

Curriculum-vitae

Personal Information

Name Sujan Chandra Sigdel
Date of Birth March 05, 1985
Corresponding address NayaBazar, Pokhara-9, Nepal
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Education

2012–2016 Doctor of Philosophy in Chemical Engineering (Biomolecular Engineering)
Konkuk University, Seoul, South Korea
Advisor: Prof. Dr. Jung-Kul Lee, *Thesis: "Hybrid Rational Design of Isomerases and Methane Monoxygenase "*.

2008–2011 Masters in Life Science Informatics (Bioinformatics)
University of Bonn, Bonn, Germany
Advisor: Prof. Dr. Christa E. Müller, *Thesis: "The P2Y₂ Receptor and its Ligands: Synthesis, Receptor Modeling and Docking Studies"*

2002–2006 Bachelors in Pharmaceutical Sciences
The School of Pharmaceutical and Biomedical Sciences, Pokhara University, Pokhara, Nepal
Advisor: Prof. Dr. Purusotam Basnet, *Thesis: "Phytochemical Studies and Antimicrobial Activities of Eupatorium glandulosum Kunth"*

2001–2002 Higher Secondary
Sagarmatha Higher Secondary School, Pokhara, Nepal

1991–2001 School Leaving Certificate
Prativa Awasiya Ma. Vi., Pokhara, Nepal

Professional experience

Aug. 2018- Till date Research Director, Pokhara Pharmaceuticals Pvt. Ltd, Pokhara, Nepal

Oct. 2017- Till date Adjunct faculty, School of Health and Allied Sciences, Pokhara University;
Regional Collage of Health Science and Technology, Pokhara, Nepal

2013–2016 Graduate School Teaching Assistant , Konkuk University, Seoul, South Korea

Mar. 2012–Aug. 2012 Researcher, Department of Chemical Engineering, Konkuk University, Seoul, South Korea

Dec. 2006–Sep. 2008 Assistant Lecturer of Diploma In Pharmacy Programme Shradha Institute of Health Science, Bhaktapur, Nepal

Research Interest

1. Enzyme catalysis and Protein engineering.
2. Homology modeling and drug designing;
3. Phytochemical screening of traditionally used medicinal plants.

Scientific Publications

1. **Sigdel, S.**, J. Li, T. Kim, J.K. Lee. Mutant sugar isomerase with improved activity, derived from *E. coli*, and production of L-gulose using the same 2017. United States patent (US 2017/0191098 A1)
2. **Sigdel, S.**, R. Singh, T. Kim, J. Li, S.Y. Kim, I.W. Kim, W.S. Jung, C.H. Pan, Y.C. Kang, J.K. Lee. Characterization of a Mannose-6-Phosphate Isomerase from *Bacillus amyloliquefaciens* and Its Application in Fructose-6-Phosphate Production **2015**. *PLoS ONE* 10(7) 1-15.
3. **Sigdel, S.**, G. Hui, T.J. Smith, J.C. Murrell, J.K. Lee. Molecular dynamics simulation to rationalize regioselective hydroxylation of aromatic substrates by soluble methane monooxygenase **2015**. *Bioorganic and Medicinal Chemistry* 25 (7), 1611-1615.
4. Singh R., R.K Singh, S.Y. Kim, **Sigdel, S.**, J.H. Park, J.H. Choi, I.W. Kim, JK Lee. D-Ribulose production by a ribitol dehydrogenase from *Enterobacter aerogenes* coupled with an NADH regeneration system **2016**. *Biochemical Engineering Journal*.109 (15) 189-196.
5. Singh R., R.K Singh, I.W. Kim, **Sigdel, S.**, V.C. Kalia, J.K. Lee. An efficient ribitol-specific dehydrogenase from *Enterobacter aerogenes* **2015**. *Enzyme and Microbial Technology*. 287, 56-64.
6. Kim T., H.M. Jung, S.Y. Kim, L. Zhang, J. Li, **Sigdel, S.**, J.H. Park, J.R. Haw, J. K. Lee. Reduction of Acetate and Lactate Contributed to Enhancement of a Recombinant Protein Production in *E. coli* BL21 **2015**. *J. Microbiol. Biotechnol.* 25 (7) 1093-1100.

Memberships

Jun. 2007 Registered Pharmacist of Nepal Pharmacy Council. Registration no.:G432
