



sbstimes

VOL XI, ISSUE 7 JULY 2014

MONTHLY NEWSLETTER

MRP ₹ 1.00/-

- 2** Faculty Publications
Importance of Greetings
- 2** Dialog Cloumn
- 3** Workshops
Placements
- 3** Alumni Corner
- 4** They Said It

Editorial

Its time for SBSPGI to bid farewell to all its final year students who will be transitioning into their next walk of life. Many companies conducted campus interviews and selected students who are today progressive in all walks of life.

Academic success of the Institute relies on many things: the recruitment and selection of the very best talent from all over the Nation, the process which is in full going these days by the most active Admission Board. The nurturing of that talent, the excellent teaching faculty; the strong placement support. SBSPGI has always prided itself over these points, though we are never complacent and constantly working for better and best. Of course, academic achievements were on priority, the students were involved in all other imaginable activities throughout the last academic session viz sports, cultural, skilled writing, NCC, photography etc. The Publication Committee highlighted all the major achievements of the students, staff and alumni. This was all possible with the immense support of the Management and the zeal of editorial board members. I extend my gratitude to all who directly or indirectly supported the Publication Committee and hope to get the support throughout the upcoming academic session.

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

Admissions.....

The completion of University examinations brings an end to the current academic session and marks the advent of the new ones.

While the old students take respite after their hectic study schedules and go for vacations, fresh faces can be seen in the campus..... fresh, yet anxious, as they are the faces of admission seekers, who after finishing their school are now ready for entering higher professional education. Every aspirant struggles to choose the best professional course for him or herself but with various options, one definitely needs the correct advice and guidance.

The Admission Cell of the Institute is a self regulatory body that works to guide and orient the aspirants seeking admission. It is constituted by faculty members of various disciplines who explain the scope and significance of various courses offered by the Institute, so that the student can choose the best course according to his interest and abilities.

Various counselling and interview sessions are held to further simplify the process.

Our aim is to recognize and nurture the abilities of each student and produce the best biomedical human resources to serve the Nation.

Faculty publications

Alok Kumar Gupta, Vikram Singh Gaur, Rajesh Kumar Pathak, **Sanjay Gupta** and Anil Kumar. (2014). *Dof1* transcription factor interacts with only specific regions of the promoters driving the expression of genes involved in carbon and nitrogen metabolism. *International Journal of Computational Bioinformatics and In Silico Modeling*. 3 (4): 412-422.

Richa Seth, Manindra Mohan, Rajendra Dobhal, Vinod K. Gupta, Prashant Singh, Rakesh Singh and **Sanjay Gupta**. (2014). Application of chemometric techniques in the assessment of groundwater quality of Udham Singh Nagar, Uttarakhand, India. *Water Quality Exposure and Health*, DOI 10.1007/s12403-014-0127-5, **Springer**.

Rajender Singh Rana, Vikash Kandari, Prashant Singh & **Sanjay Gupta**. (2014). Assessment of Heavy Metals in Pharmaceutical Industrial Wastewater of Pharmacy, Selaqui, Dehradun, Uttarakhand, India. *Analytical Chemistry Letters* 4 (1) 29-39, **Taylor and Francis**.

Richa Seth, Manindra Mohan, Prashant Singh, Rakesh Singh, Rajendra Dobhal, Krishna Pal Singh & **Sanjay Gupta**. (2014). Water quality evaluation of Himalayan Rivers of Kumaun region, Uttarakhand, India. *Applied Water Science*, DOI 10.1007/s13201-014-0213-7, **Springer**.

Bharat Bhushan and **Luv Kush** (2014). Pharmacophoric studies of anti telomerase drugs. *International Journal of Innovative Research & Development*. 3(6) 268-272.

Reena Kumari, Jyoti Nagpal and **Siddhartha Sen** (2014). Influence of masticatory performance on cognition: Attention and executive function in young adults. *Journal of Physiotherapy*. Vol 2; 1-6.

IMPORTANCE OF GREETINGS

John worked at meat distribution factory. One day, when he finished with his work schedule, he went into the meat cold room (Freezer) to inspect something but in a moment of bad luck, the door closed and he was locked inside with no help in sight. Although he screamed and knocked with all his might, his cries went unheard as no one could hear him. Most of the workers had already gone and outside the cold room (freezer) it's impossible to hear what was going on inside. Five hours later, whilst John was on the verge of death, the security guard eventually opened the door and saved him. John then asked the security guard what he came to do there as it wasn't part of his work touting.

He replied: "I've been working in this factory for 35 years. Hundreds of workers come in and out every day but you're one of the few who greets me in the morning and says goodbye to me every night when leaving after working hours. Many treat me as if I am invisible. So today like every other day, you greeted me in your simple manner "Hello" at the entrance when resuming for work, But curiously after working hours today, I observed I've not heard your "Good bye see you tomorrow" . Hence I decided to check around the factory.

I look forward to your greetings every day because to you, I am someone. By not hearing your farewell, I knew something had happened. Then I searched and found you!

Moral Lesson:

Be humble, love and respect those around you because life is too short. Try to have an impact on people in ways we can't even imagine especially the people that cross our path daily. Stay blessed!

Brig. (Retd) P.P.S. Pahwa
Additional Director

dialogcolumn

DNA Barcoding for Species Identification



DNA barcoding first came to the attention of the scientific community in 2003 when Paul Hebert's research group at the University of Guelph published a paper titled "Biological identifications through DNA barcodes". A new technique of species identification and discovery using a short segment of DNA from a characterized region of the genome. That DNA sequence can be used to identify different species, in the same way a supermarket scanner uses the familiar black stripes of the UPC barcode to identify your purchases.

The gene region that is being used for almost all animal groups, a 648 base-pair region in the mitochondrial cytochrome c oxidase 1 gene ("CO1"), that provides an highly effective tool in identifying birds, butterflies, fish, flies and many other animal groups. The advantage of using COI is that it is short enough to be sequenced quickly and cheaply yet long enough to identify variations among species. The

COI barcode is not effective for identifying plants because it evolves too slowly, but two gene regions in the chloroplast, *matK* and *rbCL*, have been approved as the barcode regions for land plants.

In the laboratory, technicians use a tiny piece of tissue from the specimen to extract its DNA. The barcode region is isolated, replicated using a process called PCR amplification and then sequenced. The sequence is represented by a series of letters CATG representing the nucleic acids – cytosine, adenine, thymine and guanine.

So, if you wrote down the barcode sequence

CCTATACCTAATCTTCGGAGCATGAGCGGGCATGGTAGGC.... Then it's image looks like this:



Once the barcode sequence has been obtained, it is placed in the Barcode of Life Data Systems (BOLD) database – a reference library of DNA barcodes that can be used to assign identities to unknown specimens.

BOLD is a searchable repository for barcode records, storing specimen data and images as well as sequences and trace files. It provides an identification engine based on the current barcode library and monitors the number of barcode sequence records and species coverage.

Dr Vikash Singh Jadon
Deptt of Biotechnology & Biochemistry

Masters Students of Department of Biotechnology and Biochemistry attended the Two day workshop on Application of Remote Sensing and GIS in Water Resource Management at Doon University, Dehradun on 04-05 June, 2014. The workshop was organized by Uttarakhand Space Application Centre (USAC) & Uttarakhand Science Education and Research Centre (USERC) in association with Uttarakhand State Council for Science and Technology (UCOST), Dehradun.

Masters Students of Department of Biotechnology and Biochemistry were invited to attend the Two workshops on "Scientific Paper Writing" & "Technological Empowerment of Women" jointly organized by the National Academy of Sciences (NASI), India and Uttarakhand State Council for Science and Technology (UCOST) on 17-18 June 2014 at Graphic Era University, Dehradun.

placements

JOINT POOL CAMPUS BY AHLCON PARENTERALS (I) LTD., BHIWADI

Continuing the placement drive, a joint pool campus was organized by Training & Placement cell, SBSPGI on 14th June 2014 for Ahlcon Parenterals (I) Ltd., Bhiwadi. More than 40 students of B. Pharm. from different colleges viz., S.B.S.P.G.I., H.I.P.R., G.R.D. Academy, D.B.I.T., G.I.S.I.P.S., D.B.I.P.R., Dehradun appeared for various position in department of Production, QA and QC. The panel for the interview consisted of: Mr. Bhanu Pratap Singh, HR Manager, Ahlcon Parenterals (I) Ltd., Bhiwadi; Mr. Subhash Chandra Pandey, HOD QA, Ahlcon Parenterals (I) Ltd., Bhiwadi.

The recruitment process started with the brief induction by Mr. Bhanu Pratap Singh followed by written test and Personal Interview rounds. The students interacted curiously with team members of Ahlcon Parenterals (I) Ltd. They participated in the placement drive with the great zeal and enthusiasm.

After the interview round, 19 students were selected.



JOINT POOL CAMPUS BY MACLEOD PHARMACEUTICALS, BADDI

A joint pool campus was organized by Training & Placement cell, SBSPGI on 14th June 2014 for Macleod Pharmaceuticals, Baddi. More than 50 students of M.Sc. Pharmaceutical Chemistry and M.Sc. Chemistry from different Universities/Institutes viz., S.B.S.P.G.I., D.P.M.C., Dolphin Institute, Sai Paramedical Institute, S.G.R.R.I.T.S., G.R.D. Academy, Dehradun have appeared for the post of QC Chemist in Pharmaceutical Chemistry. The panel for the interview consisted of: Mr. Baldev, HR Manager Macleod Pharmaceuticals, Baddi; Mr. Kamalendra Rai, Sr. Manager, Macleod Pharmaceuticals, Baddi. After the interview round, 10 students were selected.

mailbox

It gives me immense pleasure and honor to write to you on this day since I have joined NIPER -Ahmedabad as faculty. The excellent faculty of the SBS internationalizes the career perspectives of the students and make them global ambassadors of higher education. I am highly thankful for the excellent world class infrastructure provided to students and would like to credit my appointment to SBS. Words are not enough to express my gratitude to Dr Versha, Urmi Madam, Dr. Luv Kush, Dr. Veerma Ram, Dr Mamta and many others. Under their mentorship SBS has received national and international acclaims and I will continue to act as its true ambassador. I am grateful again for all the possible facilities provided to us and innumerable fond memories of my golden days.



Amit Sharad

**M.Sc. Pharmaceutical Chemistry
Class of 2007
Faculty, NIPER, Ahmedabad**

www.facebook.com/SBS Old Students Association Like us on Facebook

Among the alumni of our Institute, is a whole range of inspiring careers, education role models, work experience providers, mentors, e-mentors and effective support that they can provide.

We, at SBSPGI, duly acknowledge the support of Mr Kamalendra Rai, M.Sc. Pharmaceutical Chemistry, Class of 2000, Sr. Manager, Macleod Pharmaceuticals, Baddi, for conducting campus interviews at SBSPGI. We welcome his valuable suggestions for incorporating the industry oriented laboratory experiments in the curriculum of M.Sc. Pharmaceutical Chemistry for better compatibility of the students with the need of the industry.





I can never forget these memories...the friends that were always besides me to hold me during my worst time and were always present in every essence of my happiness. I can never forget my respected teachers, who taught us with all their efforts and enriched our minds with knowledge to compete with this world. I am thankful to SBSPGI for providing us far better laboratories with all the necessary facilities and equipments. I am very thankful to SBSPGI for giving me such a nice placement which is surely going to enlighten my future.

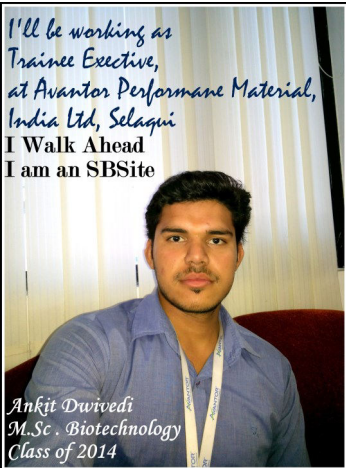
Yagyadeep Sharma, M.Sc. Microbiology, Class of 2014

Here's to the bright New beginning, and a fond farewell to the old; here's to the things that are yet to come, and to the memories that we hold.....
Class of 2014



SBS is one of the best part of my life. My experience during five years of stay in SBS has been a new learning experience everyday. The faculty of SBS is very helpful and has guided me to excel in life and helping in getting my first respective job.

Swati Negi, M.Sc. Biotechnology, Class of 2014



My experience at SBS has been very inspiring. I learned a lot from here. The education system here at SBS has no match. All the Faculty members are very helpful. I would like to thank the training and placement cell for providing me a respectful job.

Deepti Nautiyal, M.Sc. Biotechnology, Class of 2014



It was then when I took admission and it is now, when I am passing out. The Institute has given me a lot in these two years apart from a degree, friends and good memories, which have made me the person I am today. Each time I faced a difficulty in one or the other module, a teacher stood by me like a tree and under their shadow I have learned quite a lot that I now believe yeah!!!!

I can do it. I believe in myself more than ever. I would like to take this opportunity and thank the training and placement cell because of whom I have got placed and now that I have been placed at **Brindaban Beverages Pvt. Limited Bareilly.** I am really short of words to express my gratitude and thankfulness towards each and every member of **SBS family** without whom I couldn't have reached where I have reached today.



Rahul Verma

M.Sc. Microbiology, Class of 2014

Patron: Shri S.P. Singh, Chairman, Gaurav Bharti Shiksha Sansthan
Publisher: Dr. Gaurav Deep Singh, Managing Secretary, Gaurav Bharti Shiksha Sansthan
Advisors: Brig. (Retd) P.P.S. Pahwa (Additional Director), Capt. J.S. Gill (Retd), (Advisor Administration), Dr. Luv Kush (Academics Advisor).
Editorial Board: Dr. Vikash Singh Jadon, Dr. Rina Rani Singh, Dr. Vishal Rajput, Dr. Umar Arfath, Dr. Chitra Kapoor, Dr. Richa Gaur.
Student Editors: Sonali Gaur (Secretary), Deepika Khanna, Sheetanshu Sapru, Pooja Tiwari, Mansi Gaur, Kajal Kalra.



SARDAR BHAGWAN SINGH POST GRADUATE INSTITUTE OF BIOMEDICAL SCIENCES & RESEARCH, BALAWALA, DEHRADUN-248161, UTTARAKHAND TEL: 0135-2686246, e-mail:sbspigi@gmail.com, website:www.sbspigi.edu.in