

CURRICULUM VITAE

Dr. Md Hasan Turabee

Senior Research Officer

Bangladesh Forest Research Institute, Sholoshar Chattogram, Bangladesh.

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CURRENT POSITION

Senior Research Officer, Bangladesh Forest Research Institute, Sholoshar Chattogram, Bangladesh.

PROFESSIONAL EXPERIENCE

- 2018.3 to 2019.06** **Research professor**, NanoDDS Lab, College of Pharmacy, Gachon University medical campus, Incheon, South Korea.
- 2019.07 to 2020.05** **Postdoctoral researcher**, Functional Polymer Laboratory, Department of Chemistry, University of Ulsan, Ulsan, South Korea
- 2020.06 to 2022.06** **Postdoctoral Researcher**, Advanced Nanomaterials Lab, Department of Polymer Science and Engineering, Pusan National University, Busan, Korea.

ACADEMIC QUALIFICATIONS

2018. 02 Ph. D. in Chemical Engineering

Sungkyunkwan University South Korea.

Dissertation title: Study on pH/temperature-sensitive injectable polypeptide and gelatin-polymer conjugate hydrogels for protein delivery and wound healing.

Advisor: Professor Doo Sung Lee

2010. 06 (Held in 2012) MS, Inorganic and Analytical Chemistry

University of Dhaka, Dhaka, Bangladesh.

Thesis title: Study of ambient air quality parameter and heavy metals in particulate matters.

Advisor: Professor A. M. Shafiqul Alam

2009. 06 (Held in 2010) BS, Chemistry

4th year Project: Estimation of gaseous pollutants in air and heavy metals content in suspended particulate matter in and around Dhaka city.

Advisor: Professor A. M. Shafiqul Alam

RESEARCH EXPERIENCE AND SKILLS

- ❖ Polymer synthesis and purification, Free radical polymerization, RAFT, Polymers/materials functionalization, bio-conjugation chemistry
- ❖ Preparation of therapeutics delivery systems
- ❖ Substantial experience in materials characterization using NMR, FTIR, GPC, HPLC, LC-MS, SEM, rheology instrument, particles size and zeta-potential measurement,

sol-gel phase transition determination, MALDI-ToF, SDS-PAGE, ELISA assay, histological study, fluorescence measurement.

- ❖ Perform *in vivo* experiments, such as pharmacokinetics study of therapeutic agents, biodegradability and biocompatibility of biomaterials, diabetic and full thickness wound healing on mouse and rat models.
- ❖ Perform cell culture and MTT assay.

RESEARCH INTEREST

- Biomaterials/Functional polymers
- Delivery systems for anticancer drug, proteins and genes
- Stimuli responsive polymeric hydrogels
- Tissue engineering
- Wound healing
- Tunable polymeric sensor

PUBLICATIONS

1. **Md. Hasan Turabee**, Thavasyappan Thambi, Jae Seung Lym and Doo Sung Lee, Bioresorbable polypeptide-based comb-polymers efficiently improves the stability and pharmacokinetics of proteins *in vivo*, *Biomaterial Science*, 2017, 5, 837.

2. **Md. Hasan Turabee**, Thavasyappan Thambi, Huu Thuy Trang Duong Ji Hoon Jeong and Doo Sung Lee, A pH- and temperature-responsive bioresorbable injectable hydrogel based on polypeptide block copolymer for the sustained delivery of proteins *in vivo*, *Biomaterial Science*, 2018, 6, 661.

3. **Md Hasan Turabee**, Tae Ho Jeong, Prakash Ramalingam, Ji Hee Kang, Young Tag Ko, N,N,N-trimethyl chitosan embedded in situ Pluronic F127 hydrogel for the treatment of brain tumor, *Carbohydrate Polymers* 203 (2019) 302–309.

4. V.H. Giang Phana, Huu Thuy Trang Duong, Thavasyappan Thambib, Thanh Loc Nguyen, **Md. Hasan Turabee**, Yue Yinc, Seong Han Kim, Jaeyun Kim, Ji Hoon Jeong, Doo Sung Lee, Modularly engineered injectable hybrid hydrogels based on protein-polymer network as potent immunologic adjuvant *in vivo*, *Biomaterials* 195 (2019) 100–110.

5. **Md. Hasan Turabee**, Thavasyappan Thambi and Doo Sung Lee, Development of injectable tissue-adhesive hybrid hydrogel for growth factor-free tissue integration in advanced wound regeneration, *ACS Appl. Bio Mater.* 2019, 2, 6, 2500-2510.

6. Rini Sharma, Ujjal Haldar, **Md Hasan Turabee**, Hyung-il Lee, Recyclable macromolecular thermogels for Hg (II) detection and separation via sol-gel transition in complex aqueous environments, *Journal of Hazardous Materials*, 2021, 410, 124625.

7. Ji Hee Kang, **Md Hasan Turabee**, Doo Sung Lee, Young Jik Kwon, Young Tag Ko, Temperature and pH-responsive *in situ* hydrogels of gelatin derivatives to prevent the reoccurrence of brain tumor, *Biomedicine & Pharmacotherapy*, 2021, 143, 112144.

CONFERENCE PRESENTATIONS

1. Md Hasan Turabee, Jaeseung Lym and Doo Sung Lee, Synthesis and characterization of stimuli responsive biodegradable polypeptide hydrogel, Tissue Engineering and Regenerative Medicine International Society-Asia Pacific Meeting 2016, Tamsui, Taiwan. (Poster presentation)

2. Md Hasan Turabee, Jaeseung Lym and Doo Sung Lee, Synthesis and characterization of stimuli responsive biodegradable polypeptide hydrogel, International Symposium on Translational Nanomedicine 2015, Guangzhu, China. (Poster presentation)

COMPUTING KNOWLEDGE

- Using & Operating the PC- Basics of Operating System, file system
- MS Word- Editing, formatting, working with tables, drawing, etc.
- MS Power Point- Creating and editing presentation
- MS Excel- Creating worksheets, workbooks, editing formulas.
- Photoshop
- Sigma plot, Chemoffice, 3-D Rhinoceros simulation

LANGUAGES KNOWN

Language	Speaking	Reading	Writing
Bengali	Mother tongue		
English	Excellent	Excellent	Excellent
Korean	Beginner	Beginner	Beginner

PERSONAL INFORMATION

Date of Birth: 16.09.1987

Place of Birth: Jessore, Khulna, Bangladesh.

Nationality: Bangladeshi

Religion: Islam

Marital Status: Married

PRESENT AND MAILING ADDRESS

Senior Research Officer, Bangladesh Forest Research Institute, Sholoshar Chattogram, Bangladesh.

PERMANENT ADDRESS

Ahsannagar, Dogasia, Kotwali, Jessore, 7407, Bangladesh.

I declare that, to the best of my knowledge above said information's are true.