



sbstimes

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MONTHLY NEWSLETTER

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Editorial

A new year gives us an opportunity to reflect on the year ahead, the achievements and hard work of the past year and also brings with it the expectations of a brighter future. During 2014 SBSTIMES received a large number of articles, faculty achievements, student achievements, activities, alumni participation, giving us the opportunity to reflect the true essence of SBS in the best possible way. We hope these features will grow in the years to come and soon the SBSTIMES may see an expansion. We have been engaged throughout the year in negotiations with the Conveners of the societies, faculty and alumni members which has provided us with an unprecedented global audience for our publications.

In the current year, we have decided to engage more and more students through their creativity and literary talent. We look forward to 2015 with more active participation of the students and great hopes for the improvisation of SBSTIMES to yet another level.

The current issue marks the grand opening of 2015 with the words of wisdom from our worthy Director, highlights of the faculty members and student achievements. The SBSites marked their presence at national conferences and state level debate competition while the SBS campus cherished the winter bloom by the Chrysanthemum show "Hemant Sringar".

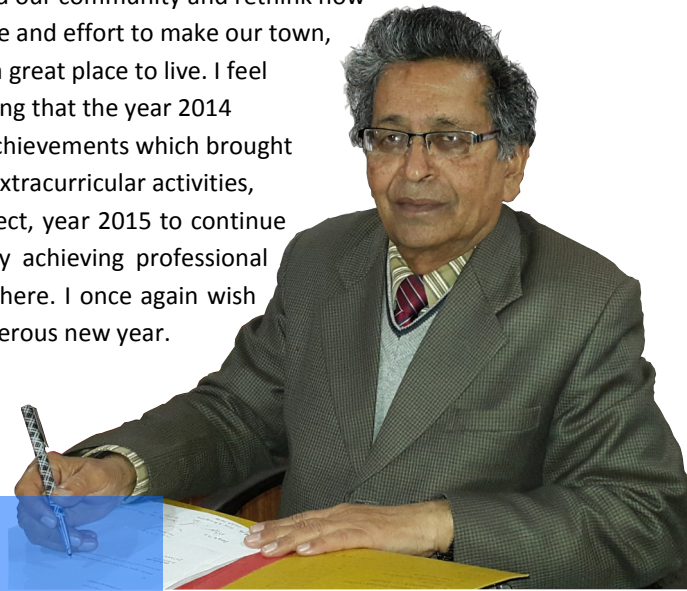
We take this opportunity to extend our heartiest thanks to all who hade made the past year a splendid success for SBSTIMES, our editorial board members, faculty members, alumni, students and wish all our readers a very happy and successful new year.

I look forward to hearing from you. Any suggestion for improvement in the Newsletter can be forwarded to sbspc2009@gmail.com. For now, happy reading!

From the Director's Desk

On behalf of the Management, I extend my greetings to one and all for the New Year 2015. It is the time to bid farewell to 2014 and welcome the NEW YEAR. It is the time to introspect within and find if we have been able to achieve our targets fixed for 2014. It is the time to fix our aims and objectives for the coming year. It is the time to get our options and priorities clear and to make a significant decision to do what will make us really happy. Take each day as a new opportunity to keep moving forward for what you want. The real issue here is what you will do each day, you awake to change, to move forward, to put into action, knowing that each day wasted can never be found again. The demand of the present moment is that do not look at the situation around but pay attention instead to make your inner stage very strong.

Be better with our planet i.e. how you recycle, minimize your footprint and how you appreciate the natural beauty around? Let us take a pledge to be better to ourselves and our community and rethink how we can give of our time and effort to make our town, city or neighborhood a great place to live. I feel immensely proud stating that the year 2014 witnessed student's achievements which brought laurels in academics, extracurricular activities, sports and NCC. I expect, year 2015 to continue this legacy forward by achieving professional excellence in every sphere. I once again wish everyone a very prosperous new year.



Prof F.C. Garg
Director (O), SBSPGI

Mr. Maninder Mohan was awarded Ph.D. degree under the supervision of Prof. Sanjay Gupta, Head, Department of Biotechnology and Biochemistry, on the topic "Antimicrobial activity of essential oils of selected wild plants grown in Uttarakhand: Potential application in food borne pathogens" in December 2014, by Uttarakhand Technical University.

Mrs. C. Nitaya Shanthy, Assistant Professor, Department of Pharmaceutical Sciences, was awarded Ph.D. in Pharmaceutical Sciences in December-2014 by Jaipur National University. The topic of the research was "Design & characterization of captopril loaded microspheres for gastroretentive drug delivery" under the supervision of Prof. Rakesh Gupta, Principal, LBS College of Pharmacy, Jaipur.

Prof. Versha Parcha, Head, Department of Applied Chemistry, was appointed as a Resource Person and Chairperson for the technical session at Symposium on Photochemistry and Ayurveda Potential and Prospectus 2014, organised by the Management of Universities Journal of Photochemistry and Ayurvedic Heights on 24 Dec 2014.

Dr. Rina Rani Singh, Assistant Professor, Department of Biotechnology and Biochemistry, gave training on the topic "Wildlife crime and forensics" to Forest Field Officers of Uttarakhand and Uttar Pradesh Forest Department at Corbett Wildlife Training Center at Kalagarh.

Dr. Manjeet Kaur, Assistant Professor, Department of Applied Chemistry, received the award for Best Poster for the paper entitled "Phytochemical and analgesic potential of *Celustrus paniculatus*" at Symposium on Photochemistry and Ayurveda Potential and Prospectus 2014, organised by the Management of Universities Journal of Photochemistry and Ayurvedic Heights on 24 Dec 2014.

Dr Alok Maithaini, Assistant Professor, Department of Applied Chemistry, received the award for Best Oral Presentation for the paper entitled "Aroma profile and comparison of chemical composition of *Thymus serpyllum* from lower hill of the Garhwal Himalaya" at Symposium on Photochemistry and Ayurveda Potential and Prospectus 2014, organised by the Management of Universities Journal of Photochemistry and Ayurvedic Heights on 24 Dec 2014.

dialogcolumn

Microbiologists sequenced the entire genome of *Klebsiella pneumoniae* strain, encoding New Delhi Metallo-beta-lactamase (NDM-1).



Few years back Indian parliament was rocked with the news that highly drug resistant gene containing bacterial pathogen killed foreign patient who acquired this bacteria from New Delhi hospitals. NDM-1 was first reported in 2009 in a Swedish patient of Indian origin, who travelled to New Delhi and acquired a urinary tract infection due to a carbapenem-resistant *K. pneumoniae* strain resistant to all antibiotics tested except colistin. Faecal samples collected from this patient during his stay at the nursing home yielded an NDM-1 positive *E. coli* as well. The NDM-1 encoding gene is located on different large plasmids (a 180-kb plasmid for *K. pneumoniae* and a 140-kb plasmid for *E. coli*) that are easily transferable to susceptible *E. coli* J53 at a high frequency. These plasmids also harbor genes conferring resistance to almost all antibiotics, thus making their rapid dissemination in clinically relevant bacteria a

serious threat for therapy. Following this first case, sporadic cases of infection due to NDM-1 positive bacteria have been detected, including an *E. coli* from blood cultures of a patient of Indian origin in the United Kingdom, three cases of *Enterobacteriaceae* isolates (one *E. coli*, one *K. pneumoniae* and one *E. cloacae*) in the United States from patients who received care in India, and three cases of *Acinetobacter baumannii* from New Delhi. In the August 2010 issue of the journal *The Lancet: Infectious Diseases*, a multinational team reported the emergence and spread of 180 cases of patients infected by bacteria carrying the NDM-1, including 37 cases in the United Kingdom and 143 cases in various sites in Pakistan and India, thus suggesting a widespread dissemination.

In conclusion, the NDM-1 gene spreading in *Enterobacteriaceae* is an alarming risk because these novel multidrug-resistant bacteria (increasingly familiar even to the lay public as 'superbugs') could disseminate worldwide very quickly and originate a wide and uncontrollable spread of pandemic clones for which new and effective antibiotics are currently not available. Now some hopes can be relied on the new research of genome sequencing to search for target drugs in future course of time.

Corey M. Hudson *et al.* *PLoS ONE*, 2014; 9 (6): e99209
DOI: [10.1371/journal.pone.0099209](https://doi.org/10.1371/journal.pone.0099209)

Prof. G.R.S. Bisht

Department of Microbiology

The shiny morning of 12th December 2014 brought all the shades of happiness with the commencement of follower show “HEMANT SHRINGAR” inaugurated by Sardarni Harenderpal Kaur in the premises of SBSPGI. The event was organized by the Nature Club, SBSPGI and has been one of the most awaited events of the Institute. The whole campus garden was bedecked with more than 80 varieties of Chrysanthemum. The Chrysanthemum is one of the most popular flowers for beds and pots, as well as for flower arrangement. The bloom lasts over a period of almost 1-2 months. It is easy to grow and is not fussy about soil, light or moisture. It has a wide range of colours, shapes and sizes. The Chrysanthemum has the advantage of multiplication from cuttings taken from chosen plants.



Exploration of joy.....



Educational tour of B.Sc. Biotechnology students to Jaipur

SBSPGI at III INCPT, AIIMS, New Delhi

III International Conference of Physical Therapy (INCPT-2014) was organized by Physiotherapy Unit, JPN Apex Trauma Center, AIIMS, New Delhi at Jawaharlal Nehru Auditorium from 17th– 21st Dec 2014. Eight students from Department of Physiotherapy, SBSPGI, participated in the conference.

Pooja Yadav, Anisha Adarsh, Deepti Dhyani, Neha Bharti participated in ortho scientific paper presentation group while Ruchita Agarwal, Prashant Kumar, Surbhi Bhatnagar and Ravina Taragi participated in miscellaneous scientific paper presentation group.

Adding feather in the cap, Pooja Yadav bagged II prize in ortho scientific paper presentations while Ruchita Agarwal bagged III prize in the miscellaneous category.



SBSites shines at Rajbhawan

SBSites marked their presence at the regional level Debate Competition organised by The Pioneer Group at Rajbhawan, Dehradun, on 8th December 2014. The competition was organized on the theme “Health First” with the topic of debate “Should the Uttarakhand government completely ban the sale and distribution of polythene as done by the neighbouring states like Himanchal Pradesh”. Putting views in favour and against the notion, the speakers from SBSPGI bagged laurels for the Institute. Ms. Rimple Dhawan bagged the overall I prize and the Award for the Best Speaker while Mr. Rahul Dubey and Mr. Kartik won the III prize in Hindi and English categories respectively.





2015

**Industry-Academia Interaction (Phase-IV)
Intellect & Skill Demands of Industries
and Professional Possibilities
(January 27, 2015)**

BIOCON

**Regional Training Workshop on Water
Quality Monitoring and Management
(February 02-03, 2015)**

CHEMCON-2015

**National Seminar cum Workshop on Ad-
vances, Perspectives & Challenges in
Chemical Sciences
(February 11-12, 2015)**

PHARMAZENITH

**Essentia of Today & Tomorrow: Inculcat-
ing Advanced Pharmaceutical Skills with
Innovative Ideas
(March 26-27, 2015)**

For more details log on to www.sbspqi.edu.in

**Sardar Gurcharan Singh Memorial
8th National Debate Competition
FEBRUARY 6TH-7TH, 2015**

Topic

**"THE EDUCATION SYSTEM OF OUR
COUNTRY IS EFFICIENT ENOUGH TO
MAKE IT A DEVELOPED NATION "**

Every person has a turning point in the life which generates a potential for his journey. Before joining SBS, I was having little vision for my life, there was no reaction between the chemistry of my life and the chemistry in the books, and for me chemistry was only a funny way of developing colors by hook or crook. After joining SBS, a remarkable change came in my life, not suddenly but with the passage of the shelter of SBS the interest towards the life started developing. Now every moment of the college was becoming interesting. Reagents and indicators became part of life, a transition of unstable mind to a curious chemistry mind. The quality of education, disciplined and prestigious history, equipped research based analytical laboratory, availability of required resources, guidance of experienced and talented teaching faculty prepared us for the challenges of global professional industry. Each basic thing learned from SBS makes my confidence sky high. SBS is a platform from where we start our journey towards the path of progress and attain the zenith in professional excellence. The skills which I learned from SBS are a lifelong deposit giving interest at regular intervals. The practical skills that I developed in SBS chemistry lab, could never be learned from industry but applied in the industry time to time to prove my competency. The level of competition is getting higher day by day but SBS prepared us for any such competition. The student who studied at SBS will survive under any circumstance of deliverance in professional world. This quality of research carried out in the department of pharmaceutical chemistry is a reflection of Research & Development in Industry. I don't know that whether I will be successful in my life or not but I know I am satisfied. So, I would like to thank SBS specially Department of Pharmaceutical Chemistry that whatever I have achieved is your nourishment to my life. I wish that upcoming student will keep the glory of SBS high. The Institute will continue to serve the nation by producing qualified professionals in various fields of sciences. I am sure that wherever I will go, I will find SBS student glorifying the name of SBS.



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M.Sc.-Pharmaceutical Chemistry
Class of 2008
Group Leader (Analytical)
Johnson & Johnson Ltd.



[www.facebook.com/SBS Old Students Association](http://www.facebook.com/SBS%20Old%20Students%20Association)



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