

Curriculum Vitae

Written by nguyen

Wednesday, 27 February 2008 05:00 - Last Updated Monday, 05 October 2015 18:44

Tam H. Nguyen, Ph.D.

Research Assistant Professor.

Plant Science Innovation, University of Nebraska-Lincoln

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PROFESSIONAL EXPERIENCES

Research Assistant Professor, September 2014 to present, Center for Plant Science Innovation & Department of Biochemistry, University of Nebraska-Lincoln

- Genetic modify to improve EPA and Astaxanthin for soybean and camelina
- seed storage protein, resilin protein

Research Associate, July 2009 to July 2014, Center for Plant Science Innovation & Department of Biochemistry, University of Nebraska-Lincoln

- Genetic modify to improve Camelina oil for a high quality biodiesel.
- Cocoa genomics to identify expression elements/genes for other applied plant and synthetic biology applications.
- Camelina Seed Transcriptome: A Tool for Meal and Oil Improvement and Translational Research.
- Suppression Camelina
- Over-expression omega-7 (healthy fatty acids) for soybean and Camelina.
- seed storage protein.
- Improving EPA and Astaxanthin for Camelina and soybean

Research Associate, 2004 to July 2009, Brookhaven National Laboratory (BNL)

- Manipulating properties of plant oils via genetic engineering

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- Combination of hairpin and Antisense, a new technology for suppression.
- Increase Palmitic acid as a substitute up to 53%
- Achieving high level of omega-7 fatty acid from 2% in WT to 71% in transgenic *Arabidopsi*

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seed.

Ph.D. Student 2000 to 2004, International Centre for Genetic Engineering and Biotechnology/ Jawaharlal Nehru University

- **Using bacteriophage T7 RNA polymerase directed tissue** specific over-expression of foreign genes in crop improvement
- Work on rice, tomato and tobacco tissue culture and transformation

Research Scientist, 1993 to 2000, Vietnam Academy of Science and Technology

- ·Using rice, tomato, tobacco tissue culture as material for transformation

EDUCATION

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- 2000 – 2004, **ICGEB/JNU, INDIA**

- Degree: Ph.D.

- Major: Plant Molecular Biology/Plant transformation

- Thesis: **Using bacteriophage T7 RNA polymerase directed tissue** specific over-expression of foreign genes in crop improvement

- **1994 – 1997, University of Natural Sciences, Vietnam National University**

- Degree: Master of Science

- Major: Plant Physiology

- **1989 – 1993, University of Natural Sciences, Vietnam National University,**

- Degree: Bachelor of Science

- Major: Biochemistry

BIBLIOGRAPHY

- **Huu Tam Nguyen**, Hyunwoo Park, Karen L. Koster, Rebecca E. Cahoon, Hanh TM Nguyen, John Shanklin, Thomas E. Clemente, and Edgar B. Cahoon.

Redirection of

Metabolic Flux for High Levels of Omega-7 Monounsaturated Fatty Acid Accumulation in Camelina Seeds

(

Plant Biotechnology Journal

, 04/2014).

- **Huu Tam Nguyen**, Jillian E. Collins-Silva, Ram Podicheti, Jason Macrander, Wenyu Yang, Tara J. Nazarens, Jeong-Wan Nam, Jan G. Jaworski, Chaofu Lu, Brian E. Scheffler, Keithanne Mockaitis, and Edgar B. Cahoon.

Camelina Seed Transcriptome: A Tool for Meal and Oil Improvement and Translational Research

.

Plant Biotechnology Journal

,

3 APR (2013)

- Huu Tam Nguyen, Girish Mishra, Edward Whittle, Scott A. Bevan, Ann Owens Merlo, Terence A. Walsh and John Shanklin.

[Metabolic engineering of seeds can achieve levels of Omega-7 fatty acids comparable to the highest levels found in natural plant sources](#)

.

Plant Physiology

.

Published on October 13, 2010, as DOI:10.1104/pp.110.165340

- Huu Tam Nguyen and John Shanklin. [Altering Arabidopsis Oilseed Composition by a Combined Antisense-Hairpin RNAi Gene Suppression Approach](#)

,

[Journal of the American Oil Chemists' Society](#)

,

Volume 86, 41-49 (2009)

- Mark S. Pidkowich*, Huu Tam Nguyen*, Ingo Heilmann, Till Ischebeck, and John Shanklin. [Modulating seed \$\beta\$ -ketoacyl-ACP synthase \(KAS\)II level is sufficient to convert a typical temperate crop oil to that of a palm-like tropical oil](#)

PNAS

, vol. 104, 4742-4747, 2007. (

**Mark S Pidkowich and Huu Tam Nguyen contributed equally to this work*

)

- **Huu Tam Nguyen**, S. Leelavathi and V. S. Reddy. [Bacteriophage T7 RNA polymerase directed inducible and tissue specific overexpression of foreign genes in plants](#)

,
Plant Biotechnology Journal

,
2; 301-310 (2004)

PATENTS

- **Bacteriophage T7 RNA polymerase based transcription system for overexpression of foreign proteins in plants". 2003. Indian Patent Application No. 1164/DEL/2003**

- **Combined hairpin-antisense compositions and methodes for modulating expression. Document Type and Number:WIPO Patent Application WO/2008/116094**

- Metabolic engineering approach to accumulating omega-7 fatty acid (16:1delta9 and

18:1delta11) in plant seeds (application submitted 2011)

SCIENTIFIC ACTIVITIES

- 2011 American oil Chemist's Society, Cincinnati, OH. Presentation "Achieving High Levels of Omega-7 Fatty Acids in Transgenic Plants"
- 2011 Gordon Research Conference, Galveston, Texas from Jan 31-Feb 4-2011. Poster "Developing Camelina Seed Accumulation of Omega-7 Fatty Acids for Industrial Feedstocks"
- 2010 Plant Science Retreat, Friday& Saturday, October 23, 2010, Lied Lodge and Conference Center, Nebraska City, NE. Poster "*Biotechnological Development of Camelina as a Biofuel and Biolubricant Crop*"
- National Plant Lipid Cooperative, Gordon Research Conference, Texas, USA, Feb 1-6, 2009. Poster
- National Plant Lipid Cooperative, Fallen Leaf lake, California, USA, June 5-9, 2007. Presentation
- International Symposium on Plant lipid, East Lansing, Michigan, USA, July 16-21, 2006. Presentation
- National Plant Lipid Cooperative, Fallen Leaf lake, California, USA, June 10-14, 2005. Poster
- National Symposium on Plant Biotechnology. Dalat, Vietnam , December 12 - 14, 1995.

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Presentation

- The 3rd Asia Pacific Conference on Agricultural Biotechnology, Prachuabkirikhan , Thailand , Nov. 11 – 16, 1996. Poster
 - General Meeting of The International Program on Rice Biotechnology (Rockefeller Foundation), Malacca, Malaysia, Sep. 15 – 19, 1997. Poster
 - Plant Biotechnology Workshop, Hanoi, Vietnam, October 15 – 19, 1997. Poster
 - First national Meeting of Rice Biotechnology Network, Hue, Vietnam, May 5 - 6, 1998.
- Presentation

GOAL AND AWARDS

- 4 years international fellowship at ICGEB
- 4 years scholarship at University of Natural Sciences, Vietnam National University
- 2 year scholarship at Institute of Tropical Biology, VAST
- 5 years postdoctoral fellowship at Brookhaven National Laboratory
- 5 years research Associate fellowship at University of Nebraska-Lincoln
- 6 papers and three international patents

COMPUTER SKILLS

- Expert in Microsoft office, Photoshop, and all bioinformatics software like NTI vector, MSD ChemStation and etc.
- Fluent in internet and web design, web administrator.
- Web design

ABILITIES:

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- Can carry out in-depth research to bring out new findings
- Enjoy working in a team and have so thus far in line of work. Can get along with people of all types of nature pretty well
- Expert in plant molecular biology and tissue culture all crop plants
- Expert in construction of plasmid and DNA/RNA combinations

RESEARCH AREA OF INTEREST

- Bioenergy
- RNAi
- Tissue culture
- Applied researches

I declare that the above facts given by me are true to the best of my knowledge and belief.

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REFERENCES

Dr. John Shanklin,

Senior Biochemist Biochemistry of Lipid Modification Enzymes

<http://www.biology.bnl.gov/plantbio/shanklin.html>

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