

CURRICULUM VITAE Mitchell J. VALDÉS-SOSA



Personal Information :

- Name: Mitchell Joseph Valdés-Sosa.
- Nationality: Cuban
- Date of Birth: March 12, 1950
- Place of birth: Chicago, Illinois, U.S.A.
- Personal Address: Calle 208 # 1931 Reparto Atabey, Playa, Ciudad Habana, Cuba
- Personal telephone: (53)-7-271 89 62
- Personal email: mitchell@cneuro.edu.cu
- Married with a son and daughter.

Institutional Information:

- Name: Centro de Neurociencias de Cuba (Cuban Center for Neuroscience, CNEURO)
- Address: Ave. 25 y 158, #15007, Cubanacán, Playa, 11600
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Academic Training and Degrees:

- 1966-1972. M.D.. Medical School. University of Havana (UH)
- 1972-1975. First Degree Specialist in Clinical Neurophysiology Medical. School Havana University, Cuba.
- 1975-1979 PhD degree (Sensory physiology of the human auditory system) National Research Center of Cuba.
- 2002 Second Degree Specialist in Clinical Neurophysiology Medical. School Havana University, Cuba.

Academic Positions

- 1972-1975. Junior Research Fellow, National Research Center of Cuba.
- 1975-1982. Research Fellow, Neuroscience, National Research Center of Cuba
- 1982-1985. Assistant scientist, Neuropharmacology and Experimental neurophysiology, National Research Center of Cuba.
- 1985-1991. Assistant scientist, National Research Center of Cuba.
- 1991 to present: Senior scientist, Cognitive Neuroscience, Cuban Center for Neuroscience.

Scientific and teaching Responsibilities:

- 1991 to present: Director, Cuban Center for Neuroscience
- Head of the National Group for Clinical Neurophysiology of the Cuban Ministry of Public Health since 1995

- From 1992-1995 Head of Biological Basis of Psychology chair, Psychology Faculty, Havana University.
- Professor in the Residency of Clinical Neurophysiology since 1990.
- Member of Academic Committee of the Cuban PhD and Master Degree program in Neuroscience since 2003.

Other Responsibilities:

Member of the National Assembly (Parliament) of Cuba since 1993.

Basic Research Topics

- Worked on the development of signal detection methods for the analysis of auditory event-related potentials in newborns and infants.
- Worked with Event Related Potentials (ERPs) in Psychophysiology and developed methods for studying memory for faces, extending the N400 paradigm for use with non-verbal material.
- Has contributed new paradigms in studying visual attention, developing the technique known as Rapid Serial Object Transformation for the study of object-based attentional selection.
- Contributed the first clear electrophysiological evidence for object-based attentional effects in early extra-striate areas in human subjects.
- Has contributed to the understanding of covert recognition processes in prosopagnosia using event related potential recordings and functional magnetic resonance imaging.
- Is presently involved in combining ERPs, functional magnetic resonance, and diffusion tensor imaging in the study of cognitive processes.

Applied Research Topics

- Additionally Valdes-Sosa has worked on the establishment of the national network of Clinical Neurophysiology labs in Cuba, related to the following tasks:
- Organization in Havana City of the screening programme for hearing losses in infants based on electrophysiological testing.
- Organization of the Cuban Cochlear Implant programme.
- Co-directed large epidemiological studies of neuropsychiatric diseases (Dementia in Playa Municipality, Schizophrenia in Guanabacoa and Cabaiguan Municipalities, Learning Disabilities in Centro-Habana Municipality, and Autism in Havana City) as part of the Cuban Program for Research on Handicapped People from 2003 to 2005.
- Contributed to the setting up of the Cuban National Twin Registry in 2006.
- Co-directed from 2005 to 2006 the setting up of a system for the screening of and diagnosis of learning disabilities in Centro Habana Municipality and the implementation of an extensive prevalence study of children with developmental disabilities (Dyslexia, Dysgraphia, Dyscalculia and ADHD)
- Co-directed the creation of the first database of MRI scans of Cuban subjects for morphometry

Key Research Grants

- Human Frontier Science Programme Grant "Oscillatory event-related brain dynamics", awarded in 1995. The team was headed by Brigitte Rockstroh (University of Konstanz) and included Olivier Bertrand INSERM U280, Lyon), Thomas R Elbert.(Institute for Experimental Audiology, Münster), Andreas K

Kreiter (MPI for Brain Research, Frankfurt/Main), Henk Spekreijse (Ophthalmologic Research Institute, Amsterdam), Valdes-Sosa Mitchell (Cuban Center for Neuroscience, Havana)

- Human Frontier Science Programme Grant “Neural basis of nonspatial visual attention: objects, features and behaviour”, awarded in 2001. The team was headed by John DUNCAN (CBU-MRC, Cambridge) and included Leonardo Chelazzi (University of Verona), Nancy Kanwisher (MIT, Cambridge) and Mitchell Valdes-Sosa (Cuban Center for Neuroscience for, Havana)-Cuban Ministry of Health.
- Cuban ministry of Science and Technology Grant “Neurocognitive studies of learning disabilities in childhood” awarded in 2002
- British Council Science Link: Studies of Attention Disorders using Functional Brain Imaging. MRC Cognition and Brain Science Unit (CBU). Awarded 2004

Past Doctoral Students who have obtained their degrees:

- Maria Cecilia Perez (1988). Functional properties of ABR elicited by brief frequency specific stimuli (1988).
- Dra. Maria Antonieta Bobes.(1989). Face Processing Studied with Event Related Potentials.
- Maria Luisa Bringas (1991). Event Related Potentials Signs of Face and Language Processing.
- Rosario Torres ().
- Tupac Pinilla ().
- Valia Rodriguez (2003). Neural Basis of Selective Attention to Transparent Surfaces
- Migdyrai Martin (2004). Cognitive Endophenotypes in schizophrenia
- Luis Velzaquez (2004). Electrophysiological studies of SCA-2 Ataxia

Additionally Valdes-Sosa has acted as advisor for 11 theses for graduation of students from the faculties of Biology and Psychology of Havana University, 4 theses for fulfillment of requirements for Masters degree in Neuroscience and 10 theses for the culmination of the residency of Clinical Neurophysiology which are listed below:

1. Dr. Carlos Mendoza Santisteban. (1999) Potenciales evocados visuales con el equipo Neuronica 2.
2. Dra. Tania Costa (1998) Aplicación de los potenciales relacionados en el monitoreo neurológico.
3. Dr. Daniel Ramírez Rodríguez. (1997) Atención a Objetos o al espacio? Evidencias de un estudio en sujetos sanos y con daño cerebral.
4. Dra. Adnelis Reyes. (1997) Potenciales Relacionados con Efectos Semánticos en Esquizofrenia
5. Dra. Ivonne Torriente Crespo.(1995) La Atención Al Movimiento: Un Estudio Con Potenciales Evocados.
6. Dr. Reinaldo Marrero Mendoza. (1994) Potenciales Evocados Motores por estimulación Magnética. Valores normativos curvas y aplicaciones Clínicas.
7. Dra. Belinda Ramirez Hdez. (1994) Influencias de diversas fuentes de información sobre los Potenciales provocados por palabras escritas.

8. Dr. Andrés González (1988). Componentes Endógenos Relacionados con la Lectura. Dr. Mitchell Valdes Sosa Centro Nacional De Investigaciones Científicas Ciudad De La Habana Cuba.

9. Dra. Valia Rodriguez (1994). Potenciales relacionados al movimiento y retro-alimentación por cargas inesperadas.

10. Dra. Deysi Bello Alvarez. (1979). Estudio Del Reconocimiento Visual De Objetos Previamente Explorados En La Modalidad Haptica en Le Mono Verde.

Membership in Scientific Societies and Bodies:

- Member of the Cuban Society for Neuroscience since 1988, serving on the executive committee for two terms.
- Member of the Cuban Society for Biological Sciences (1979-)
- Member of the Cuban Society Physiological Sciences (1974-)
- Member of the Cuban Academy of Sciences, elected in 1995. Elected member of merit (permanent member) in 2006.
- Honorary member of the Spanish Society for Psychophysiology, 1997
- Member of the National Coordinating Group for Research on Handicapped People in Cuba since 2000
- Member of the Latinamerican society for Neuropsychology (SLAN), serving on the executive committee for one term.
- Honorary Professor at the University of Illinois at Chicago (appointed 2006)

Awards

- Twice awarded (1997 and 2001) National prize for significant research by minister of Higher Education.
- National prize of the Republic of Cuba for scientific research 'Carlos J. Finlay' awarded by the Council of State of Cuba in 1999 and 2003.

Publications

1. Bobes, M.A.; Quiñónez, I.; Perez, J.; Leon, I.; Valdés-Sosa, M. Brain Potentials reflect access to visual and emotional memories for faces. **Biological Psychology**, 2007. In the press
2. Rodriguez, V; Valdes-Sosa, M, 2006. Sensory suppression during shifts of attention between surfaces in transparent motion. **Brain Research** 1072: 110-118.
3. Lopez, M.; Rodriguez, V. and Valdes-Sosa, M. (2004) Two-object attentional interference depends on attentional set. **International Journal of Psychophysiology** 53, 127-134.
4. Bobes, M.A.; Lopera, F.; Díaz-Comas, L.; Galan, L.; Carbonell, F.; Bringas, M.L. and Valdes-Sosa, M. (2004) Brain potentials reflect residual face processing in a case of prosopagnosia. **Cognitive Neuropsychology** 21, 691-718.
5. Martin M.; Mendoza, R., Diaz, T.; Lomba, P.; Padron, F.A., and Valdes-Sosa, M. (2004) Family transmission of positive and negative symptoms in familial and sporadic schizophrenia. **Actas Españolas de Psiquiatría** 32, 353-357
6. Martín, M.; Diaz, T.; Mendoza, R.; Lomba, P.; Padrón, A.; and Valdes-Sosa, M. (2004) Estudio del espectro esquizofrénico en la esquizofrenia familiar y esporádica. **Revista CENIC: Ciencias Biológicas** 35 (3 Supl.)
7. Iglesias-Dorado, J.; Valdés-Sosa M.; and Borrego, M.; (2004) Interferencia entre dos modalidades sensoriales: un experimento de parpadeo atencional. **Revista CENIC: Ciencias Biológicas** 35.(3 Supl.)

8. Iglesias J.; Valdés-Sosa, M.; Bobes, M.A.; Rodríguez, V.; Acosta, Y.; and Pérez; A. (2004) Transiciones atencionales en dos formas de organización de una escena visual. **Revista CENIC: Ciencias Biológicas** 35 (3 Supl.).
9. Iglesias, J.; Valdés-Sosa, M.; Bobes, M.A.; Rodríguez, V. and Acosta, Y. (2004) Modulación atencional de la organización de la escena. **Revista CENIC: Ciencias Biológicas** 35.(3 Supl.)
10. Bobes, M.A.; Lopera, F.; Garcia, M.; Diaz-Comas L., Galan L., and Valdes-Sosa, M. (2003) Covert matching of unfamiliar faces in a case of prosopagnosia: An ERP study. **Cortex** 39, 41-56.
11. Perez, A.; Bobes, M.A.; Valdes-Sosa, M. and Morgade Fonte RM (2003) Trastornos atencionales en niños disléxicos. **Revista CENIC: Ciencias Biológicas** 35.(3 Supl.)
12. Rodriguez, V.; Valdes-Sosa, M. and Freiwald W. (2002) Dividing attention between form and motion during transparent surface perception. **Cognitive Brain Research** 13, 187-193.
13. Pinilla, T.; Cobo, A.; Torres, K. and Valdes-Sosa, M. (2001) Attentional shifts between surfaces: effects on detection and early brain potentials. **Vision Research** 41, 1619-1630.
14. Bobes, M.A.; Lopera, F.; Garcia, M.; Diaz-Comas, L.; Valdes-Sosa, P. and Valdes-Sosa, M. (2001) Activation of brain areas related to face processing in prosopagnosia. **NeuroImage** 13, 1027.
15. Ramirez, D.; Valdes-Sosa, M.; Torres, K.; and Bobes, M.A. (2001) Visual extinction: a study by means of potentials evoked with movement]. **Revista de Neurologia**. 33, 501-505.
16. Bobes, M.A., Martin, M.; Olivares, E. and Valdes-Sosa, M. (2000) Different scalp topography of brain potentials related to expression and identity matching of faces. **Cognitive Brain Research** 9, 249-260.
17. Olivares, E.I.; Iglesias, J.; Bobes, M.A. and Valdes-Sosa, M. (2000) Making features relevant: learning faces and event-related potentials recording using an analytic procedure. **Brain Research Protocols** 5, 1-9.
18. Valdes-Sosa M., Pinilla T., Garcia A., Pike B., and Petre V. (2000) Neural basis of attention to object tokens. **Psychophysiology** 37, S6.
19. Valdés-Sosa, M.; Cobo, A., and Pinilla, T. (2000) Attention to object files defined by transparent motion. **Journal of Experimental Psychology: Human Perception & Performance** 26, 488-505.
20. Bobes, M.A.; Valdes-Sosa, M.; Garcia, M.; Gomez, J.F. and Lopera, F. (1999) ERP signs of abnormal face processing in prosopagnosia. **Brain & Cognition** 40, 52-57.
21. Cubero, L.; Mayor J.; Almirall; P. and Valdes-Sosa, M. (1999) Memory disorders in the Cuban epidemic neuropathy. **Revista de Neurologia** 28, 343-348.
22. Torriente, I.; Valdes-Sosa, M.; Ramirez, D.; and Bobes, M.A. (1999) Visual evoked potentials related to motion-onset are modulated by attention. **Vision Research** 39, 4122-4139.
23. Valdes-Sosa, M.; Cobo, A.; and Pinilla, T.; (1998) Transparent motion and object-based attention. **Cognition** 66, B13-B23.
24. Valdes-Sosa, M.; Bobes, M.A.; Rodríguez, V. and Pinilla, T. (1998) Switching attention without shifting the spotlight object-based attentional modulation of brain potentials. **Journal of Cognitive Neuroscience** 10, 137-151.
25. Gonzalez-Garrido, A.; Oropeza; J.L.; Riestra, J.M., Perez-Abalo; M.C. and Valdes-Sosa, M. (1997) Event related brain potentials to semantically

- incongruent words in children of different ages. **Archives of Medicine Research** 28, 109-113.
26. Muller, M.M.; Bosch, J., Elbert, T.; Kreiter, A.; Valdés-Sosa, M.; Valdés-Sosa, P., Rockstroh, B. Visually induced gamma-band responses in human electroencephalographic activity--a link to animal studies. **Experimental Brain Research** 1996 Nov;112(1):96-102.
 27. Bobes, M.A.; Olivares, E.; and Valdes-Sosa, M. (1996) Effects of stimulus repetition on ERPs associated to feature mismatch during face perception. **Brain & Cognition** 30, 372-376.
 28. Bobes, M.A.; Lei, Z.X.; Ibanez, S.; Yi, H. and Valdes-Sosa; M. (1996) Semantic matching of pictures in schizophrenia: a cross-cultural ERP study. **Biological Psychiatry** 40, 189-202.
 29. Bobes, M.A.; Zhang, X.L.; Hou, Y. and Valdes-Sosa; M. (1996) Different ERP patterns for tonal and phonemic mismatch during Chinese characters matching. **Brain & Cognition** 32, 312-316.
 30. Valdes-Sosa, M.; Pineiro, A.; Lopez, B.I.; Bobes, M.A. and Torres, A. (1996) The brain potential N400 in alexia. **Brain & Cognition** 32, 176-180.
 31. Muller, M.M.; Bosch, J.; Elbert T.; Kreiter A.; Valdes-Sosa, M. and Rockstroh, B. (1995) Human visually induced gamma band responses measured by EEG. **Journal of Psychophysiology** 9, 358.
 32. Bobes, M.A.; Valdes-Sosa; M. and Olivares, E. (1994) An ERP study of expectancy violation in face perception. **Brain & Cognition** 26, 1-22.
 33. Olivares, E.; Bobes, M.A.; Aubert E., and Valdes-Sosa, M. (1994) Associative ERP effects with memories of artificial faces. **Cognitive Brain Research**. 2, 39-48.
 34. Pérez-Abalo, M.C.; Rodríguez, R.; Bobes, M.A.; Gutierrez, J. and Valdes-Sosa, M. (1994) Brain potentials and the availability of semantic and phonological codes over time. **Neuroreport** 5, 2173-2177.
 35. Valdes-Sosa, M.; Gonzalez, A.; Xiang, L.; Xiao, L.; Yi, H. and Bobes, M.A. (1993) Brain potentials in a phonological matching task using Chinese characters. **Neuropsychologia** 31, 853-864.
 36. Bobes, M.A.; Xiao-Lei, Z.; Gonzales, A.; and Valdes-Sosa, M. (1993) Brain potentials during different matching task using Chinese characters. **Cognitive Brain Research** 14, 114-115.
 37. Castellanos, M.; Bobes, M.A. and Valdes-Sosa, M. (1993) ERP negativity related to conceptually- driven processing. **International Journal of Psychophysiology** 14, 117-118.
 38. González, A.; Alvarez, A.; Morgade-Fonte, R.M.; Jiménez, J.C.; Galán L.; López I. and Valdes-Sosa, M. (1993) Comparison of EEG abnormal activities in learning disabled, behavioral disordered and normal children. **Archivos del Instituto Nacional Neurología & Neurocirugía** 8, 67-72.
 39. Olivares, E.; Aubert, E.; Valdes-Sosa, M. and Bobes, M.A. (1993) Different ERP effects related to visual and semantical incongruities during face processing. **International Journal of Psychophysiology** 14, 140.
 40. Valdes-Sosa, P.; Valdes-Sosa, M.; Carballo-Gonzalez, J.A.; Alvarez, A.; Días, G.; Biscay-Lirio, R.; Perez-Abalo, M.C.; Szava, S.; Virues-Alba, T. and Quesada, M.E. (1992) QEEG in a public health system. **Brain Topography** 4, 259-266.
 41. Bobes, M.A.; Valdés, M. and González, A. (1991) Potenciales Relacionados a Eventos Durante la Lectura Procesamiento Lingüístico en el Hemisferio Derecho? **Salud Mental** 14, 44.

42. Bobes, M.A.; Valdes-Sosa, M.; Loredó, R.; Suarez-Murias, C.; Galan-García L.; Martín V.; and Díaz-Comas, L. (1991) Potenciales Relacionados a Eventos y Tiempo de Reacción en el Estudio de las 000Etapas de la Lectura. Review **Revista CENIC: Ciencias Biológicas** 22, 83.
43. Valdes-Sosa M., Bobes M., Suarez-Murias C., and Olivares E. (1991) Incongruence negativities elicited by words and faces: Different scalp distributions. **International Journal of Psychophysiology** 11, 83.
44. Bobes M.A., Aubert-Vazquez E., Olivares E., Suarez-Murias C., and Valdes-Sosa M. (1990) Brain Potentials Reflect Priming of Component Features During Face Recognition.
45. Carballo Gonzalez J.A., Valdés S.P., and Valdés S.M. (1989) Detection of event related potentials. **International Journal of Neuroscience** 46, 109-122.
46. Bobes MA, Rodriguez R, Valdes-Sosa M, Olivares E., Suarez-Murias C, 1989. Two Strategies of Word Retrieval Produce Contrasting Event Related Potential Profiles. **International Journal of Neuroscience** 49: 231.
47. Gonzales A, Suarez-Murias C, Olivares E., Bobes MA, Valdes-Sosa M, 1989. Top-Dow Processing is Associated with N360 Over the Right Hemisphere **International Journal of Neuroscience** 49: 223.
48. Suarez-Murias C, Rodriguez R, Pascual-Marqui R, Valdes-Sosa M, Olivares E., Bobes M.A., 1989. Event Related Potentials During Reading Words, Pseudo Word and Producing Semantic Associates. **International Journal of Neuroscience** 49: 224
49. Perez-Abalo MC, Valdes-Sosa M., Bobes M.A., Galan-García L., and Biscay-Lirio R. (1988) Different functional properties of on and off components in auditory brainstem responses to tone bursts. **Audiology** 27, 249-259.
50. Bobes M.A., Valdes-Sosa M., Perez-Abalo MC, and Perera M. (1988) Efecto de Diferentes Métodos de Extracción de los Potenciales Evocados Auditivos de Tallo Cerebral Sobre la Relación Señal Ruido. Rev. Biología 2, 11.
51. Díaz-Coma L., Martín V., Valdes-Sosa M., and Bobes M.A. (1988) Sistema de Psicofisiología para Estudios de Procesos Cognitivos Utilizando Potenciales Evocados en el MEDICID-3M. Rev. **Revista CENIC: Ciencias Biológicas** 19, 5.
52. Perez-Abalo MC, Ponce De leon M., and Valdes-Sosa M. (1988) Sistema de Pesquisaje Temprano de Defectos Auditivos con Potenciales Provocados en la Ciudad de la Habana Reseña de los Resultados Principales. **Revista Cubana de Ciencias Biomédicas** 7, 60-74.
53. Perez M., Sanchez M., Valdes-Sosa M., Bobes M.A., and Perera M. (1988) Screening of Hearing Deficits in Havana City. **Revista Cubana de Investigaciones Biomédicas** 7, 60.
54. Valdés Sosa M.J., Bobes M.A., Pérez Abalo M.C., Perera M., Carballo-Gonzalez J.A., and Valdés-Sosa P. (1987) Comparison of auditory-evoked potential detection methods using signal detection theory. **Audiology** 26, 166-178.
55. Carballo, J.A.; Valdes, P.; Valdes M.; Bobes M.A.: Metodos de maxima potencia para la deteccion estadistica de potenciales evocados en el dominio de la frecuencia. Estudios Avanzados Neurociencias. **Revista CENIC: Ciencias Biológicas** 71-81, 1987.
56. Perez-Abalo MC, Perera M., Bobes M.A., Valdes-Sosa M., and Sanchez M. (1986) Caracterización de los Potenciales Evocados Auditivos de Tallo

- Cerebral en Lactantes Cubanos. **Revista Cubana de Investigaciones Biomedicas** 5, 419-429.
57. Perez M., Valdes-Sosa M., and Fernandez L. (1983) Visual Masking in a Memory Comparison Task. **Revista del Hospital Psiquiátrico de la Habana** 24, 223.
 58. Rodríguez C., Estrada A., Bello A., Suarez-Murias C., Virues-Alba T., and Valdes-Sosa M. (1982) Reconocimiento Visual de Formas Conocidas Mediante la Modalidad Sensorial Haptica en el Mno Verde. **Revista del Hospital Psiquiátrico de la Habana** 23, 519.
 59. Perez M. and Valdes-Sosa M. (1981) Response and Stimulus Sequence Effects on P300 Amplitude. **Human Physiology** 7, 729.
 60. Rodríguez C. and Valdes-Sosa M. (1981) Haptic to visual cross-modal recognition of objects in the vervet monkey. **Acta Neurobiologica Experimentalis** 41, 113-118.
 61. Holmgren B., Urbá H.R., and Valdés M. (1976) Relative role of catecholamines in head-shaking of infant rats. **Pharmacology Biochemistry and Behaviour** 5, 29-34.
 62. Holmgren B., Urbá H.R., and Valdes-Sosa M. (1976) Spontaneous and amphetamine induced head-shaking in infant rats. **Pharmacology Biochemistry and Behaviour**, 1976 Jul, 5:1, 23-8 5, 23-28.

Book Chapters:

1. Valdes-Sosa M., Bobes M.A., Rodriguez V., Acosta Y, Perez A., Iglesias-Dorado J., and Borrego M (2005) The influence of scene organization on attention: Psychophysics and electrophysiology. *Attention & Performance* (ed. Kanwisher, N & Duncan, J).
2. Ibañes S., Bobes M.A., Xiao-Lei Z., Hou Y., and Valdes-Sosa M. (1997) PRE durante un estudio transcultural de las funciones cognitivas en la esquizofrenia., pp. 1-13. Editorial Cangrejal, Buenos Aires.
3. Valdes-Sosa M. and Bobes M.A. (1990) Making Sense of Words and Faces. ERP Evidence for Multiple Memory Systems. *Machinery of the Mind*, Editor E. R. John, 1990, Birkhäuser Boston, Inc.
4. Valdes-Sosa, M.; Bosch-Bayard J.; Sierra, C.E.; Echeverria, M.; Valdes-Sosa P.; Perez L. and Bobes, M.A. (1993) Attentional Effects on Motion Related Potentials and Motion Related Spectral Perturbations. *Oscillatory Brain Dynamics* (ed. Elbert, T). NATO conference series.
5. Selecting Box-Cox transformations for neurometric data". In: *Estudios Avanzados en Neurociencias*, M. Valdes and A. Alvarez (Eds.), Editorial CENIC, 134-141, 1987.
6. A parametric model for the analysis of evoked responses to multiple events". In: *Estudios Avanzados en Neurociencias*, M. Valdes and A. Alvarez (Eds.), Editorial CENIC, 98-109, 1987. (in Spanish).
7. Neuronica: A data acquisition and analysis system for bioelectric signals". In: *Estudios Avanzados en Neurociencias*, M. Valdes and A. Alvarez (Eds.), Editorial CENIC, 71-80, 1987. (in Spanish) .
8. Chapter on Object-Based attention in the *Handbook of the Senses*. Elsevier. In press.

Presentations at Scientific meetings

Valdes-Sosa has participated with more than 110 presentations or posters at national and international scientific meetings, including the Attention and Performance symposia, International Cognitive Neuroscience (ICON) meetings, and the Congress of the International Brain Research Organization (IBRO) among others.

Reviews for scientific journals

Valdes-Sosa has acted as reviewer for several journals including the Journal for Cognitive Neuroscience, Perception and Psychophysics, Neuropsychologia and Vision Research.