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Curriculum Vitae

PLACE OF BIRTH

Bogota, Colombia

PROFESSIONAL EXPERIENCE

- 2008-Present: Postdoctoral fellow at the Department of Experimental Ophthalmology, University Eye Hospital, Tübingen, Germany.
- 2006-2007: Research Associate at the Department of Experimental Ophthalmology, University Eye Hospital, Tübingen, Germany.
- 2005: Research Associate at the Department of Anatomy and Cellular Biology and Neuroscience, Tufts University, School of Medicine, Boston, USA.
- 2004-2005: Research Associate at the Department of Animal Physiology, Institute of Zoology, Tübingen University, Tübingen, Germany.
- 1999-2004: Research Associate at the Department of Experimental Ophthalmology, University Eye Hospital, Tübingen, Germany.
- 1998-99: Research Assistant at the Department of Experimental Ophthalmology, University Eye Hospital. Tübingen, Germany.

EDUCATION

- 1996-97: Social service as physician, Psychiatric Hospital "Clínica Nuestra Señora de la Paz", Bogotá, Colombia.
- 1995: M.D., National University of Colombia, School of Medicine, Bogotá, Colombia.
- 1995: Internship, "Hospital San Juan de Dios", Armenia, Colombia.
- 1990-04: Medical sciences, National University of Colombia, Bogotá, Colombia.

FELLOWSHIPS

Graduate College: "Cellular mechanisms of immune-associated processes" Tübingen University.

MEMBERSHIPS - PROFESSIONAL AFFILIATIONS

- German Neuroscience Society (NWG).
- Association for Research in Vision and Ophthalmology (ARVO).

METHODS

- Organotypic and dissociated cell culture of the retina
- Immunohistochemistry
- In situ hybridization
- Basic techniques in histology
- Laser scan microscopy
- Electron microscopy
- Immunoelectron microscopy
- Basic techniques in molecular biology

PUBLICATIONS

Arango-Gonzalez B, Cellerino A, Kohler K. Exogenous brain-derived neurotrophic factor (BDNF) reverts phenotypic changes in the retina of transgenic mice lacking the *bdnf* gene. *Investigative Ophthalmology and Visual Science*. *Accepted*

Sancho-Pelluz J, Arango-Gonzalez B, Kustermann S, Romero FJ, van Veen T, Zrenner E, Ekström P, Paquet-Durand F. Photoreceptor Cell Death Mechanisms in Inherited Retinal Degeneration. *Molecular Neurobiology*. *Accepted*

Witkovsky P, Arango-Gonzalez B, Haycock J, Kohler K. (2005) Rat retinal dopaminergic neurons: differential maturation of somatodendritic and axonal compartments. *Journal of Comparative Neurology* 481:352-62.

Pinzon-Duarte G, Arango-Gonzalez B, Kohler K, Guenther E. (2004) Effects of brain-derived neurotrophic factor on cell survival, differentiation and patterning of neuronal connections and Müller glia cells in the developing retina. *European Journal of Neuroscience* 19: 1475-1484.

Cellerino A¹, Arango-González B¹, Pinzon-Duarte G and Kohler K. (2003) Brain-derived neurotrophic factor regulates expression of vasoactive intestinal polypeptide in retinal amacrine cells. *Journal of Comparative Neurology* 467:97-104. [¹, co-first authors].

Pinzon-Duarte G, Kohler K, Arango-Gonzalez B and Guenther E. (2000) Cell differentiation, synaptogenesis, and influence of the retinal pigment epithelium in a rat neonatal organotypic retina culture. *Vision Research* 40:3455-3465.

Cellerino A, Arango-Gonzalez B and Kohler K. (1999) Effects of brain-derived neurotrophic factor on the development of NADPH-diaphorase/nitric oxide synthase-positive amacrine cells in the rodent retina. *European Journal of Neuroscience* 11:2824-2834.

Arango-Gonzalez B, Szabo A, Pinzon-Duarte G, Guenther E and Kohler K. *In vivo* and *in vitro* development of S- and M-cones in rat retina. *In preparation*.