



## Vocal de la Junta Directiva de la SEBBM

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Miembro de la SEBBM como Socio Adherido desde el 21 de noviembre de 2011 (nº socio: 05869)

### Formación académica:

- Título Profesional de Música en Violín (CPM Rodolfo Halffter)
- Licenciatura en Bioquímica (UCM)
- Máster en Bioquímica, Biología Molecular y Biomedicina (UCM)
- Doctorado en Bioquímica, Biología Molecular y Biomedicina (UCM)

### Experiencia profesional:

- Colaboradora Honorífica en el Departamento de Bioquímica y Biología Molecular (UCM)
- Estancia predoctoral en la Åbo Akademi University (Turku, Finlandia)
- Estancia postdoctoral en Harvard Medical School (Boston, Massachusetts)
- Investigadora postdoctoral en el Departamento de Bioquímica y Biología Molecular (UCM)

### Publicaciones:

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- "Pore-forming-proteins from cnidaria and arachnids as potential biotechnological tools". E. Rivera-de-Torre, J. Palacios-Ortega, J.G. Gavilanes, Á. Martínez-del-Pozo, **S. García-Linares\***. *Toxins*, 2019.
  - "Sticholysin, Sphingomyelin, and Cholesterol: A Closer Look at a Tripartite Interaction". J. Palacios-Ortega, **S. García-Linares et al.** *Biophysical Journal*, 2019.
  - "One single saline bridge explains the different cytolytic activities shown by actinoporins sticholysin I and II from the venom of *Stichodactyla helianthus*". E. Rivera-de-Torre, J. Palacios-Ortega, **S. García-Linares et al.** *Archives of Biochemistry and Biophysics*, 2017.
  - "Differential effect of bilayer thickness on sticholysin's activity". J. Palacios-Ortega, **S. García-Linares et al.** *Langmuir*, 2017.
  - "Differential effect of membrane composition on the pore-forming ability of four different sea anemone actinoporins". **S. García-Linares et al.** *Biochemistry*, 2016b.
  - "Role of the tryptophan residues in the specific interaction of the sea anemone *Stichodactyla helianthus*'s actinoporin sticholysin II with biological membranes". **S. García-Linares et al.** *Biochemistry*, 2016a.
  - "Synergistic action of actinoporin isoforms from the same sea anemone species assembled into functionally active heteropores". E. Rivera-de-Torre, **S. García-Linares et al.** 2016.
  - "Regulation of sticholysin II-induced pore formation by lipid bilayer composition, phase state, and interfacial properties". J. Palacios-Ortega, **S. García-Linares et al.** *Langmuir*, 2016.
  - "Toxin-induced pore formation is hindered by intermolecular hydrogen bonding in sphingomyelin bilayers". **S. García-Linares et al.** *Biochimica et Biophysica Acta - Biomembranes*, 2016.
  - "Cholesterol stimulates, and ceramide inhibits sticholysin II-induced pore formation in complex bilayer membranes". I. Alm\*, **S. García-Linares\* et al.** *Biochimica et Biophysica Acta - Biomembranes*, 2015.
  - "The effect of cholesterol on the long-range network of interactions established among sea anemone sticholysin II residues at the water-membrane interface". **S. García-Linares et al.** *Marine Drugs*, 2015.
  - "The actinoporins (Arg-Gly-Asp) conserved motif is involved in maintaining the competent oligomerization state of this family of sea anemone toxic proteins". **S. García-Linares et al.** *FEBS Journal*, 2014.
  - "2NH and 3OH are crucial structural requirements in sphingomyelin for sticholysin II binding and pore formation in bilayer membranes". T. Maula, Y. Jenny E. Isaksson, **S. García-Linares et al.** *Biochimica et Biophysica Acta - Biomembranes*, 2013.
  - "Three-dimensional structure of the actinoporin sticholysin I. Influence of long-distance effects on protein function". **S. García-Linares et al.** *Archives of Biochemistry and Biophysics*, 2013.
  - "The behaviour of sea anemone actinoporins at the water-membrane interface". L. García-Ortega, J. Alegre-Cebollada, **S. García-Linares et al.** *Biochimica et Biophysica Acta - Biomembranes*, 2011.