



Injection of insect membrane in *Xenopus* oocyte: An original method for the pharmacological characterization of neonicotinoid insecticides

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Résumé en anglais	Insect nicotinic acetylcholine receptors (nAChRs) represent a major target of insecticides, belonging to the neonicotinoid family. However, the pharmacological profile of native nAChRs is poorly documented, mainly because of a lack of knowledge of their subunit stoichiometry, their tissue distribution and the weak access to nAChR-expressing cells. In addition, the expression of insect nAChRs in heterologous systems remains hard to achieve. Therefore, the structure-activity characterization of nAChR-targeting insecticides is made difficult. The objective of the present study was to characterize insect nAChRs by an electrophysiological approach in a heterologous system naturally devoid of these receptors to allow a molecular/cellular investigation of the mode of action of neonicotinoids.
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Liens

- [1] <http://okina.univ-angers.fr/lucespi/publications>
- [2] <http://okina.univ-angers.fr/christian.legros/publications>
- [3] <http://okina.univ-angers.fr/olivier.list/publications>
- [4] <http://okina.univ-angers.fr/h.tricoire/publications>
- [5] <http://okina.univ-angers.fr/c.mat/publications>
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=20339](http://okina.univ-angers.fr/publications?f[keyword]=20339)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=20340](http://okina.univ-angers.fr/publications?f[keyword]=20340)
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