

BIO SKETCH

NAME : Xavier NICOL

POSITION TITLE : Tenured researcher at CNRS

EDUCATION / TRAINING

| INSTITUTION AND LOCATION | DEGREE | Month/Year | FIELD OF STUDY |
|--|--------|------------|-------------------------------|
| Paris 7 University | PhD | July 2006 | Neurosciences |
| Ecole Polytechnique, Palaiseau, France | | July 2002 | Physics/Chemistry/Mathematics |

POSITIONS AND EMPLOYMENTS

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|-------------|---|
| 2012 – ... | Institut de la Vision / CNRS – Team leader, tenured position Research focus: Development of sensory maps. |
| 2010 – 2011 | Institut du Fer à Moulin – Post-doctoral fellow Research focus: Modeling activity and target-dependent developmental cell death of mouse retinal ganglion cell <i>ex vivo</i> . |
| 2006 – 2010 | University of California, San Diego – Post-doctoral fellow Research focus: Spatial and temporal second messenger codes for axonal growth cone turning. |
| 2003 – 2006 | Inserm – PhD student Research focus: Function of adenylyl cyclases in the development of retinal maps. |

Scientific Interests :

- Development of the nervous system connectivity
- Sensory systems
- Intracellular signaling
- Second messenger

Other Experiences and Professional Memberships :

- Society for Neuroscience
- Société des neurosciences
- American Society for Cell Biology
- Marie Curie Alumni Association

Selected Peer-reviewed Publications:

- **Nicol X**, Gaspar P. [Routes to cAMP: shaping neuronal connectivity with distinct adenylate cyclases.](#) Eur J Neurosci. 2014 Jun;39(11):1742-51.
- Plazas PV, **Nicol X**, Spitzer NC. [Activity-dependent competition regulates motor neuron axon pathfinding via PlexinA3.](#) Proc Natl Acad Sci U S A. 2013 Jan 22;110(4):1524-9.
- Voyatzis S, Muzerelle A, Gaspar P, **Nicol X**. [Modeling activity and target-dependent developmental cell death of mouse retinal ganglion cells ex vivo.](#) PLoS One. 2012;7(2):e31105.
- **Nicol X**, Hong KP, Spitzer NC. [Spatial and temporal second messenger codes for growth cone turning.](#) Proc Natl Acad Sci U S A. 2011 Aug 16;108(33):13776-81.
- [cAMP oscillations and retinal activity are permissive for ephrin signaling during the establishment of the retinotopic map.](#) **Nicol X**, Voyatzis S, Muzerelle A, Narboux-Nême N, Südhof TC, Miles R, Gaspar P. Nat Neurosci. 2007 Mar;10(3):340-7.
- **Nicol X**, Bennis M, Ishikawa Y, Chan GC, Repérant J, Storm DR, Gaspar P. [Role of the calcium modulated cyclases in the development of the retinal projections.](#) Eur J Neurosci. 2006 Dec;24(12):3401-14.
- **Nicol X**, Muzerelle A, Rio JP, Métin C, Gaspar P. [Requirement of adenylate cyclase 1 for the ephrin-A5-dependent retraction of exuberant retinal axons.](#) J Neurosci. 2006 Jan 18;26(3):862-72.
- **Nicol X**, Muzerelle A, Bachy I, Ravary A, Gaspar P. [Spatiotemporal localization of the calcium-stimulated adenylate cyclases, AC1 and AC8, during mouse brain development.](#) J Comp Neurol. 2005 Jun 6;486(3):281-94.