

CV: Pritam Guha, PhD Chemistry

PERSONAL INFORMATION	Current Address
Name: Dr. Pritam Guha Date of Birth: 03/02/1989 Sex & Marital Status: Male & Married Nationality: Indian ORCID ID: 0000-0003-4388-0936 WoS Researcher ID: AAB-4154-2021 E-mail: pritam.guha@savba.sk drpritamguha@gmail.com Mobile number: +919832006184, +421951847970	Department for Biomaterials Research Polymer Institute Slovak Academy of Sciences Dubravska cesta 9, 84541 Bratislava, Slovakia

EDUCATION:

Ph.D. (Chemistry), Duration: 2013 –2019, **University:** University of North Bengal

Thesis: Physicochemical Studies on Liposome Mimetic Systems and their Complexes with Biologically Relevant polymers

Role and activities: My PhD thesis focused on fabrication and characterizations of lipid nanoparticles with an aim to translate them as drug delivery nano-vehicle.

M.Sc. (Chemistry): University of North Bengal, Darjeeling, India, **2009 –2011**

B.Sc. (Chemistry): University of North Bengal, Darjeeling, India, **2006 –2009**

PROFESSIONAL EXPERIENCE:

1. Position: Postdoctoral Fellow, **Duration:** 03-2022 to till to date

Institution name/Country: Polymer Institute, Slovak Academy of Science/Bratislava, Slovakia.

2. Position: Postdoctoral Fellow, **Duration:** 12-2019 to 12-2020

Institution name/Country: Harbin Institute of Technology/Shenzhen, China.

Instrument Experiences: Langmuir Blodgett (LB) Surface Balance, Dynamic Light Scattering (DLS), Differential Scanning Calorimetry (DSC), Fluorescence Spectroscopy: Anisotropy, Lifetime measurement, Fluorescence Microscopy, FT-IR Spectroscopy, UV/VIS Spectroscopy, Lyophilizer, UltraSound and probe Sonicator, Small Angle Neutron Scattering (SANS), Small Angle x-ray Scattering (SAXS), Atomic Force Microscopy (AFM), HPLC, GPC, NMR, Hemolysis assay, MTT Assay, Transmission Electron Microscopy (TEM), Freeze-Fracture TEM (FF-TEM) and Scanning Electron Microscopy (SEM), Second Harmonic generation (SHG) and Two Photon Fluorescence (TPF).

Computer Skills: EndNote, Microcal Origin, Chemoffice, MsOffice, Adobe etc. and other web resources like SciFinder.

PUBLICATIONS:

1. Shan Xue, **Pritam Guha**, Qunhui Yuan, and Wei Gan*. *In Situ Spectroscopic Probes for Structures and Processes at the Surface of Noble Metallic Nanoparticles*. **Particle and Particle Systems Characterization**, **2021**, 38, 2000316, **IF:** 3.467, No. of citations: 4, **DOI:** 3.46710.1002/ppsc.202000316.
2. Yundan Ruan, **Pritam Guha**, Shun-Li Chen, Qunhui Yuan, and Wei Gan*. *Observing the structural variations on binary complex vesicle surfaces and the influence on molecular transportation*. **Chemical Physics**, **2021**, 548, 111250, **IF:** 2.552, No. of citations: 2, **DOI:** 10.1016/j.chemphys.2021.111250.
3. Roy, Biplab; **Guha, Pritam**; Nahak, Prasant; Karmakar, Gourab; Maiti, Souvik; Mandal, Amit; Bykov, Alexey; Akentiev, Alexander; Noskov, Boris; Tsuchiya, Koji; Torigoe, Kanjiro; Panda, Amiya*. *Biophysical Correlates on the Composition, Functionality and Structure of Dendrimer-Liposome Aggregates*. **ACS Omega**, **2018**, 3, 12235–12245, **IF:** 4.132, No. of citations: 4, **DOI:** 10.1021/acsomega.8b01187.
4. Prasant Nahak, Rahul L Gajbhiye, Gourab Karmakar, **Pritam Guha**, Biplab Roy, Shila Elizabeth Besra, Alexey G Bikov, Alexander V Akentiev, Boris A Noskov, Kaushik Nag, Parasuraman Jaisankar, Amiya Kumar Panda*. *Orcinol Glucoside Loaded Polymer - Lipid Hybrid Nanostructured Lipid Carriers: Potential Cytotoxic Agents against Gastric, Colon and Hepatoma Carcinoma Cell Lines*. **Pharmaceutical Research**, **2018**, 35, 198, **IF:** 4.580, No. of citations: 11, **DOI:** 10.1007/s11095-018-2469-3.
5. **Pritam Guha**, Biplab Roy, Prasant Nahak, Gourab Karmakar, Chien H. Chang, Alexey G. Bikov, Alexander B. Akentiev, Boris A. Noskov, Amit K. Mandal, Anup Kumar, P. A. Hassan, V. K. Aswal, Takeshi Misono, Kanjiro Torigoe, and Amiya K. Panda*. *Exploring the dual impact of hydrocarbon chainlength and Piroxicam a conventional NSAID on Soylecithin/Ion pair amphiphiles mediated hybrid vesicles for brain – tumors targeted drug delivery*. **Colloids and Surfaces A**, **2018** 546, 334–345, **IF:** 5.518, No. of citations: 2, **DOI:** 10.1016/j.colsurfa.2018.03.025.
6. Gourab Karmakar, Prasant Nahak, **Pritam Guha**, Biplab Roy, Priyam Chettri, Takeshi Misono, Kanjiro Torigoe, Anup Kumar, Ranendu Kumar Nath, Sukhen Bhowmik, Utpal Chandra De, Amiya Kumar Panda*. *Use of ion pair amphiphile as an alternative of natural phospholipids in enhancing the stability and anticancer activity of oleanolic acid loaded nanostructured lipid carriers*. **Colloids and Surfaces A**, **2018**, 545, 147–156, **IF:** 5.518, No. of citations: 3, **DOI:** 10.1016/j.colsurfa.2018.02.039.
7. G. Karmakar. P. Nahak. P. Chettri. B. Roy, **P. Guha**. K. Tsuchiya. K. Torigoe. A. Kumar. R. K. Nath. S. Bhowmik. U. C. De. A. K. Panda*. *Physicochemical Characterization of Chrysin Derivative Loaded Nanostructured Lipid Carriers with Special Reference to Anticancer Activity*. **Journal of Surfactant and Detergent**, **2018**, 21, 421-432, **IF:** 1.95, No. of citations: 1, **DOI:** 10.1002/jsde.12033.
8. Bhadra, A.; Karmakar, G.; Nahak, P.; Chettri, P.; Roy, B.; **Guha, P.**; Mandal, K. A.; Nath, K. R.; Pnda, A. K*. *Impact of detergents on the physiochemical behavior of itraconazole loaded nanostructured lipid carriers*. **Colloids and Surfaces A**, **2017**, 516, 63-71, **IF:** 5.518, No. of citations: 9, **DOI:** 10.1016/j.colsurfa.2016.12.009.
9. R. Bhattarai, T. Sutradhar, B. Roy, **P. Guha**, P. Chettri, A. K. Mandal, A. G. Bykov, A. V. Akentiev, B. A. Noskov and A. K. Panda*. *Double-Tailed Cystine Derivatives as Novel Substitutes of Phospholipids with Special Reference to Liposomes*. **The Journal of Physical Chemistry B**, **2016**, 120, 10744-10756, **IF:** 3.466, No. of citations: 8, **DOI:** 10.1021/acs.jpcc.6b06413.
10. Nahak, P.; Karmakar, G.; Chettri, P.; Roy, B.; **Guha, P.**; Besra, S. E.; Soren, A.; Bykov, A. G.; Akentiev, A. V.; Noskov, B. A.; Panda, A. K*. *Influence of Lipid Core Material on Physicochemical Characteristics*

of an Ursolic Acid-Loaded Nanostructured Lipid Carrier: An Attempt to Enhance Anticancer Activity. Langmuir, 2016, 32, 9816-9825, IF: 3.77, No. of citations: 35, DOI: 10.1021/acs.langmuir.6b02402.

11. Biplab Roy, **Pritam Guha**, Ravi Bhattarai, Prasant Nahak, Gourab Karmakar, Priyam Chettri, Amiya Kumar Panda*. *Influence of Lipid Composition, pH, and Temperature on Physicochemical Properties of Liposomes with Curcumin as Model Drug. Journal of Oleo Science, 2016, 65, 399-411, IF: 1.628, No. of citations: 60, DOI: 10.5650/jos.ess15229.*
12. Koirala, S.; Roy, B.; **Guha, P.**; Bhattarai, R.; Sapkota, M.; Nahak, P.; Karmakar, G.; Mandal, A. K.; Kumar, A.; Panda, A. K*. *Effect of double tailed cationic surfactants on the physicochemical behavior of hybrid vesicles. RSC Advances, 2016, 6, 13786-13796, IF: 4.036, No. of citations: 18, DOI: 10.1039/c5ra17774j.*
13. Gourab Karmakar, Prasant Nahak, **Pritam Guha**, Biplab Roy, Priyam Chettri, Manish Sapkota, Suraj Koirala, Takeshi Misono, Kanjiro Torigoe, Shilpi Ghosh, Amiya Kumar Panda*. *Effects of Fatty Acids on the Interfacial and Solution Behavior of Mixed Lipidic Aggregates Called Solid Lipid Nanoparticles. Journal of Oleo Science, 2016, 65, 419-430, IF: 1.628, No. of citations: 4, DOI: 10.5650/jos.ess15234.*
14. **Guha, P.**; Roy, B.; Karmakar, G.; Nahak, P.; Koirala, S.; Sapkota, M.; Misono, T.; Torigoe, K.; Panda, A. K*. *Ion-Pair Amphiphile: A Neoteric Substitute That Modulates the Physicochemical Properties of Biomimetic Membranes. The Journal of Physical Chemistry B, 2015, 119, 4251-4262, IF: 3.466, No. of citations: 13, DOI: 10.1021/jp512212u.*
15. Sapkota, M.; Karmakar, G.; Nahak, P.; **Guha, P.**; Roy, B.; Koirala, S.; Chettri, P.; Das, K.; Misono, T.; Torigoe, K.; Panda, A. K*. *Effect of polymer charge on the formation and stability of anti-inflammatory drug loaded nanostructured lipid carriers: physicochemical approach. RSC Advances, 2015, 5, 65697-65709, IF: 4.036, No. of citations: 10, DOI: 10.1039/c5ra11066a.*
16. Nahak, P.; Karmakar, G.; Roy, B.; **Guha, P.**; Sapkota, M.; Koirala, S.; Chang, C.-H.; Panda, A. K*. (2015). *Physicochemical studies on local anesthetic loaded second generation nanolipid carriers. RSC Advances, 2015, 5, 26061-26070, IF: 4.036, No. of citations: 24, DOI: 10.1039/c4ra16434b.*

INVITED PRESENTATIONS:

- Global Academic Program: Universitas Indonesia & Hanyang University, Seoul "Functional Materials for Health, Energy and Environment" 2021. Feb. 23-26.

PRIZES AND AWARDS:

1. **Senior Research fellowship** UGC-BSR (University Grant Commission-Basic Scientific Research), Government of India.
2. Awardee of **Postdoctoral Fellowship**, Polymer Institute, Slovak Academy of Science, Bratislava, Slovakia (03, 2022-till to date).
3. Awardee of **Postdoctoral Fellowship**, School of Science, Harbin Institute of Technology, Shenzhen, China (12, 2019-12, 2020).
4. Awardee of **Postdoctoral Fellowship**, Hanyang University, Seoul, Republic of Korea (February, 2021).
5. Awardee of **Türkiye Burslari Scholarships (24th August, 2021)**.
6. Awardee of certificate as **Young Scientist** for oral presentation in 17th National Conference on Surfactants, Emulsions and Biocolloids (NATCOSEB), held in Pt. Ravishankar Shukla University, Raipur on November 4-6, 2015.

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