mishra
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Ashutosh Dash (Student)



Arya Kumar Swagat Ranjan Nayak (Student)



Ipsita Sahoo (Student)

Curicular Activities

Induction Program First Year B. Pharm: 04.01.2024 - 06.01.2024



Inaugural session: (From L to R) Dr. Amiya Kanta Mishra, During the inaugural session, Dr. Professor and Principal, CPS, Puri, Dr. Santanu Kumar Dr. Amiya Kanta Mishra, lecturer in Community Medicine Padhi, Community medicine, Sri Jagannath Medical Professor & Principal, CPS, at Sri Jagannath College and Hospital, Mrs. Anima Dash, Chairperson, Puri, warmly welcomed the College and Hospital, Puri, CPS, Puri, Dr. Santosh Kumar Mahapatra, Director, CPS, attendees with his address Puri, and Dr. Ganesh Das, Director CPS, Puri





Santanu Medical delivered an inspiring speech to first-year B. Pharmacy students during their induction program



Mrs. Anima Dash, Chairperson Puri, delivered а motivational speech to the 1st year B. Pharmacy students as part of the induction program



Pharmacology at CPS, Puri, delivered a special lecture on "Pharmacy as a



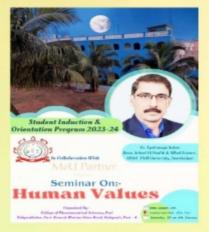
Dr. Nikunja Kishor Mishra, Professor Ms. Nirupama, Prajapita Brahmakumari, Puri and Head of the Department of is addressing students on the topic of "Human Values"



Chinmaya Keshari Associate Professor at CPS, Puri, provided an overview of the syllabus, timetable, and various subjects in pharmacy the first-year B.Pharmacy students during the induction program



Mr. Ranjan Kumar Jena, Assistant Professor at CPS, Puri, conducted a training session for the students on yoga during the induction program





Dr. Jyotirmaya Sahoo, Dean of Arka Jen University, presented a seminar on "Human Values" as part of the induction program

Induction Program for First Year D. Pharm held on Dt.22.02.2024





Inaugural session: (From L to R) Dr. S. K. Nayak, Professor and Vic- Principal, CPS, Puri, , Mrs. Anima Dash, Chairperson, CPS, Puri, Er. Rajesh Kumar Mishra, MD of E-24 Hospital, Puri, Dr. Amiya Kanta Mishra, Professor and Principal, CPS, Puri, Dr. Santosh Kumar Mahapatra, Director, CPS, Puri, and Mr. Ranjan Kumar Jena, Assistant Professor, CPS, Puri



Mrs. Anima Dash, Chairperson CPS, Puri, delivered a motivational speech to the first-year D. Pharmacy students as part of the induction program



During the induction program, Dr. Amiyakanta Mishra, Professor and Principal of CPS, Puri, along with Er. Rajesh Kumar Mishra, MD of E-24 Hospital, Puri, are bestowing honors upon the institution's alumni, Mr. Ardhendu Sekhar Mansingh and Mr. Manash Ranjan Sahoo

Co-Curicular & Extra Curricular Activities

Annual Sports "CPS URJA- 2024" held from 25th -27th January-2024

















Welcome ceremony for B. Pharm freshers-2024



Welcome address delivered by Dr. Amiyakanta Mishra, Professor and Principal of CPS, Puri



Miss fresher and Mr. Fresher of the year 2024



Students celebration for felicitation of Mr. Fresher



Father of Pharmacy in St. Mahadeva Lal Schroff 2002-1971

1902-1971















Celebration of National Pharmacy Education Day

6th March 2024

Theme: "Leveraging Synergism: Industry-Academia Partnership for Implementation of National Education Policy, 2020"

Organised By:

College of Pharmaceutical Sciences, Puri Bidyaniketan, Puri-Konark Marine Drive Road, Baliguali, Puri - 4





The inauguration is being conducted by the dignitaries: Dr. Amiyakanta Mishra, Professor and Principal, CPS, Puri, Mr. Sanket Patro, Manager, Tech Mahindra pvt., Hyderabad, Dr. Santosh Kumar Mahapatra, Director, CPS, Puri, Dr. Ganesh Das, Director CPS, Puri and Dr. Nikunja Kishor Mishra, Professor and Head of the Department of Pharmacology at CPS, Puri





During the inaugural session, Dr. Amiyakanta Mishra, Principal of CPS, Puri, extended a warm welcome to the attendees and elaborated on the significance of celebrating "National Pharmacy Education Day"



Mr. Sanket Patro, Manager, Tech Mahindra pvt., Hyderabad (Chief gust) delivered a seminar on the topic "Digitalization in pharmaceutical industry or Digital application in Drug design in pharmaceutical industry



Dr. Nikunja Kishor Mishra, Professor and Head of the Department of Pharmacology at CPS, Puri, motivates students about the vital role of pharmacists in society and emphasizes their responsibility towards the well-being of the community



Dr. Santosh Kumar Mahapatra, Director of CPS, Puri, delivers an address to the students on the auspicious occasion of "National Pharmacy Education Day"



Dr. Amiyakanta Mishra, Professor and Principal of CPS, Puri, honors Mr. Sanket Patro, Manager at Tech Mahindra Pvt. Ltd., Hyderabad, on the auspicious occasion of "National Pharmacy Education Day"



Dr. Ganesh Das , Director CPS, Puri., delivers an address to the students on the auspicious occasion of "National Pharmacy Education Day"



The release of the Quarterly CPS NEWSLETTER from October-December 2023

CPS, Puri students attended Youth Pharma Festival-2024 organised by Dadhichi College of Pharmacy, Vidya-Vihar, Sundargram, Cuttack









Students and staff at the College of Pharmaceutical Sciences, Puri sang "BANDA UTKALA JANANI," our state anthem on 03/02/2024





Dr. Amiyakanta Mishra, Principal, CPS, Puri & Dr. Santosh Kumar Mahapatra, Director, CPS, Puri attended National Seminar at C.V. Raman Global University, BBSR



Dr. Santosh Ku Mahapatra, chairing a scientific session, presides over a National Seminar held at C. V. Raman Global University, Bhubaneswar, on December 15th and 16th, 2023



Dr. Amiyakanta Mishra, Professor and Principal of CPS, Puri, felicitated by Dr. Sachidananda Mohanty, DMET, Odisha in a National Seminar at C.V. Raman Global University, Bhubaneswar on December 15th and 16th, 2023

29th INDO-US International Conference Conducted by College of Pharmaceutical Sciences, Puri organised with Association of Pharmacy Professionals (APP) on the topic "Latest Trends and Global Opportunities in Nanotechnology and Pharmaceutical aspects"



Inaugural Ceremony: (From L to R) Prof. (Dr.) Alekha Kumar Dash, Asso. Dean (Research), Dept. of pharmacy, Creighton University, USA, Prof. (Dr.) Amiyakanta Mishra, Professor and Principal of CPS, Puri, Shri Ashok Kumar Patra, Hon'ble Drugs Controller, Govt. of Odisha, Dr. Nilamadhaba Dash, Ex-Drugs Controller, Govt. of Odisha,



The unveiling of the Souvenir marks a significant moment during the 29th Indo-US International Conference.



Shri Ashok Kumar Patra, Hon'ble Drugs Controller, Govt. of Odisha



Dr. Nilamadhaba Dash, Ex-Drugs Controller, Govt. of Odisha



Prof. (Dr.) Alekha Kumar Dash, Asso. Dean (Research), Dept. of pharmacy, Creighton University, USA

Plenary Sessions: Scientific talks delivered by Professors and Scientists from various Institutes and Industries in the occasion of 29th indo-us international conference



Dr. Nikunja Kishor Mishra, Professor and HOD, Dept. of Pharmacology at CPS, Puri, is presiding over a Plenary Session featuring Prof. Pradeep R Vavia, Director, ICT-IOC, Bhubaneswar



Dr. A. K. Prusty, Dean, Faculty of pharmacy, C.V. Ramana Global University, Bhubaneswer, is presiding over a Plenary Session featuring Prof. (Dr.) Alekha Kumar Dash, Asso. Dean, Dept. of pharmacy, Creighton



Dr. Chinmaya K Sahoo, Associate Professor in the Department of Pharmaceutics at CPS, Puri, orchestrating the Plenary Session



Professor (Dr.) Alekha Kumar Dash, Associate Dean of Research at the Department of Pharmacy, Creighton University, USA, is imparting knowledge through a scientific presentation



Dr. Ch Niranjan Patro, Vice Principal of RIPS, Berhampur, is presiding over a Plenary Session featuring Prof. Subas Ch Dinda, Dean of the School of Pharmacy at Neotia University, Kolkata



Dr. Sunit K Sahoo, Assistance professor, UDPS, Utkal University, Odisha is presiding over a Plenary Session featuring Dr. Sanjeeb K Sahoo, Scientist-F, ILS, Bhubaneswar



Dr. Sanjeeb K Sahoo, a distinguished Scientist-F at ILS, Bhubaneswar, is presenting an enlightening scientific discourse



Dr. V B Kankimalla, Associate Professor at NISER, Bhubaneswar, is delivering an illuminating scientific presentation



Dr. Sudhir Ku Sahoo, Professor, RCPHS, Berhampur, is presiding over a Plenary Session featuring Dr. Sagar Kumar Mishra Assistance professor, UDPS, Utkal University, Odisha

Honoring distinguished individuals during the 29th Indo-US International Conference



Dr. Susant Kumar Sahu, Reader at UDPS, Utkal University, felicitated by Dr. Santosh Ku Mahapatra, Director of CPS, Puri



Dr. Alekha Kumar Dash, Associate Dean of Research, Creighton University, USA felicitated by Prof. (Dr.) Amiyakanta Mishra, Professor and Principal of CPS, Puri



Dr. Nilamadhaba Dash, Ex-Drugs Controller, Govt. of Odisha felicitated by Prof. (Dr.) Amiyakanta Mishra, Professor and Principal of CPS, Puri



Mr. Himansu Ranjan Paltasingh felicitated by Prof. (Dr.) Amiyakanta Mishra, Professor and Principal of CPS, Puri for Best Ph.D. Research Scholar



Shri Ashok Kumar Patra, Hon'ble Drugs Controller, Govt. of Odisha felicitated by Prof. (Dr.) Amiyakanta Mishra, Professor and Principal of CPS, Puri



Mrs. Anima Dash, Chairperson CPS, Puri felicitated by Shri Ashok Kumar Patra, Hon'ble Drugs Controller, Govt. of Odisha



Prof. Pradeep R Vavia, Director of ICT-IOC, Bhubaneswar, and Dr. Nikunja Kishor Mishra, Professor and Head of the Department of Pharmacology at CPS, Puri, are jointly honored by Prof. (Dr.) Amiyakanta Mishra, Professor and Principal of CPS, Puri, and Dr. Ganesh Dash, Director of CPS, Puri



Dr. Sanjeeb K Sahoo, Scientist-F, ILS, Bhubaneswar, and Dr. Sunit K Sahoo, Assistance professor, UDPS, Utkal University, Odisha, are jointly honoured by Prof. (Dr.) Amiyakanta Mishra, Professor and Principal of CPS, Puri



Dr. Sagar Kumar Mishra Assistance professor, UDPS, Utkal University, Odisha, and Dr. Sudhir Ku Sahoo, Professor, RCPHS, Berhampur are jointly honoured by Dr. Santosh Ku Mahapatra, and Dr. Ganesh Dash, Director of CPS, Puri



Dr. V B Kankimalla, Associate Professor at NISER, Bhubaneswar and Dr. Khirodr Sathua, Asst. Professor, CPS, Puri are jointly honoured by Dr. Santosh Ku Mahapatra, and Dr Amiyakanta Mishra, Professor and Principal of CPS. Puri



Dr. Ganesh Dash, Director of CPS, Puri and Dr. Minaketan Sahoo, Asst. Professor, IPT, Salipur are jointly honoured by Dr. Santosh Ku Mahapatra, and Dr. R Priyadarshini, Professor, CPS, Puri



Mrs. Rojalini Ratha, Pharmacist, Dist. Head quarter. Puri is honoured as "Best Pharmacist award" by Prof. (Dr.) Amiyakanta Mishra, Professor and Principal of CPS, Puri and Dr. Santosh Ku Mahapatra, Director of CPS, Puri



ସିପିଏସ୍ ପଞ୍ଚରୁ ଅନ୍ତର୍ଜୀତୀୟଆଲୋଚନାଚକ୍ର ଉଦ୍ଯାପିତ

ନାନୋ ଟେକ୍ନୋଲୋଜି ହାରା ପ୍ରସ୍ତୁତ ହେଉଛି ଔଷଧ



କଲେଜ ଅଫ ଫାମାସ୍ୟୁଟିକାଲ ସାଇନସେସ୍ ମହାବିଦ୍ୟାଳୟ ଦ୍ୱାରା ଦୁଇ ଦିନିଆ ଆନ୍ତର୍ଜାତୀୟ ଆଲୋଚନା ଚକ୍ ଉଜାପିତ



୨ ୯ତମ ଅନ୍ତର୍ଜାତୀୟ ଆଲୋଚନାଚକ୍ର ଉଦ୍ଘାଟିତ

ପୂରା କୋଷାକି ଦେଶା ଲୁମି ମାର୍ଗ ହିନ କରେଳ ଅଫ ଫାମୀ ବହୁଚିକାର ବାଳକରେବ, ପୂଜା ଏବଂ ଆବୋଦିଏକନ୍ଷୟ, ଫାନୀବା ପ୍ଟେସନାଲସ, ଓଡ଼ିଶା ତାଳା ଖଣା ଦ୍ୱାରା ଏ.ସି.ସି ଆମେରିକାନ ପ୍ରତିକ୍ଷେତିତାରେ ପୁର ଦିବ ଧରି ହେଉକୁ ଥିବା ୨ ୯ବମ ଆବର୍ଜନୀୟ ଆଲୋକମ ଚକୁ ର ପୁଅନ ଚିକ୍ୟ ପୁରା କୁଁତ ପୌର ସବନ ଠାରେ ଅନୁଷାଜର ଅଧ୍ୟ george on tempora die or ପ୍ରତେଶକ ଜ ଉଲ୍ଲେଖ କୁମାର ମହାପାତ୍ର

ଖ୍ର ଜଗନ୍ନଥ ଓ ନିରମ୍ପର ପ୍ରତାସ ପ୍ରତମ ଜଗନ୍ନୟ ପ୍ରଥମ ଦିବର ଅଲୋକମ ବକ୍ ଆରମ କରାଯାଇଥିବା । ଏଥିରେ ଓଡ଼ିଶ ଏକଂ ଓଡ଼ିଶା କାହାରୁ ଜକୁ କ୍ଳିଣିଡ଼ି ଗୋରଦେଇ ଅବୋହନା ବଳ ଓ କିଞ୍ଚନୟ ଉପରେ ଅଲୋକପାତ କରିଥିଲେ । ଉଲ୍ଲ ପ୍ରକ୍ରେପ୍ରକ୍ରେ ବୁଲ ଜିନ୍ତ ଏହି ଅନ୍ତେଶକ କଳିହେ ଦିବ ଅନୁସ ଅବଶ୍ କୁମର ପାତ୍ର, ମୁଖ ବଲା ଭାବେ ଓଡ଼ିଶା ଓ ପୂର୍ବତତ କୃଷ ଜୟୋଗର ତଥା ଆଜ୍ୟିତ୍ୟ ଜୟେଷ ତଃ, ନାଜମଧ୍ୟ ତାବ, ମୂଖ୍ୟ ପୃଷ୍ଟପୋଷକ ଭାବେ ଉଲେକ ଅଫ୍ ଫାର୍ମବସ୍ଥିବାର ଗାରନସେବ, ପୂରା ର ତେଶାର ପରସନ ଗ୍ରମତା ଅତିମା ବାସ, କ ଉପସ୍ଥିତିରେ ମତା ଆକ୍ଷରରେ ସ୍ଥାତୀତ ଅତିମ ଭାବେ ସେଞ୍ଜିଅତ

ପ୍ରଦେଶର ତା: ପ୍ରଫରୁ ମଣି, ଉତ୍ତ ଗୁନିରପଦିନି ଆର୍ମାନୀ ନିରାସର ପ୍ରଧାରକ ହାଁ, ବ୍ରଣାକ କ୍ରମାର ବାହ୍ ଏକଂ କୁଦ୍ର ଆମେଳିକାର କ୍ରେଲଂଟନ୍ SpSoupe curier Squa o ଆସୋଦିଏଟ୍ ଜିନ୍ ପ୍ରସେଶର, ଜ वाह्मात कृताल काय हहारा हकता ଅପୋଟନାର ବିଷୟକଳି ବୟସେ ଅଗୋଟନା ବରିଥିଲେ । ରାଫ୍ୟ zie egjela BOSSIFFS BR ଟେକ୍ବରୋଜି ଆର ଆର୍ମ୍ବସ୍ଥାତିହାର ରାହାର ସହାଦିବ୍ୟାକ୍ୟ ଜ ଆହେଳି, ଖପତେ ତଳ୍ଲା ତ ତଳ୍ୟା δεδουρα ο αρβο απα κονογο ειδε οδετα ι

ରେ ମଣଗିତ ବାଲ୍ଲ ଅଧିକ ମାନଙ୍କ ପାଇଁ ଜଲେଜର ଛାତୃଛାତ୍ରା ବମଦେତ ଜୟରେ ସ୍ୱାସତ ସଂବୀତ ଉଦିନେଶଣ କରିଥ୍ୟାନେତେ ବିଭିନ୍ନ ସିଭାଗରେ କୃତାତ୍ର ଅଟନ କରିଥିବା ଅଧା ଶେଷ ଶିଷାଦିର, **६६व डाट् मेंग्र डाट्ड, ६६व छ**६२**७**६ dee mes, gose coldingers ରକ୍ଷ ଆରୋଜନୀ ଚତ୍ର କ୍ରାଲେଜର ଗୋଧ୍ୟ ଓ: ୧୮୫୫ ଗୁମାର ମୟନ, QUIN NO. TOWER SHOCKES ଅନିତ, କୁମାତ ଖଡ଼ାଙ୍ଗୀ ପ୍ରମୁଖ ପରିଚାଳନୀ କରିଥିଲା ଦେଳେ ହା. ଦିବୁଲ କେଶରା ସଂହ୍

4th-year B. Pharm students from CPS, Puri, embark on an industrial tour to "MedoPharma Pvt. Ltd". on March 22nd, 2024













Blankets distribution on dt. 11th January 2024





The College of Pharmaceutical Sciences, Puri, extends relief by distributing blankets to poor villagers individuals on January 11th, 2024



Rolance Bhutia, the recipient of the Gold Medal as the B.Pharm Topper in 2022 from B.P.U.T., Rourkela was honored during the convocation held on February 13, 2024



On February 13, 2024, Dr. Amresh Prusty ex-faculty was conferred with his PhD degree from B.P.U.T., Raurkela under the supervision of Dr. Amiyakanta Mishra

FACULTY CONTRIBUTION

Presentations/Journal publications/Seminars/Conferences



Dr. A.K. Mishra

Prof. (Dr.)Amiyakanta Mishra, Professor & Principal, CPS, Puri patented one Invention with Prof.(Dr.) Biswaranjan Ray, Professor CPS, Puri Entitled Transdermal Patch Formulation of Nano Structured Lipid Carrieres Loaded With Exemestane. Published on dt. 9/2/2024 also reviewed a manuscript for Journal of Pharmacy and Bioallied Sciences.



Dr. N.K. Mishr

Dr. Nikunja Kishor Mishra, Professor & Head of the Department of Pharmacology at CPS, Puri, actively participated in four webinars on "MinION Nanopore Sequencing for High throughput Virus Detection", "Management of reactions in Leprosy", "Stress Management by Emotional Freedom Technique" and "Preclinical Animal Models Studying Neurological Diseases" on 21th January(Certificate No- SPSR/Webinar-36/2911), 27th January (Certificate No- SPSR/Webinar-37/5995), 11th February (Certificate No- SPSR/Webinar-39/10553) and 24th March (Certificate No- SPSR/Webinar-45/25915) 2024 respectively, organised by Society of Pharmaceutical Sciences and Research (SPSR). He has also participated in another Webinar on "Health, Wealth and Happiness- An Introduction to Health Economics" organised by Department of Economics, School of Arts and Sciences and School of Pharmacy of Takshashila University" on 27th January 2024.



Dr. B.R. Ray

Dr. Biswaranjan Ray, Professor, CPS, Puri participated in 5 Webinars organized by SPSR and received certificate bearing certificate No-SPSR/WEBINAR-36/3022, SPSR/WEBINAR-3910585, SPSR/WEBINAR-42/16380, SPSR/WEBINAR-44/225333, SPSR/WEBINAR-4524616 respectively. Published one book chapter in International Book Recent Development in Chemistry and Biochemistry Research Vol-1 with Co-Author-Prof.Amiyakanta Mishra and Dr.C.K.Sahoo and also Reviewed 4 Research article as Reviewer and Received Certificate bearing Certificate No- BPI/PR/Cert/_2826G/DRB, BPI/PR/Cert/3390G/PRO, SDI/HQ/PR/Cert/11514/PRO, SDI/HQ/PR/Cert/112086/PR. Delivered an Online Presentation as Key Note Speaker for Mitcon Limited in association with DIT University, Derahdun.Topic-Clinical Research In Modern World.



Dr. C.K. Saho

Dr. C.K. Sahoo, Asso. Prof. CPS, Puri et. al. has published 2 articles in 2 different journals, Liposomes for the treatment of prostate cancer therapy: A review. Cancer Treatment and Research Communications 39 (2024) 100792 (Elsvier). Recent applications of liposomes: a review International Journal of Universal Pharmacy and Bio sciences 13(1):1-5; 2024. He has also published 4 book chapters in recent. Sahoo C.K et.al. Phytosomes an Innovative Delivery Systems For Phytochemicals. Recent Advances in Pharmaceutical & Medical Sciences (Edition 3) Prime Publication, 2024; ISBN: 978-71-766976-6-1. Sahoo C.K. et.al. Recent Advances in Nanoemulsion for Drug Delivery. Advanced Concepts in Pharmaceutical Research Vol. 5 Chapter 2; 2024; Print ISBN: 978-81-970008-6-7, eBook ISBN: 978-81-970008-0-5. Sahoo C.K. et al., Emerging Aspects In Targeted Drug Delivery Systems. Futuristic Trends in Pharmacy & Nursing; 2024; e-ISBN: 978-93-6252-647-2 IIP Series, Volume 3, Book 8, Part 3, Chapter 4. Sahoo CK, Emulsion, Micro Emulsion And Nano Emulsion: A Review Futuristic Trends in Pharmacy & Nursing; 2024:e-ISBN: 978-93-6252-111-8 IIP Series, Volume 3, Book 5, Chapter 40. He has participated in the one day work shop 'One Day Online Workshop On Scientific Writing' on 28th March, 2024 conducted by School of Pharmacy, Anurag University, Hyderabad.



Mr. D. Panigrahi

Mr. Debadash Panigrahi, Asso. Professor, CPS, Puri, Dept. of Ph.Chemistry filed a UK designed patent "Glucose Monitoring system" and also review articles for the journals: BMC Chemistry, Journal of Biomolecular Structure & Dynamics, Informatics in Medicine Unlock.



Mr. Jasaswi Ra

Mr. Jasaswi Ray, Asst. Prof., CPS, Puri, Dept. of Ph.Cology et. al. published one research article "Exploration of Anti-Epileptic Property of Methanolic Extraction of Ocimum Basilicum" Journal of Global Pharma Technology 2024, Vol.16, issue 02, 01-07. Mr. J. Ray has participated in 35th Webinars on "Revolutionzing Healthcare for Developed India: Pradhan Mantri Jan Aushadhi Pariyojna and the Viksit Bharat Mission" organised by Society of Pharmaceutical Sciences and Research (SPSR) on 7th January 2024 (Certificate No- SPSR/Webinar-35/21). He has also participated in a webinar on "Health, Wealth & Happiness" organised by Takshashila University, Tamilnadu State Private University on dt. 27th January 2024 & also got Best Talent Award in 29th Indo-US International Conference, organised by CPS, Puri



Mrs. Rajashree Mohanty, Asst. Prof., CPS, Puri, Dept. of Ph.Ceutics published two research article "Role of Nanotechnology in Current Advancement Vaccine Development for Covid-19" & "Exploration of Anti-Epileptic Property of Methanolic Extraction of Ocimum basilicum" Journal of Global Pharma Technology, 2024, Vol-16, issue-01, 01-15 & Vol.16, issue 02, 01-07 respectively.

Ms. R. Mohanty



Mrs C Mahani

Mrs. Swodesna Mohanty, Asst. Prof., CPS, Puri, Dept. of Ph.Analysis has participated in two days 29th Indo-US International Conference on "Latest Trends & Global Opportunities in Nanotechnology & Pharmaceutical Aspects" organised by APP Odisha State Branch and APP American International Branch in collaboration with APP Analytical Chemistry Division at College of Pharmaceutical Sciences, Puri on 9th & 10th March 2024.



Ms. S. Swain

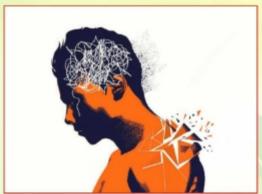
Ms. Suchismita Swain, Asst. Prof., CPS, Puri, Dept. of Ph.Analysis has participated in two days 29th Indo-US International Conference on "Latest Trends & Global Opportunities in Nanotechnology & Pharmaceutical Aspects" organised by APP Odisha State Branch and APP American International Branch in collaboration with APP Analytical Chemistry Division at College of Pharmaceutical Sciences, Puri on 9th & 10th March 2024.

E-Bulletin - Jan to Mar' 2024



1. Study reveals antibiotic use is not the only driver of antibiotic resistance. Source (Pharmatimes online) 12th Jan 2024. Researchers compared 20 years of antibiotic use on E. coli in the UK and Norway. Researchers from the Wellcome Sanger Institute, the University of Oslo, the University of Cambridge and collaborators have, for the first time, discovered that antibiotic use is not the only driver of superbugs. In the UK and Norway, researchers compared the impact of antibiotic use on the treatment-resistant bacteria Escherichia coli (E. coli) over the last two decades. Antibiotic resistance occurs when strains of bacteria evolve and develop resistance to many different types of antibiotics and can cause infections. As the most common cause of bloodstream infections globally, 40% of E. coli bloodstream infections are resistant to a key antibiotic used in UK hospitals to treat serious infections. The study conducted a high-resolution genetic comparison of bacteria to understand what influences the spread of E. coli, using over 700 new blood samples and nearly 5, 000 previously sequenced bacterial examples. Results showed that the increase in treatmentresistant bacteria varied depending on the type of broad-spectrum antibiotic used. Specifically, the rate of resistance to a commonly used antibiotic to treat urinary tract infections caused by E. coli ranged from 8.4% to 92.9%, depending on the country. Furthermore, country-wide antibiotic usage levels also influenced the rate of resistance. In the UK, non-penicillin beta-lactams were used three to five times more on average per person compared to Norway, leading to a higher incidence of

multi-drug resistant infections by a certain E. coli strain. With multi-resistant bacterias, survival depended on which strains of E. coli were in the surrounding environment, making it impossible to determine whether one type of antibiotic would have the same effect on antibiotic-resistant bacteria spread in different countries. "Continuing to use genomics to gain a detailed understanding of the underlying drivers of bacterial success is crucial if we are to control the spread of superbugs," explained professor Jukka Corander, senior author, Wellcome Sanger Institute and University of Oslo.



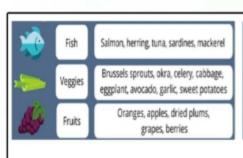
2. Researchers identify new treatment target for genetic epilepsy. Source (Pharmatimes online) 9th Feb 2024. The rare neurodevelopmental condition CDKL5 is characterised by early-onset epilepsy. Researchers from the Francis Crick Institute have identified a new treatment target for cyclin-dependent kinase-like 5 (CDKL5) deficiency disorder (CDD), a common form of genetic epilepsy. CDD is a rare neurodevelopmental condition that is characterised by early-onset epilepsy, low muscle tone and developmental challenges in children. The condition involves losing the function of a gene that produces the CDKL5 enzyme, which phosphorylates proteins, by adding an extra phosphate molecule to alter their function. Funded by the LouLou Foundation, scientists studied mice that do not produce the CDKL5 enzyme to replicate the symptoms of people with CDD. After identifying that CDKL5 is active in the nerve cells of mice, researchers measured the level of phosphorylation of a molecule known to be targeted by CDKL5 called EB2. They found that some EB2 phosphorylation remained in the mice, suggesting that another similar enzyme was phosphorylating it, Researchers then found an enzyme similar to CDKL5, called CDKL2, which is present in human neurons and targets EB2. Using the mouse model, researchers revealed that in mice without either of the enzymes, EB2 phosphorylation almost fully disappeared. The team concluded that around 15% of EB2 phosphorylation comes from CDKL2 and less than 5% comes from another enzyme yet to be identified. Increasing levels of CDKL2 in CDKL5-deficient people

could potentially treat some of the effects on the brain in early development. The team is now investigating whether mice without CDKL5 can be treated by stimulating the brain cells to produce more CDKL2. In addition, the lab is working with biotechnology companies to identify molecules that increase CDKL2 and lead to potential new treatments for CDD. Margaux Silvestre, postdoctoral researcher, Max Planck Institute for Brain Research, said: "Our discoveries offer fresh insights into the expression and regulation of CDKL5 in the brain." "If we can increase levels of CDKL2, we might one day be able to stop symptoms from developing or getting



3. Rare kidney diseases are a group of conditions which account for over 5% of people living with chronic kidney disease. Source (The Pharma Times News Bureau) 20th Mar 2024. A new study led by University College London (UCL) and the UK Kidney Association has suggested that treatments for rare diseases could significantly reduce the burden of kidney disease for patients and the NHS. Published in The Lancet in alignment with World Kidney Day (14 March 2024), the study draws on the largest kidney disease dataset ever created, the UK's National Registry of Rare Kidney Disease (RaDaR). Affecting over seven million adults, according to Kidney Research UK, chronic kidney disease (CKD) is characterised by the gradual loss of kidney function over a period of months to years. Rare kidney diseases such as cystinosis and Fabry disease are a group of conditions that affect less than one in 2,000 people, accounting for over 5% of people with CKD. Researchers charted the progression and outcomes of 28 rare kidney diseases and compared data from 27,285 patients from RaDaR, run by the UK Kidney Association. After comparing RaDaR patient data with data from over 2.8 million CKD patients in the general population, after five years, researchers found that rare kidney disease patients were 28 times more likely to experience kidney failure in contrast. to CKD patients, while their overall risk of death was less than 50%. The overall demand for expensive and hazardous dialysis and kidney transplantation treatments could be replaced when treating rare diseases and could reframe perceptions of CKD, rare diseases and kidney failure.

Additionally, new treatments could bring significant cost and resource savings to the NHS. Every year, kidney failures account for around 3% of the national health service's budget, with dialysis costing over £30,000 per person. Professor Danny Gale, senior author, UCL division of medicines and director of RaDaR, commented: "Our results show that...therapies... are likely to have a disproportionately beneficial impact on the overall demand for life-sustaining dialysis and kidney transplantation" and could "substantially reduce the burden, both for patients and the NHS, of kidney failure".







Dr. N. K. Mishra, CPS, Puri



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