

**Perfil de Candidatos para Consejeros por Méritos y Trayectoria 2009-2011****Consulado:** Toronto**Región (IME):** Canadá**Nombre:** Gerardo Ulibarri**Edad:** 48 años**Lugar de origen:** México, DF**Género:** M**Origen:** México**Comisión de interés:** 1. CAEDU 2. Salud 3. CAECO**Ocupación Actual:** Laurentian University, Department of Chemistry and Biochemistry, Profesor de Química Medicinal y EcoSalud.**Profesión:** Posdoctorado en Química Medicinal**Años de residir en EU o Canadá:** 8 años **Ciudad y Estado de residencia:** Ontario, Canadá**Plan de Trabajo:**

N/D

En el formato de registro establece como sus prioridades:

1. Mejorar las relaciones académico-industriales entre México y Canadá.
2. Eliminar los obstáculos de comprensión, utilizando el manejo de inglés y francés como medio de comunicación y ayuda a la comunidad
3. Entender el punto de vista de diversas personalidades para negociar adecuadamente y obtener lo mejor.

**Instituciones u organizaciones a las que pertenece y actividades que desempeña a favor de la comunidad donde radica:**

Mirarco's Virtual Reality- miembro activo promoviendo el uso de súper computadoras con capacidad de visualización en 3D para uso educativo y negocios; Let's Talk Science; Voluntario en la promoción de ciencias en escuelas de preparatoria en la provincia del Ontario; Science North, Creación de exposiciones educativas dentro del Museo de Ciencias y Tecnología de la ciudad de Sudbury; Consejero para la Facultad de Ciencias e Ingeniería; Miembro del comité de apelación académica; Miembro del Equipo de internacionalización de la Univ. Laurenciana; Miembro del comité consejero del programa de Doctorado en Ciencias Biomoleculares; Administrador del Centro de Resonancia Magnética Nuclear de la Universidad Laurenciana; Ontario Council for Graduate Studies (OCGS)-consultor; Concejo Nacional de Ciencia y Tecnología (CONACYT)-Enlace con OCGS.

**Premios y reconocimientos:****Asistencia a Jornadas Informativas IME:****Observaciones:**

Ha tenido un contacto directo con la comunidad mexicana y canadiense, además de poseer un amplio conocimiento de la industria farmacéutica.

**GERARDO ULIBARRI**

## Curriculum Vitae

**Professional Experience:**

Since July 2004- Professor of Medicinal Chemistry

Laurentian University

Dept. of Chemistry and Biochemistry

Sudbury, Ontario, Canada

Feb. 2001 – June 2004 Research Associate

The University of Ottawa

and McGill University

Canada

Jan. 1994 - Oct. 2000 Chef de Laboratoire

Structure-Activity Studies in Divers Projects

(e.g. Natural Products Program (new leads discovery),

Oncology, Neurology, and Development)

Institut Henri Beaufour (Group: Beaufour-Ipsen Pharma)

Paris, France

Sept. 1991-Dec. 1993 Synthesis of Eneidyne Antitumor Agents.

Centre National de la Recherche Scientifique

Institut de Chimie des Substances Naturelles

Gif sur Yvette, France

Dr. David S. Grierson

Sept. 1983 – June. 1985 Industrial Analysis Laboratory

(Part time Analyst's job)

Universidad Autónoma de Guadalajara

Guadalajara, Jalisco, México

**Education:**

1985-1991 Ph. D. "Synthetic Studies on Marine Natural Products".

University of Alberta

Edmonton, Alberta, Canada.

Dr. Hsing-Jang Liu.

1983-1985 M. Sc. Quantitative Analysis of Superior Alcohols in Tequila

Spirits and their Effects on Commercialization.

Universidad Autónoma de Guadalajara

Guadalajara, Jalisco, México.

Dr. Tetsuya Ogura.

1982-1983 Studies on the Complexation of Alcohols with Different

Host-Molecules.

Ehime University, Matsuyama, Japan.

Dr. Fumio Toda.

1975-1981 B. Sc. Stabilization of Copper (I) salts via Complexation and

its Applications to Analytical Chemistry.

Universidad Autónoma de Guadalajara

Guadalajara, Jalisco, México.

Dr. Tetsuya Ogura.

**Diverse Academic Activities:**

Oct. 1995 School of Medicinal Chemistry

Leiden University

Leiden, The Netherlands.

Sept. 1985 – April. 1990 Teaching Assistant

Department of Chemistry

University of Alberta

Edmonton, Alberta.

Summers – 1984-1985 School of Analytical Instrumentation; Chromatography

Instructor (HPLC, GC, Chromatoflash, etc.)

Universidad Autónoma de Guadalajara  
Guadalajara, Jalisco, México.

**Other Activities:**

Sept. 1988 - Aug. 1991 Organic Chemistry Tutor for University Students  
(First, Second and Third Year)

Department of Chemistry  
University of Alberta  
Edmonton, Alberta.

Springs – 1990-1991 Chemistry Week Organizer

Department of Chemistry  
University of Alberta  
Edmonton, Alberta.

**Awards:**

Jan. 1981- May. 1983 Japan Government Mombusho Scholarship

Sept. 1985-Aug.1987 MSc, Scholarship, Univ. of Alberta.

Sept.1987- Aug-1991 PhD Scholarship, Univ. of Alberta.

Sept. 1991-Aug. 1992 PostDoctoral Grant, CNRS, Gouvernement de France

Sep.1992-Dec.1993 PostDoctoral Grant, Ligue contre le Cancer, France

**List of Publications;**

**Papers:**

23-Wining the fight against malaria- The use of Artificial Breeding Pools (ABPs) in the Guatemalan EcoHealth

Approach. J.A. Juarez, S. Chanquin, Z. Morales, R.F. Flores, E. Ramirez-Pinto, G. Ulíbarri **2008**, submitted to EcoHealth.

22-Mosquito Artificial Breeding Pools (ABP) a novel strategy for mosquito monitoring/elimination.

G. Ulíbarri,

E. Gardner, J. L. Bertrand, S. Campos, and C. M. Blanchard, **2008**, submitted to EcoHealth.

21-Use of mega-ovitraps to collect eggs from mosquitoes. An interesting observation. G. Ulíbarri, E. Gardner,

C. M. Blanchard, J. L. Bertrand, and C. Manuel, **2008**, submitted to EcoHealth.

20-The efficacy and selectivity of tumor cell killing by Akt inhibitors are substantially increased by chloroquine, C. Hu, V. R. Solomon, G. Ulibarri, H. Lee, **2008**, *Bioorganic & Medicinal Chemistry* 16, 7888–7893.

19-Synthesis and in vitro cytotoxicity evaluation of 4-aminoquinoline derivatives. H. Zhang, V. R. Solomon, C.

Hu, G. Ulibarri, H. Lee, *Biomedicine & Pharmacotherapy*, **2008**, *Biomedicine & Pharmacotherapy* 62, 65- 69.

18- Place Exchange Reactions of Alkyl Thiols on Gold Nanoparticles. Kassam, A., Bremner, G., Clark, B.,

Ulibarri, G., and Lennox, B., *J. Am. Chem. Soc.*, **2006**, 128, 3476-3477.

17- Studies Toward the Construction of the Allyltrisulfide Component in Esperamicin-A1 From 5-Ketoshikimic Acid Derivatives: Part 2 Piguél, S.; Ulibarri, G.; Grierson, D. *Tetrahedron Letters*, **1999**, 40, 295.

16- Studies Toward the Construction of the Allyltrisulfide Component in Esperamicin-A1 From 5-Ketoshikimic Acid Derivatives: Part 1. Piguél, S.; Ulibarri, G.; Grierson, D. S. *Tetrahedron Letters*, **1999**, 40, 291.

15- Homocamptothecins (hCPTs): Synthesis and Antitumor Activity of Novel E-Ring Modified Camptothecin

Analogues. Lavergne, O.; Lesueur-Guinot, L.; Pla Rodas, F.; Kasprzyk, P. G.; Pommier, J.; Demarquay,

D.; Prevost, G.; Ulibarri, G.; Rolland, A.; Schiano-Liberatore, A-M.; Harnett, J.; Pons, D.; Chabrier de Lassaunière, P-E.; Bigg, D. C. H. *The Journal of Medicinal Chemistry*, **1998**, 41 (27), 5410.

- 14- Strategies for the Synthesis of the « Enediyne » Antitumor Antibiotics Calicheamicin<sub>11</sub> / Esperamicin A1 and Mechanism Based Analogues. Ulibarri, G.; Audrain, H.; Lhermitte, H.; and Grierson, D. S.  
In « New Horizons in Organic Synthesis (IUPAC) », Pages 46-60, Ed. V. Nair and S. Kumar, New Age International, Wiley Eastern (1997).
- 13- Activation of Imidazolides Using Methyl Trifluoromethanesulfonate: A Convenient Method for the Preparation of Hindered Esters and Amides. Ulibarri, G.; Choret, N. and Bigg, D. C. H. *Synthesis*, **1996**, 1286.
- 12- Synthesis of the 'Eneidyne' Antibiotic Esperamicin-A1, and Novel Analogues for Tumor Targeting. Ulibarri, G.; Audrain, H.; Nadler, W.; Lhermitte, H. and Grierson, D. S. *Pure and Applied Chemistry*, **1996**, 68, 601.
- 11- Construction of the Bicyclic Core Structure of the Eneidyne Antibiotic Esperamicin-A1 in either Enantiomeric Form from (-)-Quinic Acid. Ulibarri, G.; Nadler, W.; Skrydstrup, T; Audrain, H.; Chiaroni, A.; Riche, C. and Grierson, D. S. *J. Org. Chem.*, **1995**, 60, 2753.
- 10- Application and Mechanistic Studies of the [2,3]-Wittig Rearrangement. An Approach to the Bicyclic Eneidyne Core Structure of Calicheamicin<sub>11</sub> / Esperamicin-A1. Audrain, H.; Skrydstrup, T; Ulibarri, G.; Riche, C.; Chiaroni, A. and Grierson, D. S. *Tetrahedron (Symposia in print)* **1994**, 50, 1469.
- 09- Total Synthesis of (±)-Isoacanthodoral. Liu, H.-J.; Ulibarri, G.; Nelson, L. A. K. *The Canadian Journal of Chemistry*, **1994**, 72, 2416.
- 08- The "Eneidyne" Antibiotics Calicheamicin<sub>11</sub>, Esperamicin-A1, and Dynemicin-A: Physicochemical and Biological Properties-Partial and Total Synthesis. Skrydstrup, T; Audrain, H.; Ulibarri, G. and Grierson, D. S. *Recent Progress in the Chemical Synthesis of Antibiotics, Vol. II.* Ed. G. Lukacs, M. Ohno, Springer-Verlag, Berlin, **1993**, 213.
- 07- Synthetic and Cycloaromatization Studies on a Calicheamicin Model: An Example of Internal Quenching of the 1,4-Diyl Intermediate. Audrain, H.; Skrydstrup, T; Ulibarri, G. and Grierson, D. S. *Synlett*, **1993**, 20.
- 06- The [2,3]-Wittig Rearrangement: Studies Towards the Synthesis of the Bicyclic Core Structure of the Eneidyne Antibiotics. Skrydstrup, T; Audrain, H.; Ulibarri, G. and Grierson, D. S. *Tetrahedron Letters*, **1992**, 33, 4563.
- 05- Diels-Alder Reactions of 2-Carbomethoxy-4,4-dimethyl-2-cyclopentene-1-one. Liu, H.-J.; Ulibarri, G.; Browne, E. N. C. *The Canadian Journal of Chemistry*, **1992**, 70, 1545.
- 04- The Total Synthesis of Racemic Isoacanthodoral. Liu, H.-J.; Ulibarri, G.; Nelson, L. A. K. *J. Chem. Soc., Chem. Commun.*, **1990**, 1419.
- 03- Characterization of Metal Complexes Formed by Interaction of Allyl Alcohol and Copper (I) in Aqueous Solution. Yanagihara, N.; Ulibarri, G.; Ogura, T.; Scott, N. and Fernando, Q. *Analytical Chemistry*, **1983**, 55, 1673.
- 02- Novel Host Molecules which form Inclusion Complexes with Alcohols. Extraction of Ethanol from its Aqueous Solution by the Complexation. Toda, F.; Tanaka, K.; Ulibarri, G.; Sanchez, M. C. *Chemistry Letters*, **1983**, 1521.

01- Allyl Alcohol as Masking Agent in Determination of Copper (I) and Copper (II) in Aqueous Mixtures.

Ulibarri, G.; Ogura, T.; Tzeng, J.-H.; Scott, N. and Fernando, Q. Analytical Chemistry, **1982**, *54*, 2307.

**Patents:**

31--Method and Apparatus for an Artificial Breeding Pool with Automatic Filtration System., CIPO application, G. Ulibarri and K. Holland. CIPO Patent Application # 2, 623,601, March 27, **2008**.

30--New derivatives of N-(iminomethyl)amines, their preparation, their use as medicaments and the

pharmaceutical compositions containing them. Bigg, D; Chabrier de Lassauniere, P-E; Auvin, S; Harnett,

J; Ulibarri, G, US 7,186,752, March 6, **2007**.

29--Analogues of camptothecin, their use as medicaments and the pharmaceutical compositions containing

them. Bigg, D; Lavergne, O; Rodas, F. P; Pommier, J; Ulibarri, G; Harnett, J; Rolland, A.; Liberatore, AM;

Lanco, C; Cazaux, J-B; Le Breton, C; Manginot, E, US 7,135,478, November 14, **2006**.

28-- Analogues of camptothecin, their use as medicaments and the pharmaceutical compositions containing

them. Bigg, D; Lavergne, O; Rodas, F. P; Pommier, J; Ulibarri, G; Harnett, J; Rolland, A.; Liberatore, AM;

Lanco, C; Cazaux, J-B; Le Breton, C; Manginot, E, US 7,053,102, May 30, **2006**.

27-- New derivatives of amidines, their preparation, their use as medicaments and the pharmaceutical

compositions containing them. Auvin; S; Chabrier de Lassauniere; P-E ; Harnett; J ; Pons; D ; Ulibarri; G,

United States Patent Application 20060084667, April 20, **2006**.

26-- Derivatives of N-(iminomethyl)amines, their preparation, their use as medicaments and the pharmaceutical

compositions containing them. Bigg, D; Chabrier de Lassauniere, P-E; Auvin, S; Harnett, J; Ulibarri, G,

United States Patent Application 20050197329, September 8, **2005**.

25- Analogues of camptothecin, their use as medicaments and the pharmaceutical compositions containing

them. Bigg; D; Lavergne; O; Pla Rodas; F; Pommier; J; Ulibarri; G; Harnett; J; Rolland; A; Liberatore; AM;

Lanco; C; Cazaux; J-B; Le Breton; C; Manginot; E, US6,815,546, November 9, **2004**.

24- Derivatives of N-(iminomethyl)amines, their preparation, their use as medicaments and the pharmaceutical

compositions containing them. Bigg; D; Chabrier de Lassauniere; P-E; Auvin; S; Harnett; J; Ulibarri; G,

US6,809,090,. October 26, **2004**

23- Analogues of camptothecin, their use as medicaments and the pharmaceutical compositions containing

them, Pla Rodas, F; Cazaux, J-B; Le Breton, C; Liberatore, A-M; Bigg, D; Harnett, J; Manginot, E; Rolland, A; Pommier, J; Ulibarri, G; Lanco, C; Lavergne, O, US 6,797,715, Sept. 28, **2004**.

.22- Analogues of camptothecin, their use as medicaments and the pharmaceutical compositions containing

them, Bigg; D; Lavergne; O; Pla Rodas; F; Pommier; J; Ulibarri; G; Harnett; J; Rolland; A; Liberatore; AM;

Lanco; C; Cazaux; J-B; Le Breton; C; Manginot; E, US 6,762,301, July 13, **2004**.

21- 2-aminopyridine derivatives, their use as medicines and pharmaceutical compositions containing them,

Chabrier de Lassauniere; P-E; Auvin; S; Harnett; J; Pons; D; Ulibarri; G; Bigg; D, US 6,762,176, July 13,

**2004.**

20- New derivatives of N-(iminomethyl)amines, their preparation, their use as medicaments and the pharmaceutical compositions containing them, Auvin; S; Bigg; D; Ulibarri; G; Chabrier de Lassauniere; P-E;

Harnett; J; US2004097494, May 20, **2004**.

19- Derivatives of 2-aminopyridines, their use as medicaments and pharmaceutical compositions containing

them, Chabrier de Lassauniere; P-E; Auvin; S; Harnett; J; Pons; D; Ulibarri; G; Bigg; D, US 6,727,239,

April 27, **2004**.

18- Cyclin-dependent kinase (cdk) and glycolene synthase kinase-3 (gsk-3) inhibitors, Ulibarri, G; Longchamp,

M-O; Thuriaeu, C; Prevost, G; Kim, S. Morgan, B; US2004048849, March, 11, **2004**.

17- Amidine derivatives, their preparation and application as medicines and pharmaceutical compositions

containing same, Auvin; S; Chabrier de Lassauniere; P-E; Harnett; J; Pons; D; Ulibarri; US 6,653,312,

November 25, **2003**

16- Tetracyclic analogues of camptothecins, their preparation processes, their use as medicaments and the pharmaceutical compositions containing them, Bigg; D; Lavergne; O;

Rolland; A; Lanco; C; Ulibarri; G, US

6,632,946, October 14, **2003**.

15- Derivatives of N-(iminomethyl)amines, their preparation, their use as medicaments and the pharmaceutical compositions containing them. Bigg; D; Chabrier de Lassauniere; P-E; Auvin; S;

Harnett; J; Ulibarri; G, US

6,620,840, September 16, **2003**.

14- New analogues of camptothecin, their use as medicaments and the pharmaceutical compositions containing

them, Ulibarri, G; Pla Rodas, F; Cazaux, J-B; Le Breton, C; Liberatore, A-M; Bigg, Dennis; Harnett, J; Manginot, E; Rolland, A; Pommier, J; Lanco, C; Lavergne, O; US 2003004150, January, 02,

**2003**.

13- N-(iminomethyl)amines derivatives, their preparation, their use as medicines and compositions containing

them. Bigg; D; Chabrier de Lassauniere; P-E; Auvin; S; Harnett; J; Ulibarri; G. US 6,482,822, November

19, **2002**.

12- New analogues of camptothecin, their use as medicaments and the pharmaceutical compositions containing

them, Pla Rodas, F; Cazaux, J-B; Le Breton, C; Liberatore, A-M; Bigg, Dennis; Harnett, J; Manginot, E;

Rolland, A; Pommier, J; Ulibarri; G; Lanco, C; Lavergne, O; US 2002160994, Octobre, 31, **2002**.

11- Camptothecin tetracyclic analogues, preparation, method, applications as medicines and pharmaceutical

compositions containing them. Bigg; D; Lavergne; O; Rolland; A; Lanco; C; Ulibarri; G. US 6,436,951,

August 20, **2002**.

10- Cyclin-dependent kinase (CDK) and glycolene synthase kinase-3 (GSK-3) inhibitors. Prevost, G. Longchamp, M-O. Kim, S. Morgan, B. Ulibarri, G. Thuriaeu, C. WO 0250079, 27 June **2002**.

09- Camptothecin analogues, preparation methods therefor, use thereof as drugs, and pharmaceutical

compositions containing said analogues. Bigg; D; Lavergne; O; Pla Rodas; F; Pommier; J; Ulibarri; G;

Harnett; J; Rolland; A; Liberatore; A-M; Lanco; C; Cazaux; J-B; Le Breton; C; Manginot; E. US 6,339,091,

January 15, **2002**.

08- Analogues of camptothecin, preparation procedures, their application as medicines and the pharmaceutical compositions comprising them. Bigg, D; Lavergne; O; Pla Rodas; F; Pommier; J; Ulibarri; G. US 6,313,135, November 6, **2001**.

07- N-(iminomethyl)amine derivatives, their preparation, their use as medicines and compositions containing them. Bigg, D; Chabrier de Lassauniere, P-E. Auvin, S. Harnett, J. Ulibarri, G. WO 00/17191, 30 March **2000**.

06- Amidine derivatives, their preparation and applications as medicines and pharmaceutical compositions containing same. Auvin, S. Chabrier de Lassauniere, P-E. Harnett, J. Pons, D. Ulibarri, G. WO 00/17190, 30 March **2000**.

05- 2-Aminopyridine derivatives, their use as medicines and pharmaceutical compositions containing them. Chabrier de Lassauniere, P-E. Auvin, S. Harnett. Pons, D. Ulibarri, G. Bigg, D. WO 00/02860, 20 January **2000**.

04- Camptothecin analogues, preparation methods therefor, use thereof as drugs, and pharmaceutical compositions containing said analogues. Bigg; D; Lavergne; O; Pla Rodas; F; Pommier; J; Ulibarri; G: US 5,981,542, . November 9, **1999**.

03- Novel camptothecin tetracyclic analogues, preparations, methods, applications as medicines and pharmaceutical compositions containing them. Bigg, D. Lavergne, O. Rolland, A. Lanco, C. Ulibarri, G. WO 99/33829, 08 July **1999**.

02- Novel counterparts of camptothecin, their application as medicine and pharmaceutical compositions containing them. Bigg, D. Lavergne, O. Pla Rodas, F. Pommier, J. Ulibarri, G. WO 98/28305, 02 July **1998**.

01- Novel camptothecin analogues, preparation methods therefor, use thereof as drugs, and pharmaceutical compositions containing said analogues. Bigg, D. Lavergne, O. Pla Rodas, F. Pommier, J. Ulibarri, G. WO 97/00876, 09 January **1997**.