



Nombres:

**BORIS ENRIQUE JOSÉ**

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Apellidos:

**WEISS LÓPEZ**

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Contacto (Opcional):

**[BWEISS@UCHILE.CL](mailto:BWEISS@UCHILE.CL)**

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Título Profesional o Grado Académico (incluya el año de obtención):

**LICENCIATURA EN CIENCIAS C/M EN QUÍMICA, UNIVERSIDAD DE CHILE  
1980.**

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Estudios de Postgrado o Especialización (institución donde lo obtuvo y año de obtención):

**PH.D. EN QUÍMICA, UNIVERSITY OF CALIFORNIA, USA, 1986.**

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Actividad Actual e Institución en la cual trabaja:

**PROFESOR TITULAR DE LA UNIVERSIDAD DE CHILE. DEPARTAMENTO  
DE QUÍMICA, FACULTAD DE CIENCIAS.**

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Reseña de su actividad laboral actual:

**Área de Investigación:** Físico-Química Molecular.

**Líneas de Investigación:** Estudio de propiedades y comportamiento de cristales líquidos liotrópicos nemáticos discoidales y moléculas huéspedes incorporadas mediante RMN y Dinámica Molecular. Estudio de procesos dinámicos intra o intermoleculares que se manifiestan como una deformación del espectro de RMN al modificar la temperatura (coalescencia), técnica conocida como Dynamic NMR (DNMR).

PUBLICACIONES:

Soto-Delgado, J., Bahamonde-Padilla, V., Araya-Maturana, R., Weiss-López, B.E.  
On the mechanism of biological activity of hydroquinone derivatives that inhibit tumor cell respiration. A theoretical study  
(2013) Computational and Theoretical Chemistry, 1013, pp. 97-101.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84876350688&partnerID=40&md5=10b0ab08271dfe591ed53a11e25c5e9f>  
DOCUMENT TYPE: Article  
SOURCE: Scopus

Bahamonde-Padilla, V.E., Martínez-Cifuentes, M., Muñoz-Masson, D., Ruiz, Á., Ahumada, H., Araya-Maturana, R., Soto-Delgado, J., Weiss-López, B.E.  
Location, orientation and dynamics of two molecules with mitochondrial activity dissolved in anionic lyomesophase. A 2H-NMR and MD study  
(2012) Journal of the Chilean Chemical Society, 57 (3), pp. 1295-1300.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-84873694907&partnerID=40&md5=cc172d2f2d99abda7fc7c171090bffd9>  
DOCUMENT TYPE: Article  
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Dobado, J.A., Gómez-Tamayo, J.C., Calvo-Flores, F.G., Martínez-García, H., Cardona, W., Weiss-López, B., Ramírez-Rodríguez, O., Pessoa-Mahana, H., Araya-Maturana, R.  
NMR assignment in regioisomeric hydroquinones  
(2011) Magnetic Resonance in Chemistry, 49 (6), pp. 358-365. Cited 1 time.  
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Aliaga, A.E., Ahumada, H., Sepúlveda, K., Gomez-Jeria, J.S., Garrido, C., Weiss-López, B.E., Campos-Vallette, M.M.  
SERS, molecular dynamics and molecular orbital studies of the MRKDV peptide on silver and membrane surfaces  
(2011) Journal of Physical Chemistry C, 115 (10), pp. 3982-3989. Cited 9 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-79953197247&partnerID=40&md5=3258301a2fb4f88c476eb6a60bb5b083>  
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Bahamonde, V., Ahumada, H., Araya-Maturana, R., Weiss-López, B.E.  
Counterion effects and dynamics of parathion in anionic lyomesophases  
(2010) Australian Journal of Chemistry, 63 (1), pp. 68-74. Cited 1 time.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-76849087650&partnerID=40&md5=3ee55687b8361659ec479cfa070c300b>  
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Vera, A., Ahumada, H., Bahamonde, V., Montecinos, R., Araya-Maturana, R., Muñoz, D., Weiss-López, B.E.  
Dynamics and orientation of parathion dissolved in a discotic nematic lyomesophase  
(2008) Australian Journal of Chemistry, 61 (12), pp. 968-974. Cited 3 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-57649230128&partnerID=40&md5=0a6a9c81d21e0f9b3bd3471c9f5d5604>  
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Araya-Maturana, R., Pessoa-Mahana, H., Weiss-López, B.  
Very long-range correlations ( $n_{JC,H} > 3$ ) in HMBC spectra  
(2008) *Natural Product Communications*, 3 (3), pp. 445-450. Cited 5 times.  
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DOCUMENT TYPE: Review  
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Araya-Maturana, R., Heredia-Moya, J., Donoso-Taudo, O., Vera, M., Hernández, J.T., Pavani, M., Pessoa-Mahana, H., Weiss-López, B., Ferreira, J.  
Effects of simple and angular chromones on tumor cell respiration  
(2008) *Natural Product Communications*, 3 (4), pp. 519-524. Cited 2 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-77954012692&partnerID=40&md5=124d2042e0a8c69e58ffd601237afa33>  
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Montecinos, R., Ahumada, H., Bahamonde-Padilla, V.E., Olea, A.F., Weiss-López, B.E.  
Counterion and composition effects on discotic nematic lyotropic liquid crystals. II. Ion exchange and molecular dynamics  
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Araya-Maturana, R., Cardona, W., Cassels, B.K., Delgado-Castro, T., Ferreira, J., Miranda, D., Pavani, M., Pessoa-Mahana, H., Soto-Delgado, J., Weiss-López, B.  
Effects of 9,10-dihydroxy-4,4-dimethyl-5,8-dihydro-1(4H)-anthracenone derivatives on tumor cell respiration  
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Ahumada, H., Montecinos, R., Tieleman, D.P., Weiss-López, B.E.  
Orientation and dynamics of benzyl alcohol and benzyl alkyl ethers dissolved in nematic lyotropic liquid crystals. <sup>2</sup>H NMR and molecular dynamics simulations (2005) *Journal of Physical Chemistry A*, 109 (30), pp. 6644-6651. Cited 6 times.  
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Araya-Maturana, R., Gavín-Sazatornil, J.A., Heredia-Moya, J., Pessoa-Mahana, H., Weiss-López, B.  
Long-range correlations ( $n_j C, H n > 3$ ) in the HMBC spectra of 3-(4-oxo-4H-chromen-3-yl)-acrylic acid ethyl esters (2005) *Journal of the Brazilian Chemical Society*, 16 (3 B), pp. 657-661. Cited 4 times.  
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Araya-Maturana, R., Heredia-Moya, J., Pessoa-Mahana, H., Weiss-López, B., Muñoz, J.C.  
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Chiral discrimination of L- and D-N-acyl-1-phenyl-D5-2- aminopropanes in a cesium N-dodecanoyl-L-threoninate cholesteric nematic lyomesophase (2005) *Journal of the Chilean Chemical Society*, 50 (1), pp. 421-425. Cited 1 time.  
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Ahumada, H., Montecinos, R., Martínez, R., Araya-Maturana, R., Weiss-López, B.  
About the difference in the quadrupole splitting of water between cationic and anionic nematic lyotropic liquid crystals. <sup>2</sup>H-NMR and molecular dynamics study (2004) *Journal of the Chilean Chemical Society*, 49 (3), pp. 209-213. Cited 1 time.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-4644318977&partnerID=40&md5=26a9086b4996ef0d4fb4c07666171076>  
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Montecinos, R., Ahumada, H., Martínez, R., Olea, F.A., Araya-Maturana, R., Aliste, M.P., Tieleman, D.P., Weiss-López, B.E.  
Structure and aggregation number of a lyotropic liquid crystal: A fluorescence quenching and molecular dynamics study (2004) *Langmuir*, 20 (14), pp. 5703-5708. Cited 9 times.  
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Bravo, H.R., Weiss-López, B., Lamborot, M., Copaja, S.V.  
Chemical basis for the antimicrobial activity of acetanilides  
(2003) Journal of the Chilean Chemical Society, 48 (4), pp. 27-30. Cited 1 time.  
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Araya-Maturana, R., Heredia-Moya, J., Pessoa-Mahana, H., Weiss-López, B.  
Improved selective reduction of 3-formylchromones using basic alumina and 2-propanol

(2003) Synthetic Communications, 33 (18), pp. 3225-3231. Cited 11 times.

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Bravo, H.R., Ernesto Clavijo, R., Weiss-Lopez, B.E.

Frontier orbitals and ir frequencies of cyclic hydroxamic acids related to antimicrobial activity

(2001) Boletín de la Sociedad Chilena de Química, 46 (3), pp. 257-260. Cited 2 times.

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Weiss-López, B.E., Azocar, M., Montecinos, R., Cassels, B.K., Araya-Maturana, R.  
Differential incorporation of L- and D-N-acyl-1-phenyl-d5-2-aminopropane in a cesium N-dodecanoyl-L-alaninate cholesteric nematic lyomesophase

(2001) Langmuir, 17 (22), pp. 6910-6914. Cited 10 times.

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Araya-Maturana, R., Delgado-Castro, T., Cardona, W., Weiss-López, B.E.

Use of long-range C-H ( $nJ_{n>3}$ ) heteronuclear multiple bond connectivity in the assignment of the  $^{13}\text{C}$  NMR spectra of complex organic molecules

(2001) Current Organic Chemistry, 5 (3), pp. 253-263. Cited 19 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0035001848&partnerID=40&md5=57688fda90111429a97a04a049146883>

DOCUMENT TYPE: Review

SOURCE: Scopus

Weiss-López, B.E., Miño, G., Araya-Maturana, R., Tracey, A.S.

Average orientation and location of benzyl alcohol-d5 and alkyl benzyl-d5 ethers in anionic nematic lyotropic liquid crystals

(2000) Langmuir, 16 (8), pp. 4040-4044. Cited 5 times.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0033741588&partnerID=40&md5=794cf5b20ebc1e40d7c9869d1d1c3afe>

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Bravo, H.R., Weiss-Lopez, B.E.

N-acylation of lactams derived from natural 2-benzoxazinones and 1,4-benzoxazin-3-ones

(1999) Boletín de la Sociedad Chilena de Química, 44 (4), pp. 443-450. Cited 2 times.

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SOURCE: Scopus

Arratia-Pérez, R., Hernández-Acevedo, L., Weiss-López, B.

Calculated paramagnetic properties of the acute GaAs<sub>2</sub> and obtuse Ga<sub>2</sub>As clusters

(1999) Journal of Chemical Physics, 110 (22), pp. 10882-10887. Cited 9 times.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-0000220640&partnerID=40&md5=0183be03658c0bc25ccc245c2d4531c8)

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SOURCE: Scopus

Squella, J.A., Sturm, J.C., Weiss-Lopez, B., Bontá, M., Núñez-Vergara, L.J.

Electrochemical study of  $\beta$ -nitrostyrene derivatives: Steric and electronic effects on their electroreduction

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Araya-Maturana, R., Cassels, B.K., Delgado-Castro, T., Valderrama, J.A., Weiss-López, B.E.

Regioselectivity in the Diels-Alder reaction of 8,8-dimethylnaphthalene-1,4,5(8H)-trione with 2,4-hexadiene-1-ol

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Weiss-López, B.E., Saldaño, D., Araya-Maturana, R., Gamboa, C.

Average orientation of benzyl-d<sub>5</sub> alkyl ethers in cationic nematic lyomesophases

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SOURCE: Scopus

Rosenbluth, H., Weiss-Lopez, B., Olea, A.F.

Thermodynamic and Kinetic Study of the Interaction between Alkylpyridinium Ions and Pyrene Derivatives in Aqueous Solution

(1997) Photochemistry and Photobiology, 66 (6), pp. 802-809. Cited 11 times.

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Clavijo, R.E., Weiss-Lopez, B., Rivera, L.

Vibrational spectra of Caulerpin, a green algae pigment

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<http://www.scopus.com/inward/record.url?eid=2-s2.0-21444460352&partnerID=40&md5=9c89491a913646dcee67ff315637a437>  
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Weiss-López, B.E., Vicencio-González, J., Gamboa, C.  
Solubilization of N-alkylpyridinium ions in anionic nematic lyomesophases  
(1996) Langmuir, 12 (18), pp. 4324-4328. Cited 10 times.  
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Weiss-Lopez, B.E., Gamboa, C., Tracey, A.S.  
Location and average alignment of alkylpyridinium ions in cationic nematic lyomesophases  
(1995) Langmuir, 11 (12), pp. 4844-4847. Cited 14 times.  
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Clavijo, R.E., Araya-Maturana, R., Cassels, B.K., Weiss-López, B.  
Infrared spectra of nitrostyrene derivatives  
(1994) Spectrochimica Acta Part A: Molecular Spectroscopy, 50 (12), pp. 2105-2115.  
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Substituent effects in frontier orbitals of cyclic hydroxamic acids  
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Weiss-Lopez, B., Nash, C.P., True, N.S.  
Conformational study of 1,2-dithiacyclononane  
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Folkendt, M.M., Weiss-Lopez, B.E., True, N.S.  
1H and 13C spin-lattice relaxation in gaseous benzene  
(1988) Journal of Physical Chemistry, 92 (17), pp. 4859-4863. Cited 3 times.  
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Weiss-Lopez, B.E., Winegar, E.D., True, N.S.  
Proton spin-lattice relaxation in gaseous furan  
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Weiss-Lopez, B.E., Goodrow, M.H., Musker, W.K., Nash, C.P.  
Conformational dependence of the disulfide stretching frequency in cyclic model compounds  
(1986) Journal of the American Chemical Society, 108 (6), pp. 1271-1274. Cited 6 times.  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0343374945&partnerID=40&md5=4a198b09a7bb4e9abbbc297eb29d948a>  
DOCUMENT TYPE: Article  
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Nash, C.P., Olmstead, M.M., Weiss-Lopez, B., Musker, W.K., Ramasubbu, N., Parthasarathy, R.  
Structures and Raman spectra of two crystalline modifications of dithiodiglycolic acid  
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<http://www.scopus.com/inward/record.url?eid=2-s2.0-0000781560&partnerID=40&md5=710c823a727fe117ca01087f91c6a2ad>  
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