

**Contact Information**

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**PROFESSIONAL 2006~**

**Postdoctoral Researcher**, Department of Molecular Medical Pharmacology Crump Institute for Molecular Imaging David Geffen School of Medicine at UCLA (Research Advisor: Dr. Hsian-Rong Tseng)

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**Education****2001~2006**

**Ph.D. Degree**, Department of Chemistry, National Taiwan University  
Thesis: *On the Rigidity and Tacticity of polynorbornenes*.  
(Research Advisor: Dr. Tien-Yau Luh)

**1998~2001**

**M.Sc. Degree**, Department of Chemistry, National Taiwan University  
Thesis: *Rigid Rod Nonlinear Optical Polymers by Ring Opening Metathesis Polymerization reaction, Design and Synthesis*  
(Research Advisor: Dr. Tien-Yau Luh)

**1995~1998**

**B.Sc. Degree**, Department of Chemistry, National Cheng Kung University

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**Research Experience**

- Develop microfluidics-based technology platforms and to utilize these technology platforms to address important issues in the fields of molecular imaging, chemistry.
  - Synthesis of rigid-rod polynorbornenes with pendent donor-acceptor chromophores for nonlinear optical applications
  - Determination the tacticity of the polynorbornenes having endo pending groups
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**Scientific Skills and Techniques**

- Design and fabrication microfluidic device.
- Synthesis, purification and structural analysis of organic compounds by standard techniques
- Polymer synthesis by ring-opening metathesis polymerization technique and their characterization.
- Design and synthesis of Nonlinear Optical materials and polymers
- Design and synthesis of liquid crystalline materials and polymers.
- *Conventional Instrumental Analysis*: NMR, UV-vis, Fluorescence, IR, GC, HPLC, GPC, TG/DTA, DSC, Hot stage polarizing optical microscope, Atomic Force Microscopes (AFM),

Transmission Electron Microscopy (TEM), Electric Field Induced Second Harmonic Generation (EFISH), Dipole moment Measurement,

## Professional Memberships

Member of American Chemical Society (**ACS**)

## Computer Skill

- Operating systems: Windows (2000, XP), Macintosh (OS/X)
- Software: *LabView, Autocad, MicroSoft Office, Photoshop, NMR analysis program (Xwin NMR, Xwin plot).*
- Database: *SciFinder Scholar and Beilstein Crossfire.*

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## Personal

Nationality: *Taiwan*

Marital Status: *Married*

Languages: *English (Read\Write\Speak)*

*Chinese(Read\Write\Speak)*

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## Publications

1. Rational Designing of Polymers for Optoelectronic Interests.  
Luh, T.-Y.; Chen, R.-M.; Hwu, T.-Y.; Basu, S.; Shiau, C.-W.; **Lin, W.-Y.**; Jin, B.-Y.; Hsu, C. C. *Pure Appl. Chem.* **2001**, *73*, 243-246.
2. On the Rigidity of Polynorbornenes with Dipolar Pendant Groups.  
**Lin, W.-Y.**; Murugesu, M. G.; Sudhakar, S.; Yang, H.-C.; Tai, H.-C.; Chang, C.-S.; Liu, Y.-H.; Wang, Y.; Chen, I.-W. P.; Chen, C.-h.; Luh, T.-Y. *Chem. Eur. J.* **2006**, *12*, 324-330.
3. A bridging double bond as an electron acceptor for optical nonlinearity of furan-containing [n.2]cyclophenes.  
Lin, H. -C. **Lin, W. -Y.**; Bai, H. -T.; Chen, J. -H.; Jin, B. -Y.; Luh, T. -Y. *Angew Chemie Int. Ed.* **2007**, *46*, 897.
4. On the tacticity of polynorbornenes with 5,6-endo pendant groups that contain substituted aryl chromophores  
**Lin, W. -Y.**; Wang, H. -W.; Liu, Z. -C.; Xu, J.; Chen, C. -W.; Yang, Y. -C.; Huang, S. -L.; Yang, H. -C.; Luh, T. -Y. *Chem. Asia. J.* **2007**, *2*, 764-774.
5. Y-Shaped Ferrocenyl Chromophores: A Strategy to Weaken Dipole Interaction in the Chromophore Dimers.  
Tang, H.; Liu, Y.; Qin, J.; **Lin, W. -Y.**; Luh, T. -Y.; Udachin, K. A. Submitted.
6. High Radiochemical Purity of FLT Synthesized by Integrated Microfluidic Devices.  
**Lin, W. -Y.**; Chen, Y. -C.; Wang, Y.; Liu, K.; Amarasekera, B.; Liu, J.; Barrio, J. R.; Phelps, M. E.; Faull, K.; Satyamurthy, N.; Shen, C. K. -F.; Tseng, H. -R. prepared to *J. Am. Chem. Soc.* 2007.

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## Presentations at Conferences/Symposia

1. *Synthesis of norbornene derivatives with efficient pendant chromophores for second order nonlinear optics.*

Muruges, M. G., Clifton K.-F. Shen, **Wei-Yu Lin** and Tien-Yau Luh.  
*Taiwan-US Symposium on Organometallic Chemistry, Taipei, Taiwan, 1999.*

2. *Rigid Rod Nonlinear Optical Polymers by Ring Opening Metathesis Polymerization reaction, Design and Synthesis.*  
**Wei-Yu Lin**, and Tien-Yau Luh.  
*International Symposium on Organic Reactions-Tokyo (ISOR-Tokyo), Tokyo, Japan, 2000.*
3. Ring Opening Cross Metathesis of Norbornene Deravitives Leading to Dimeric Product  
**Wei-Yu Lin**, Shan-Fang Chen, and Tien-Yau Luh.  
*The 7th International Symposium for Chinese Organic Chemists (ISCOC-7), HsinChu, Taiwan 2002.*
4. Polynorbornenes from ROMP of Norbornene Derivatives having Endo Pending Groups  
**Wei-Yu Lin**, Yu-Ying Lai, and Tien-Yau Luh  
World Polymer Congress MACRO 2004 40<sup>th</sup> International Symposium on Macromolecules, Paris, France, 2004.

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