**KAUSTUV SAHOO**

733 NE 14th STREET, Oklahoma City, OK-73104; 405-361-5681, kaustuv.k.sahoo@okstate.edu

Highly motivated and result driven pharmaceutical scientist with a background in formulation development,

pharmaceutical operations and regulatory practices with excellent communication (verbal and technical),

organizational, and problem-solving skills, seeking an opportunity related to the identification, evaluation and

integration of quality management system with technologies for drug product development

**PROFESSIONAL SUMMARY:**

* Ph.D. in Pharmaceutical Sciences with 3 years of industrial experience (1 year as Operations

executive, 1.4 years as QA executive-from pilot scale to production scale) in a cGMP environment and USFDA approved plant

* Contributed to the manufacture of validation batches and drug product CMC for ANDA filing
* Prepared SOP, Process Validation protocols and reports, Carried out process validation of new and existing products; Initiated Change Control and deviations, Validation batch optimization; Assisted in optimization of process control parameters and product optimization, scale up of batch size from exhibit batch to commercial batch
* Assisted in transfer of product manufacturing process to aid in improving critical quality attributes during batch and continuous operations
* Experience in preformulation (solubility, partition coefficient, and drug-excipient compatibility

of small compounds and peptides) and formulation development of nano-liposomes (radio-labeling and imaging), solid oral dosage forms, and transdermal drug delivery

* Supervised QA team in maintaining GMP
* Demonstrated leadership capabilities, organization, flexibility and the ability to operate in a fast paced environment, lead projects that included identifying and resolving technical issues, adept at prioritization and multi-tasking, work well independently and in team environments.

**Education OUHSC, Department of Pharmacy, Oklahoma City, USA**

PhD (Pharmaceutics and drug design), June 2014, **GPA: 3.67**

**SGSITS, Department of Pharmacy Indore, India**

MS in Pharmaceutics (Industrial Pharmacy), Fall 2007, **GPA: 3.80**

**Sambalpur university, School of Pharmacy Rourkela, India**

Bachelor of Pharmacy with First Class Honors, June 2003, **GPA 3.90**

**Experience**

07/14- ***Post-doctoral Fellow,* Oklahoma State University, Stillwater, OK**

* High intensity focus ultrasound mediated drug delivery
* Mitigation of organo-phosphate toxicity (Targeting of butyrylcholinesterase enzyme to RBCs)
* Developing pediatric formulation of anticancer drugs
* Developing of liposomal formulations of inclusion complex

01/09-06/14 ***Graduate*** ***Research Assistant***, **OUHSC, Department of Pharmacy** **Oklahoma City, OK**

* Dissertation on Development of CLEFMA as a novel anticancer drug, Imaging radiolabeled liposomes and compounds to evaluate pharmacokinetics and biodistribution in rodents
* Developed anticancer compounds and their delivery (liposomes) systems for better efficacy and biodistribution; Published four scientific articles that contributed to research grants worth $30K
* Solubility enhancement studies on hydrophobic drugs using cyclodextrins, phase solubility analysis, formation and characterization of inclusion complexes by DSC and XRD,
* Managed Small Animal Imaging facility for contract services to research teams

01/08-11/08  ***Lecturer- Pharmacy*, SWAMI VIVEKANAND COLLEGE OF PHARMACY Indore, India**

* Managed class of 60 seniors; taught courses in pharma manufacturing and drug delivery systems
* Revised manufacturing pharmacy curriculum; introduced new lab sessions to engage students

10/05-11/07 **Shri Govindram Sheksaria Institute of Technological Sciences, Dept. of Pharmacy**

***Research Assistant* Indore, India**

* Dissertation on formulation and development of gastro-retentive floating drug delivery system of repaglinide and verapamil
* Developed Aceclofenac Agglomerates by Crystallo-Co-Agglomeration Technique

11/04-10/05 **RANBAXY LABORATORIES LIMITED** (Now Daiichi Sankyo)

***Executive-Operations* Dewas, India**

* Ensured compliance of validation batches during manufacturing; managed change control and deviation process; validated cleaning process and systems in place
* Responsible for process development and scale-up projects from pilot to commercial level for coated tablets and granules
* Solid dosage process experience includes granulation, milling, blending, compression (single layer tablets, and bilayer tablets), and coating (active, controlled release).
* Improved quality investigation reporting and sampling schedules that helped reduce inter- and intra-batch variations; worked with R&D and regulatory team for product registration and modification; revised technician schedule to improve quality monitoring
* Maintained cGMP and reviewed SOP of in-process activities, data, documentation, facilities and systems, reviewed BMRs for compliance, deviation and non-conformance of the shop floor
* Applied SUPAC to approved ANDA regulatory guidance for technology transfers/scale-ups
* Responsibilities included the supervision of granulation, compression and coating departments, review of batch records, and assisting Technology Transfer with the Validation of new processes.
* Gained experience with the roller compaction process, Responsibilities included conducting unit operations, such as blending, roller compaction and compression.

All these activities contributed to product registration (USFDA, MHRA, ANVISA, etc.)

06/03-10/04 **ALCHEMY CHEMICALS** (India’s leading producer of herbal drugs and chemicals)

***Quality Assurance Executive* Ujjain, India**

* Maintained GMP and reviewed SOP of in-process activities, data, documentation, facilities and systems that contributed to GMP certification
* Supervised Change control and Deviation Process, overall IPQA activities, Ten and six-point sampling according to validation procedures
* Supervised a group of QA personnel to improve in-process sampling processes by 50%

**Internships ZYG PHARMA LTD.** **Indore, India**

06/06-08/06 Requalification of HVAC System, Water System, Sterilizer, and Aseptic area environment which contributed to the operational qualification of HVAC system

04/03-06/03 **Karnataka Antibiotics & Pharmaceuticals Limited** **Bangalore, India**

Industrial training in all the departments of Parenterals (Dry Powder Injectables, Liquid Injectables) & Non-Parenterals (Tablets, Capsules, Liquid Orals) & Quality control & Assurance, Packaging,

**Skills** Tablet and granules coating using FBD; modified drug delivery systems, preformulation and formulation development, technology transfer and scale-up, Liposome (Extrusion and High pressure homogenization); solubilization techniques; Lyophilization; Preformulation characterization, DLS and TEM-based particle sizing, cGMP related activities; IPQA activities

Imaging software (AMIRA, Invivoscope); Statistical Software (Prism, SAS, Winlonin)

**Personal** ● President, International Student Organization, OUHSC- led to successful nomination of permanent Student Association executive council committee member

● President, Indian Student Association, OUHSC

● Student Representative, Pharmaco-Imaging Focus group, AAPS, USA

● Member, Graduate Affairs Committee and Graduate Research Committee, College of Pharmacy

● Outstanding Student Service Award-2011, OUHSC, Oklahoma City, OK

● Fluent in English, Hindi, Bengali and Oriya; **Willing to relocate**