CURRICULUM VITAE

Name: Thi-Hiep Nguyen

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International University,
Vietnam National University - Ho Chi Minh City
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Academic Title

2019 International University, Vietnam (Assoc. Prof)

Education

2009 – 2012 SoonChunHyang University, Korea (Ph.D.)
Department of Regenerative Medicine, College of Medicine.

2007 – 2009 SoonChunHyang University, Korea (M.S.E.)
Department of Regenerative Medicine, College of Medicine,

2006 – 2007 Ajou University, Suwon, Korea (Postgraduate researcher)
Biomaterials and Tissue Engineering Lab

2002 – 2006 University of Science-Ho Chi Minh, Vietnam (B.Sc)
Department of Chemistry

2003 – 2006 Ho Chi Minh City University of Social Sciences and Humanities
Department of Foreign Languages
English In-service Classes

Work Experience

2018 – present Dean
School of Biomedical Engineering, International University,
Vietnam National University – Ho Chi Minh City

2013 – present Lecturer
School of Biomedical Engineering, International University
Vietnam National University – Ho Chi Minh City

2012 – 2013 Assistant Professor
Department of Biomedical Engineering, International University
Vietnam National University – Ho Chi Minh City

Professional activities

Invited *for*

The 2017 Women in STEM Conference: Gender Roles in Education, Leadership and Culture
Topic: Turning Challenges into Your Launch Pad for Success
The First 2016 Women in STEM Conference: Women in Entrepreneurship and Innovation
Topic: Leadership & Women in Technology Developing and Leading in STEM: critical Competencies to Advance your Career"
The annual scientists meeting at SHTP
Topic: Application of Silk-Collagen-Chitosan in Tissue Engineering and Regenerative Medicine
The workshop L'Oreal for Women in Science
Topic: How to apply for the L'OREAL For Women in Science National Fellowship 2017
Chat with Scientists
Topic: What is Tissue Engineering and Regenerative Medicine

Established The collaborations between the Department of Biomedical Engineering, International University and the R&D center- Sai Gon Hi– Tech Park

The collaborations between the Department of Biomedical Engineering and the Medicine and Pharmacy University-Ho Chi Minh City.

The collaborations between the Department of Biomedical Engineering and the Institute of Applied Materials Science, Vietnam Academy of Science and Technology

The Tissue Engineering and Regenerative Medicine Orientation and Laboratories, International University Vietnam National University – Ho Chi Minh City

***Nominated** for*

The Global Young Scientists Summit 2017, Singapore. January 2017.
L'Oréal - UNESCO for Women in Science International Rising Talents Award Committee

Membership in Academic Society

Saigon Scientists
L'Oreal UNESCO for Women in Science

Honors/Awards

2021 * Certificate of Merit from the Party Committee of VNU-HCM for outstanding achievements in studying and following Ho Chi Minh's ideology, morality and style in the 2016-2021 period.
* Certificate of Merit from the the Party Committee of VNU-HCM for outstanding achievements in the "Outstanding People's Movement" in the 2015-2020 period.

2020 *Excellent researcher from 2018-2019, International University, Vietnam National University.
* Certificate of VNU-HCM for the achievement of "Excellent Scientific Publication" and "Annual Science and Technology VNU-HCM" Awards. in 2019 – 2020
*Certificate of Merit from the Minister of Education and Training For outstanding achievements in the patriotic emulation movement of the Education sector in the 2016-2020 period
* Certificate of Merit from the President of VNU-HCM for successfully completing the task from the academic year 2018 - 2019 to the academic year 2019 - 2020.
* The project "Smart glue in wound healing treatment" was selected, edited, published and released for the Vietnam Innovation Gold Book 2020.

2019 *Excellent researcher from 2016-2018, International University, Vietnam National University.
* Outstanding researcher for excellent great contribution in success of Vietnam National University, Vietnam National University.

* The first prize in Innovation Awards Ho Chi Minh City
* Top 100 most outstanding scientists in Asia released by Singapore's Asian Scientist magazine

2018 * Outstanding performance from 09/2015 to 06/2018, Vietnam National University, June 2018, Ho Chi Minh, Vietnam.
* Learning and Working following Ho Chi Minh Thoughts Award, May 2018, Ho Chi Minh, Vietnam.
* The L'Oreal UNESCO for Women in Science, International Rising Talents 2018, March 2018, Paris, France.

2017 * The outstanding lecturer of the year 2017, International University, Vietnam National University.
* The winner of ASEAN-US Prize Science for Women in 2017, ASEAN.
* Excellent researcher for outstanding applicable projects Prize, VNU-HCMC, Vietnam.
* Scientist has ISI publication Prize, VNU-HCMC, Vietnam.
* Scientist has ISI publication Prize, International University, Vietnam.

2016 * Scientist has ISI publication, VNU-HCMC, Vietnam.
* The L'Oreal UNESCO for Women in Science, National Fellowship Program, Vietnam.

2011 * The best designer of ideas competition, SoonChunHyang University, Korea.

2010 * Full scholarship for PhD Program, SoonChunHyang University, Korea.

2008 * Full scholarship for Master Program, SoonChunHyang University, Vietnam.
* The best student research, National Competition, Vietnam.

2007 * The best student research, Vietnam National University – Ho Chi Minh City Competition, Vietnam.

Review for

International Journal of Nanomedicine
Journal of Biomaterials Applications
Journal of Biomedical Materials Research: Part B - Applied Biomaterials
Nature

Other activities

Connect women with science

Supervised

21 Undergraduate students
4 Master students
1 PhD student

VISITING RESEARCHER at

2018

Portsmouth University, UK, 2018
Blizard Institute, Queen Marry University of London, UK. January 2018.

2017

Institute of Biomedical Science, Oxford, UK. January 2017.
Blizard Institute, Queen Marry University of London, UK. January 2017.
Department of Computer Science, University of Sheffield, Sheffield, UK. January 2017

2016

Office of Naval Research, US. November 2016.
Naval Research Laboratory, US. November 2016.
Naval Medical Research Center, US. November 2016.

Research Interests

1. Biomaterials for skin and Bone regeneration.
2. Injectable hydrogel systems for skin and bone regeneration.
3. Control/release drug/growth factors.
4. Electrospinning system, nano/micro-particles.
5. Titanium modifications: targeting soft tissue interaction
6. Stem cell differentiation: using human bone marrow stem cells (hBMSC) model, mesenchymal stem cells derived.
7. Extraction and Isolation of Biomaterials from natural sources.
8. Biomaterials for Cosmetics applications.
9. Surface modification of medical filtration such as artificial kidney.
10. Control/release of anticancer drugs.

Grants

A. Closed out

1. Research on fabrication and evaluation of biochemical properties of artificial blood vessels based on Polyurethane/Polycaprolactone (Nghiên cứu chế tạo và đánh giá tính chất sinh hóa của mạch máu nhân tạo trên cơ sở Polyurethane/Polycaprolactone). Funded by Vietnam National Foundation for Science and Technology Development (NAFOSTED). Scientific Research Contract No 20/2018/108/HĐTN signed on 01/12/2018. **Grant No. 108.06-2018.18 (2018-2020). Principle investigator.**

2. Investigation and Optimization of Antimicrobial Properties and Biocompatibility of Polyvinyl Alcohol/Chitosan/Silver for Wound Skin Regeneration. **Grant No. C2018-28-02/HĐ-KHCN (2018-2019). Principle investigator.**

3. Eramus + KA1-Learning Mobility of Individuals. **Grant No. KA017-2017-2018 (2018). Principle investigator**

4. Fabrication of AHA-NOCC-PVPA-BCP (Aldehyde Hyaluronic Acid (AHA), N,O-Carboxymethyl Chitosan (NOCC), Poly(Vinyl Phosphonic Acid) (PVPA), Biphasic Calcium Phosphate (BCP)) hydrogel for bone regeneration. Funded by IU-VNU HCMC. **Grant No. T2017-03-BME/HĐ-ĐHQT-QLKH (2017). Principle investigator.**

5. Development of a DC (Direct Current) high voltage power to use in electrospinning equipment. (Chế tạo bộ nguồn cao áp một chiều để sử dụng trong vận hành của máy Electrospinning). Funded by IU-VNU HCMC. **Grant No. T2016-04-BME (2016). Participant.**

6. Modification of Col-I/Fn on titanium surface using electrochemical deposition method: Its characterization and biocompatibility. Funded by L'Oreal Vietnam. **Grant No. 201613 (2016-2017). Principle Investigator.**

7. High Risk Neuroblastoma from Vietnamese Children with ARID1A/1B Mutation. Funded by the NAFOSTED. **Grant No. 106-YS.06-2014.48 (2015-2017). Participant.**

8. Investigation on synthesis of nano biphasic calcium phosphate for hypersensitive teeth applications. Funded by IU-VNU HCMC. **Grant No. T2016-02-BME/HĐ-ĐHQT-QLKH (2016). Principle investigator.**
9. Modelling the soft-tissue mechanobiology of wound healing for a Newton Institutional Links Award. Funded by the Predictive mOdelling for hEalthcare technology through MathS (POEMS) travel grant United Kingdom. http://poems.group.shef.ac.uk/eventsActivities.html **(2016). Principle investigator.**
10. Developing a Needleless Suturing Kit for Wound Repair. Funded by the **Naval** International Cooperative Opportunities (NICOP) Research Grant. **Grant No. N62909-14-1-N011. (2013-2017). Principle investigator.**
11. VSP - Developing a Needleless Suturing Kit for Wound Repair. Funded by the Office of Naval Research (ONR). **Grant No. N00014-16-R-BA01. (2016). Principle investigator**
12. Fabrication and Pilot Production of Antimicrobial Products for Wound Skin Regeneration. **Grant No. V.02/2013.(2013-2016)**. **Participant.**
13. Investigations of the characteristics of PVA-nano Ag/chitosan, HA/PVPA and HA/PVPA/chitosan for the fabrication of Bioglue for treatment of some wounds on skin. Funded by VNU HCMC. **Grant No. B2013-76-03 (2013-2015)**. **Participant.**
14. Investigation on bone substitute. Funded by the Ministry of Education, Science and Technology (MEST) through the NRF grant. **Grant No. NO 2009-0092808 (2010-2014). Participant.**
15. Investigation on Biomaterials for Soft tissue such as skin and blood vessel. Funded by the Regional Innovation Center (RIC) project of the Ministry of Knowledge and Economy, Republic of Korea. **Grant No. MKE-RIC060605 (2010-2012). Participant.**

B. Running

16. Design and Applications of Electrospinner in Regenerative Medicine for Tissue Engineering (Thiết kế và ứng dụng máy Electrospinning trong nghiên cứu Y học tái tạo). Funded by VNU HCMC. **Grant No. B2019-28-04/HĐ-KHCN (2019-2021). Participant.**
17. Design of Electrospinner for artificial blood vessel applications (Chế Tạo Máy Electrospinner Để Làm Mạch Máu Nhân Tạo Hình Ống Cho Các Bệnh Nhân Tim Mạch. Funded by VNU HCMC. **Grant No. C2020-28-08/HĐ-KHCN (2020-2022). Principle investigator.**
18. Production in pilot-scale of antibacterial membrane for wound dressing application (Nghiên cứu quy trình sản xuất vật liệu kháng khuẩn dạng màng ứng dụng chế tạo băng gạc ở quy mô pilot). Funded by Department of Science and Technology Ho Chi Minh city **(2020-2022). Principle investigator.**
19. Synthesis of N,O-carboxymethyl chitosan-based bioink for bone regeneration. Funded by Ministry of Science and Technology **(2021-2024). Principle investigator.**

Publications

A. BOOKS

1. Vo Van Toi, Le Quoc Trung, Ngo Thanh Hoan and **Nguyen Thi Hiep.** Translational Health Science Technology for Developing Countries. BME7 in Vietnam, IFMBE Proceeding 2018.
2. Mohseni, Mina, Nathan J. Castro, Hoang Phuc Dang, Tan Dat Nguyen, Hieu Minh Ho, Minh Phuong Nam Tran, **Thi Hiep Nguyen**, and Phong A. Tran. "Adipose tissue regeneration:

Scaffold—Biomaterial strategies and translational perspectives." In Biomaterials in Translational Medicine, pp. 291-330. Academic Press, 2019.

3. Vo Van Toi , Nguyen Thi Hiep , Vong Binh Long , Ha Thi Thanh Huong : Proceedings of BME 8, 2020, Vietnam: Healthcare technology for smart city in low- and middle-income countries. Springer publishing house: Springer (May 2021).

B. PATENTS

1. Fabrication of Artificial Bone by the Combination of Electro-spinning, Extrusion and Slurry Processes. **KR 10-2012-0010722**. issued on 6 Feb 2012
2. Nano Ag Loaded PVA Nano-Fibrous Mats for Skin Applications. **KR 10-2012-0010867.** issued on 6 Feb 2012
3. Electro-spinning of PLGA/PCL Blends for Tissue Engineering and Their Biocompatibility. **KR10-2012-0010861.** issued on 6 Feb 2012

C. Articles in ISI Journals (*Corresponding author)

2021

1. Thien Bui-Thuan Do, Tien Ngoc-Thuy Nguyen, Minh Hieu Ho, Nghi Thi-Phuong Nguyen, Thai Minh Do, Dai Tan Vo, Ha Thi-Ngoc Hua, Thang Bach Phan, Phong A. Tran, Hoai Thi-Thu Nguyen, Toi Van Vo, **Thi-Hiep Nguyen***. The efficacy of silver-based electrospun antimicrobial dressing in accelerating the regeneration of partial thickness burn wounds using a porcine model. Polymers. SCIE. IF (2020) 4.329, Q1.
2. Vinh Khanh Doan, Khanh Loan Ly, Nam Minh-Phuong Tran, Trinh Phuong-Thi Ho, Minh Hieu Ho, Nhi Thao-Ngoc Dang, Cheng-Chung Chang, Hoai Thi-Thu Nguyen, Phuong Thu Ha, Quyen Ngoc Tran, Lam Dai Tran, Toi Van Vo and **Thi Hiep Nguyen***. Characterizations and Antibacterial Efficacy of Chitosan Oligomers Synthesized by Microwave-Assisted Hydrogen Peroxide Oxidative Depolymerization Method for Infectious Wound Applications. Materials. SCIE. IF (2020) 3.623, Q2.
3. Mai, Ngoc Xuan Dat, Thu-Ha Thi Nguyen, Long Binh Vong, Minh-Huy Dinh Dang, Trang Thi Thu Nguyen, Linh Ho Thuy Nguyen, Hanh Kieu Thi Ta, **Thi-Hiep Nguyen**, Thang Bach Phan, and Tan Le Hoang Doan. Tailoring chemical compositions of biodegradable mesoporous organosilica nanoparticles for controlled slow release of chemotherapeutic drug. Materials Science and Engineering: C (2021): 112232. SCI. IF (2020) 5.88, Q1.
4. Tien Ngoc-Thuy Nguyen, Thien Bui-Thuan Do, Minh Hieu Ho, Nam Minh-Phuong Tran, Nhi Ngoc-Thao Dang, Thai Minh Do, Hoai Thi-Thu Nguyen, Thang Bach Phan, Quyen Ngoc Tran, Toi Van Vo, and **Hiep Thi Nguyen***. Investigating the effect of multi-coated hydrogel layer on characteristics of electrospun PCL membrane coated with gelatin/silver nanoparticles for wound dressing application. Journal of Biomedical Materials Research Part A. SCI. IF = 3.52. Q1
5. Chau Ngoc-Hai Vo, Duyen Hong-My Do, Thang Bach Phan, Toi Van Vo, Quyen Ngoc Tran, **Hiep Thi Nguyen***. Simple fabrication of a chitin wound healing membrane from soft-shell crab carapace. Materials Letters. SCI. IF = 3.2. Q2
6. Xuan-Truong Mai, Minh-Chien Tran, Anh-Quan Hoang, Phuc Dang-Ngoc Nguyen, Hai Nguyen Tran, **Thi-Hiep Nguyen**, and Phuong-Tung Nguyen. Gold nanoparticles from Celastrus hindsii and HAuCl4: Green synthesis, characteristics, and their cytotoxic effects on HeLa cells. SCIE. IF=1.67. Q3

7. Van Toan Nguyen, Thi Phuong Le, Le Hang Dang, Tan Phuoc Ton, Dinh Trung Nguyen, Nam Nguyen Dang, Bich Tram Nguyen, Vu Van Van, **Thi Hiep Nguyen**, Ngoc Quyen Tran. Cytocompatible dendrimer G3.0-hematin nanoparticle with high stability and solubility for mimicking horseradish peroxidase activity in in-situ forming hydrogel. International Journal of Biological Macromolecules. SCIE. IF=5.20. Q1
8. Nguyen Hoang Bac, Nguyen Thi Hong Minh, Tran Thi Thanh Tam, Vo Thi Hong Nhan, Tran Van Hung, Do Thi Nam Phuong, Truong Quang Binh, **Nguyen Thi Hiep**, Ly Loan Khanh. Knowledge, attitudes, practices, and related factors towards COVID-19 prevention among patients at University Medical Center, Vietnam. Risk Management and Healthcare Policy. SCIE. IF=2.43. Q1
9. Victoria Wall, **Thi-Hiep Nguyen**, Nghi Nguyen and Phong A. Tran. Controlling Antibiotic Release from Polymethylmethacrylate Bone Cement. Biomedicines. SCIE. IF=4.72. Q1

2020

10. Trinh Phuong-Thi Ho, Vinh Khanh Doan, Nam Minh-Phuong Tran, Linh Khanh-Kim Nguyen, An My-Nguyen Le, Minh Hieu Ho, Nhu-Thuy Trinh, Toi Van Vo, Lam Dai Tran, **Thi-Hiep Nguyen***. Fabrication of chitosan oligomer-coated electrospun polycaprolactone membrane for wound dressing application. Material Science Engineering C. IF (2020) 5.88, Q1
11. Hoai My Tran, Anh Hien Tran, Marsilea Booth, Kate Fox, **Thi- Hiep Nguyen**, Nhiem Tran, Phong A. Tran. Nanomaterials for treating bacterial biofilms on implantable medical devices: A Review. Nanomaterials (2020). IF=4.324. Q1
12. An Nguyen-My Le, Nam Minh-PhuongTran, PhongA Tran, Lam Dai Tran, Phan Bach Thang, **Thi-Hiep Nguyen***. Poloxamer additive as luminal surface modification to modulate wettability and bioactivities of small-diameter polyurethane/polycaprolactone electrospun hollow tube for vascular prosthesis applications. Materials Today Communications. (2020). IF=2.678. Q2
13. Phuong Que Tran Do, Vu Thi Huong, Nguyen Tran Truc Phuong, **Thi-Hiep Nguyen**, Hanh Kieu Thi Ta, Heongkyu Ju, Thang Bach Phan, Viet-Duc Phung, Kieu The Loan Trinh and Nhu Hoa Thi Tran. The highly sensitive determination of serotonin by using gold nanoparticles (Au NPs) with a localized surface plasmon resonance (LSPR) absorption wavelength in the visible region, RSC Advances, Q1, IF = 3.119.
14. An Nguyen-My Le, Thanh Truc Nguyen, Khanh Loan Ly, Tin Dai Luong, Minh Hieu Ho, Nam Minh-Phuong Tran, Nhi Ngoc-Thao Dang, Toi Van Vo, Quyen Ngoc Tran and **Thi-HiepNguyen***. Modulating biodegradation and biocompatibility of in situ crosslinked hydrogel by the integration of Alginate into N,O-Carboxylmethyl Chitosan - Aldehyde Hyaluronic Acid network. Polymer Degradation and Stability. (2020). IF=4.032. Q1
15. Nam Tran Minh-phuong, Toan Huynh, Binh Phan, Nhi Dang Ngoc-thao, Thang Bach Phan, Huong Ha, Long Truong, Phu Huynh, Ngoc Quyen Tran, Vo Van Toi, Ha Phuong Thu and **Thi-Hiep Nguyen***. Conjugated linoleic acid grafting improved hemocompatibility of polycaprolactone electrospun membrane. International Journal of Polymer Science. IF=1.646, Q2.
16. Mai Hoang, Khanh Loan Ly, Thoai Kieu, **Thi-Hiep Nguyen*** and Nam Huynh*. Gelatin encapsulated curcumin nanoparticles moderate behavior of human primary gingival fibroblasts in vitro. Journal of nanomaterials. IF=1.980, Q2.
17. Tran, Nam, An Le, Minh Ho, Nhi Dang, Thi Thanh Huong, Long Truong, Dai Phu Huynh, and **Nguyen Thi Hiep***. Polyurethane/polycaprolactone membrane grafted

with conjugated linoleic acid for artificial vascular graft application. Science and Technology of Advanced Materials (2020). IF=5.866. Q1

18. Tran Minh Phuong Nam, Dang Ngoc Thao Nhi, Nguyen Vuong Hoang Long, Nguyen Thi Phuong Nghi, Vo Van Toi, **Nguyen Thi Hiep***. Fabrication of injectable bone substitute loading porous simvastatin-loaded poly(lactic-co-glycolic acid) microspheres. International Journal of Polymeric Materials and Polymeric Biomaterials. 2020. IF=2.127 (2020). Q2

2019

19. Uyen Vy Vo, **Thi Hiep Nguyen**, Manon Gallais, Hieu Vu-Quang, Cuu Khoa Nguyen, Tri Duc Lam, Duy Chinh Nguyen, Long Giang Bach, Dai Hai Nguyen. Porous Nanosilica Hybrids Biocompatible Polymer For Enhancing Anticancer Drugs Loading Efficiency And Targeted Delivery. Materials Today: Proceedings. SCOPUS
20. Tan Dat Nguyen, Khanh Loan Ly, Nam Tran Minh-phuong, Hieu Minh Ho, Trang Tran, Nhi Dang Ngoc-Thao, Vo Van Toi and **Thi Hiep Nguyen***. Effect of microwave irradiation on polyvinyl alcohol as a carrier of silver nanoparticles in short exposure time. International Journal of Polymer Science. IF=1.892, Q2.
21. Hien Anh Tran , Khanh Loan Ly, Phong A. Tran, and **Nguyen Thi Hiep**. Immobilization of antimicrobial silver and antioxidant flavonoid as a coating for wound dressing materials. International Journal of Nanomedicine. IF=4.471, Q1.
22. Minh Hieu Ho , Thien Bui-Thuan Do , Nhi Ngoc-Thao Dang , An Nguyen-My Le , Hanh Thi-Kieu Ta, Toi Van Vo and **Hiep Thi Nguyen** Effects of an Acetic Acid and Acetone Mixture on the Characteristics and Scaffold–Cell Interaction of Electrospun Polycaprolactone Membranes. Appl. Sci. 2019, 9, 4350; doi:10.3390/app9204350. IF= 4.520, Q1.
23. Hui Min-David Wang, Ling Fu, Chia Chi Cheng, Rong Gao, Meng Yi Lin, Hong Lin Su, Nathania Earlene Belinda, **Thi Hiep Nguyen**, Wen-Hung Lin, Po Chun Lee *, Liang Po Hsieh * Inhibitions of LPS-induced Oxidative Damages and Inflammations Via Down-regulating NF-κB, COX-2 and iNOS by Phyllanthus Emblica Extract in RAW 264.7 Cells. Antioxidants. IF= 4.520, Q1.
24. Le Hang Dang, Ly Le, Lyna Pham, Toan Nguyen, Minh Dung Truong, **Thi Hiep Nguyen**, Dang Nam Nguyen, Long Giang Bach, Van Thu Le, Tran Ngoc Quyen. A dual synergistic of curcumin and gelatin on thermal-responsive hydrogel based on Chitosan-P123 in wound healing application. Journal of Biomedicine & Pharmacotherapy.
25. Dinh Tien Dung Nguyen, **Thi Hiep Nguyen**, Long Giang Bach, Minh Hieu Ho, Minh Nhat Ho, Dai Hai Nguyen, Cuu Khoa Nguyen. Preparation and characterization of oxaliplatin drug delivery vehicle based on PEGylated half-generation PAMAM dendrimer. IF (2017) 1.434, Q2.
26. Diem Huong Tran Nguyen, **Hiep Thi Nguyen**, Thanh Nguyet Nguyen Vo, Linh Phuong Tran Pham, Do Minh Hoang Vo, Cuu Khoa Nguyen, Long Giang Bach, Hai Dai Nguyen. Self-assembled Poly(ethylene glycol) methyl ether-grafted Gelatin Nanogels for Efficient Delivery of Curcumin in Cancer Treatment. Journal of Applied Polymer Science. 2019. IF=1.9 (2017). Q2
27. The Trinh Pham, **Thi Hiep Nguyen**, Thuan Vo Thi, Thanh-Truc Nguyen, Tien Dung Le, Do Minh Hoang Vo, Dai Hai Nguyen, Cuu Khoa Nguyen, Duy Chinh Nguyen, Trong Tuan Nguyen, and Long Giang Bach. Investigation of Chitosan Nanoparticles Loaded with Protocatechuic Acid (PCA) for the Resistance of Pyricularia oryzae Fungus against Rice Blast. Polymers 2019. IF=3.483 (2017). Q2

28. Nghi Thi-Phuong Nguyen, Long Vuong-Hoang Nguyen, Nhi Tra Thanh, Phong A. Tran, Tran Ngoc Quyen, Vo Van Toi, Hui-Min David Wang and **Thi-Hiep Nguyen***. Stabilization of silver nanoparticles in chitosan and gelatin hydrogel and its applications**.** Materials Letters. IF (2017) 2.687, Q2.
29. Nguyen Vuong Hoang Long, Nguyen Thi Phuong Nghi, **Nguyen Thi Hiep**. The effect of oxidation degree and volume ratio of components on properties and applications of in situ cross-linking hydrogel based on Chitosan and Hyaluronic Acid. Material Science Engineering C. IF (2017) 5.08, Q1.
30. Ly, Loan Khanh; Nguyen, Truc; Nguyen, Dat; Nguyen, Nghi; Vo, Toi; Nguyen, Hoai; Tran, Quyen; **Nguyen, Hiep*.** Gelatin-stabilized composites of silver nanoparticles and curcumin: Characterization, antibacterial and antioxidant study. Science and Technology of Advanced Materials. 2019. IF=4.787 (2017). Q1
31. Tan Dat Nguyen, Thanh Truc Nguyen, Khanh Loan Ly, Anh Hien Tran, Thi Thanh Ngoc Nguyen, Minh Thuy Vo, Hieu Minh Ho, Ngoc Thao Nhi Dang, Van Toi Vo, Dai Hai Nguyen, Thi Thu Hoai Nguyen and **Thi Hiep Nguyen***. IN VIVO STUDY OF THE ANTIBACTERIAL CHITOSAN/POLYVINYL ALCOHOL LOADED WITH SILVER NANOPARTICLES HYDROGEL FOR WOUND HEALING APPLICATIONS. International Journal of Polymer Science. 2019. IF=2.197 (2017). Q3
32. Minh Nhat Ho, Long Giang Bach, **Thi Hiep Nguyen,** Minh Hieu Ho, Dai Hai Nguyen, Cuu Khoa Nguyen, Cong Hao Nguyen, Ngoc Vinh Nguyen, Thai Thanh Hoang Thi. PEGylated poly (amidoamine) dendrimers-based drug loading vehicles for delivering carboplatin in treatment of various cancerous cells. Q2

2018

33. Phong A. Tran**, Hiep T Nguyen** , Philip J. Hubbard, Hoang Phuc Dang, and Dietmar W. Hutmacher. Mineralization of plasma treated polymer surfaces from super-saturated simulated body fluids. Materials Letters. 2018. IF = 2.78. Q2.
34. Bui Quoc Bao, Ngoc Hoang Le, Diem Huong Tran Nguyen, Tuong Vi Tran, Linh Phuong Tran Pham, Long GiangBach, Hieu MinhHo, **Thi Hiep Nguyen***, Dai HaiNguyen* Evolution and present scenario of multifunctionalized mesoporous nanosilica platform: A mini review. Material Science Engineering C. 2018. IF 5.29, Q1.
35. Khon Huynh, **Thi-Hiep Nguyen**, Phuong Thao Nguyen Thi, Ngoc Quyen Tran, Van Toi Vo, Marianna Gyenes, and Volker R. Stoldt. Leu33Pro (PlA) polymorphism of integrin beta3 modulates platelet Src pY418 and FAK pY397 phosphorylation in response to abnormally high shear stress. IF: 1.08. Q3
36. Ngoc The Nguyen,**Thi Hiep Nguyen**, Minh Thanh Vu, Van Thu Le, Xuan Anh Nguyen, Tram Chau Nguyen, Thi Bich Tram Nguyen. Novel amphiphilic heparin-pluronic P123 copolymers exhibiting a great potential for Cisplatin delivery. Journal of Material Science. 2018. IF 2.89. Q2.
37. Le Hang Dang, **Thi Hiep Nguyen**, Ha Le Bao Tran , Vu Nguyen Doan , Tran Ngoc Quyen. Injectable Nanocurcumin–Formulated Chitosan-g-Pluronic Hydrogel Exhibiting a Great Potential for Burn Treatment. Journal of Healthcare Engineering. 2018. IF=1.22. Q3
38. Tran, Phong; **Nguyen, Hiep**; Fox, Kate; Tran, Nhiem. In Vitro Cytotoxicity of Iron Oxide Nanoparticles: Effects of Chitosan and Polyvinyl Alcohol as Stabilizing Agents. Materials Research Express. February 2018. IF=1.06. Q1
39. Anh Khoa Nguyen, **Thi Hiep Nguyen**, Bui Quoc Bao, Long Giang Bach, and Dai Hai Nguyen. Efficient Self-Assembly of mPEG End-Capped Porous Silica as a Redox-

Sensitive Nanocarrier for Controlled Doxorubicin Delivery. International Journal of Biomaterials. IF=2.58. January 2018

40. Nguyen Thanh Truc, Ho Hieu Minh, Ly Loan Khanh, Vo Minh Thuy, Vo Van Toi, Tran Van Man, Huynh Cong Nhat Nam, Dinh-Chuong Pham, Tran Ngoc Quyen and **Nguyen Thi Hiep*** Modification Of Type I Collagen On TiO_2 Surface Using Electrochemical Deposition. Surface Coating Technology. IF= 2.96**.** Q1.
41. Tra Thanh Nhi, Ho Hieu Minh, Tran Minh Phuong Nam, Do Bui Thuan Thien, Nguyen Thi Thu Hoai, Thai Van Phuoc, Do Minh Thai, Vo Van Toi and **Nguyen Thi Hiep***. Optimization and Characterization of Electrospun Polycaprolactone Coated with Gelatin-Silver Nanoparticles for Wound Healing Application. Material Science Engineering C. IF=5.29. **2018**
42. Luong Thu-Hien, Thanh-Truc Nguyen, Vo Van Toi, Huynh Chan Khon, Bui Chi Bao, Vo Van Thanh Niem, Mai Ngoc Tuan Anh, Nguyen Dai Hai, Pham Dinh Chuong, **Nguyen Thi Hiep***. Evaluation of the morphology and biocompatibility of natural silk fibers/ agar blend scaffolds for tissue regeneration. International Journal of Polymer Science. IF=2.197. **(2018)**
43. Dinh Chuong Pham, **Thi Hiep Nguyen**, Uyen Thi Phan Ngoc, Ngoc Thuy Trang Le,Tuong Vi Tran, and Dai Hai Nguyen. Preparation, Characterization and Antifungal Properties of Chitosan-Silver Nanoparticles Synergize Fungicide Against Pyricularia oryzae. Journal of Nanoscience and Nanotechnology. Vol. 18, 1–7. IF=1.34. **(2018)**
44. Vu Minh Thanh, **Nguyen Thi Hiep**, Tuong Vi Tran, Uyen-Thi Phan Ngoc, Minh Nhat Ho, Thi Thinh Nguyen, Yen Nguyen Tram Chau, Le Van Thu, Ngoc Quyen Tran, Cuu Khoa Nguyen, Dai Hai Nguyen. Low systemic toxicity nanocarriers fabricated from heparin-mPEG and PAMAM dendrimers for controlled drug release. Journal of Materials Science & Engineering C. 291-298. IF=5.29. **(2018).**

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