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

**LICENCIADO EN QUIMICA, 1963, UNIVERSIDAD DE BUENOS AIRES,
ARGENTINA. LICENCIADO EN QUIMICA, 1967, UNIVERSIDAD DE CHILE.**

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

**DOCTOR EN CIENCIAS, UNIVERSIDAD DE BUENOS AIRES, ARGENTINA, 1966.
UNIVERSIDAD DE BONN, ALEMANIA, 1973-1974**

Actividad Actual e Institución en la cual trabaja:

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

Reseña de su actividad laboral actual:

Química Medicinal: diseño, síntesis y relaciones estructura-actividad de compuestos orgánicos, principalmente relacionados con afecciones mentales, neurodegenerativas y neoplásicas.

Química de Productos Naturales: modificación sintética de productos naturales vegetales abundantes en Chile con el fin de darles valor agregado.

PUBLICACIONES:

- García-Beltrán, O., Mena, N., Yañez, O., Caballero, J., Vargas, V., Nuñez, M.T., Cassels, B.K.
Design, synthesis and cellular dynamics studies in membranes of a new coumarin-based "turn-off" fluorescent probe selective for Fe²⁺
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- Sotomayor-Zárate, R., Gysling, K., Busto, U.E., Cassels, B.K., Tampier, L., Quintanilla, M.E.
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SOURCE: Scopus
- Castro-Castillo, V., Suárez-Rozas, C., Castro-Loiza, N., Theoduloz, C., Cassels, B.K.
Annulation of substituted anthracene-9,10-diones yields promising selectively antiproliferative compounds
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<http://www.scopus.com/inward/record.url?eid=2-s2.0-84874173525&partnerID=40&md5=802d549a2ec518f8773a49dfc06b6e74>
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- Castro-Castillo, V., Suárez-Rozas, C., Pabón, A., Pérez, E.G., Cassels, B.K., Blair, S.
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Osorio, E., Pérez, E.G., Areche, C., Ruiz, L.M., Cassels, B.K., Flórez, E., Tiznado, W. Why is quercetin a better antioxidant than taxifolin? Theoretical study of mechanisms involving activated forms

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García-Beltrán, O., Soto-Delgado, J., Iturriaga-Vásquez, P., Areche, C., Cassels, B.K. Structural reassignment of epierythratidine, an alkaloid from *Erythrina fusca*, based on NMR studies and computational methods

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Galdámez, A., García-Beltrán, O., Cassels, B.K.
Erratum: Hydrogen-bonded supramolecular array in the crystal structure of ethyl 7-hydroxy-2-oxo-2H-chromene-3-carboxylate monohydrate (*Journal of the Chilean Chemical Society* (2011) 56:1 (546-548))

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Galdámez, A., Gutiérrez-Hernández, M., Cassels, B.K., Sáez-Briones, P.
Crystal structure of (1R,5S)-9-nitro-1,2,3,4,5,6-hexahydro-1,5-methanopyrido[1,2-A][1,5]diazocin-8-One (9-Nitrocytisine), C₁₁H₁₃O₃N₃

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Rodríguez-Díaz, M., Delporte, C., Cartagena, C., Cassels, B.K., González, P., Silva, X., Leñón, F., Wessjohann, L.A.

Topical anti-inflammatory activity of quillaic acid from *Quillaja saponaria* Mol. and some derivatives

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[79954576945&partnerID=40&md5=ce51111cd13d17bbc2d8a180b4f5db62](http://www.scopus.com/inward/record.url?eid=2-s2.0-79954576945&partnerID=40&md5=ce51111cd13d17bbc2d8a180b4f5db62)

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Antinociceptive activity of *Quillaja saponaria* Mol. saponin extract, quillaic acid and derivatives in mice

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Behavioral profiles in rats distinguish among "Ecstasy," Methamphetamine and 2,5-Dimethoxy-4-Iodoamphetamine: Mixed effects for "Ecstasy" analogues

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Di Liberto, M., Svetaz, L., Furlán, R.L.E., Zacchino, S.A., Delporte, C., Novoa, M.A., Asencio, M., Cassels, B.K.

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Lühr, S., Vilches-Herrera, M., Fierro, A., Ramsay, R.R., Edmondson, D.E., Reyes-Parada, M., Cassels, B.K., Iturriaga-Vásquez, P.
2-Arylthiomorpholine derivatives as potent and selective monoamine oxidase B inhibitors
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Galdámez, A., Castro-Castillo, V., Cassels, B.K.
Crystal structure of 5,6,8,12b-tetrahydrodioxolo[4,5-g]isoindolo[1,2-a]isoquinolin-8-one (C17H13NO3)

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Zambrano, C.A., Marks, M.J., Cassels, B.K., Maccioni, R.B.
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In vivo modulation of dopaminergic nigrostriatal pathways by cytisine derivatives: Implications for Parkinson's Disease
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Zapata-Torres, G., Cassels, B.K., Parra-Mouchet, J., Mascarenhas, Y.P., Ellena, J., De Araujo, A.S.

Quantum-chemical, NMR and X-ray diffraction studies on (\pm)-1-[3,4-(methylenedioxy)phenyl]-2-methylaminopropane (2008) *Journal of Molecular Graphics and Modelling*, 26 (8), pp. 1296-1305. Cited 1 time.

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Human and rat monoamine oxidase-A are differentially inhibited by (S)-4-alkylthioamphetamine derivatives: Insights from molecular modeling studies (2007) *Bioorganic and Medicinal Chemistry*, 15 (15), pp. 5198-5206. Cited 12 times.

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