

CV Jan Pieter Konsman

Current position

Senior Research Scientist
CNRS UMR 5164 ImmunoConcept
Site de Carreire, Zone Nord
146 Rue Léo Saignat
33076 Bordeaux Cedex, France
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Previous appointments

1999-2001 Post-doctoral fellow, department of Cell Biology, University of Linköping, Sweden
2002-2006 Junior Research Scientist, laboratory of Integrative Neurobiology, CNRS FRE 2723-INRA UR 1244, Segalen University of Bordeaux, France
2007-2010 Senior Research Scientist, laboratory of PsychoNeuroImmunology, CNRS UMR 5226-INRA UR 1286, Segalen University of Bordeaux, France
2011-2015 Senior Research Scientist, laboratory of Magnetic Resonance of Biological Systems, CNRS UMR 5536, Segalen University of Bordeaux, France
2016-2021 Senior Research Scientist, Aquitaine Institute for Cognitive and Integrative Neuroscience, CNRS UMR 5287, University of Bordeaux, France

Education

1990 Propaedeutica in Philosophy, University of Groningen, the Netherlands
1995 Master in Neurobiology, University of Groningen, the Netherlands
2000 PhD Thesis on Immune-to-Brain Communication, *cum laude*, University of Groningen, Netherlands and Segalen University of Bordeaux, France
2010 Master in History and Philosophy of Science, University of Bordeaux, France

Teaching experience

Lecturer, Master's program: Complex systems: natural and artificial Cognition,
Ecole des Pratiques et Hautes Etudes 2011-2019

- Small animal neuroimaging

Lecturer, University Diploma in Neurointensive Care, Sorbonne University 2010-present

- Neuroimmunology, barriers and signals

Lecturer, Bachelor's program: Physiological and psychosocial basis of human eating behavior,
AgroParisTech 2009-2017

- Gut-brain axis
- Stress and Anorexia

Lecturer, Master's program: Human nutrition, Bordeaux University 2007-2010

- Gut-brain axis
- Anorexia

Lecturer, Master's program: Neuroscience, Bordeaux University	2011-present
<ul style="list-style-type: none"> • Horizontal and vertical interdisciplinarity • History of Neuroscience 	
Lecturer, Bachelor's program: Introduction to experimental neuroscience, AgroParisTech	2009-2017
<ul style="list-style-type: none"> • History and Philosophy of Neuroscience 	
Teaching assistant: Science and society, Faculty of Mathematics and Natural Sciences, University of Groningen	1995
<ul style="list-style-type: none"> • Discussion sections 	

University services

Committee member, presentation of research projects by Master's students	
<ul style="list-style-type: none"> • Neuroscience, Bordeaux University • Human Nutrition, Bordeaux University 	2009-present 2005-2009
Committee member, PhD defense	
<ul style="list-style-type: none"> • External examiner (incl. 4 foreign students) 	2012-present

Research interests and expertise

- Neuroimmune interactions
- Sickness behavior and depression
- Regulation of food intake and energy expenditure
- Septic encephalopathy and autoimmune encephalitis
- History and philosophy of life sciences

Regular reviewing and editorial activities

- Brain, behavior and immunity
- Frontiers in neuroanatomy
- Journal of neuroimmune pharmacology
- Neuroimmunomodulation
- Masterclass in neuroendocrinology: co-editor Neuroendocrine-immune system interactions
- Pharmaceuticals: editor Cerebral production and action of pro-inflammatory cytokines

Organization of scientific events

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|---|------------|
| • Workshop: The mind-body problem in philosophy, medicine and biology | 2019 |
| • Symposia at PsychoNeuroImmunogy Research Society meetings | 2003, 2007 |

Student supervision

- >20 Master students
- 3 PhD students

Publications in science

ARTICLES

1. KONSMAN J.P., LAAKER C., LOYD K.R., HILTZ A., SMITH B.L., SMALL M.A. and REYES, T.M.-

Translationally relevant mouse model of early life cancer and chemotherapy exposure results in brain and small intestine cytokine responses: A potential link to cognitive deficits.

Brain Behavior and Immunity, Vol. 99, (2022) pp. 192-202.

2. CHASKIEL L., DANTZER R. and KONSMAN J.P.-

Brain perivascular macrophages do not mediate interleukin-1-Induced sickness behavior in rats.

Pharmaceuticals (Basel), Vol. 14, N°10, (2021) p. e1030

3. DHAYA I., GRITON M. and KONSMAN J.P.-

Magnetic resonance imaging under isoflurane anesthesia alters cortical cyclooxygenase-2 expression and glial cell morphology during sepsis-associated neurological dysfunction in rats.

Animal Models and Experimental Medicine, Vol. 4, (2021), pp. 249-260.

4. KONSMAN J.P.-

So many faces, phases and facets, sickness behavior beyond disciplines.

Frontiers in Psychiatry, Vol. 12, (2021), 630331

5. LASSELLIN J., SCHEDLOWSKI M., KARSHIKOFF B., ENGLER H., LEKANDER M., and KONSMAN J.P.-

Comparison of bacterial lipopolysaccharide-Induced sickness behavior in rodents and humans: relevance for symptoms of anxiety and depression.

Neuroscience and Biobehavioral Reviews, Vol. 115, (2020) pp. 15-24.

6. KONSMAN J.P. and REYES T.M.-

The lost cause of not being mechanistic enough? A perspective inspired by philosophy of science.

Brain Behavior and Immunity, Vol. 84, (2020) pp. 1-3.

7. GRITON M., DHAYA I., NICOLAS R., RAFFARD, G., PERIOT O., HIBA, B. and KONSMAN J.P.-

Experimental sepsis-associated encephalopathy is accompanied by altered cerebral blood perfusion and water diffusion and related to changes in cyclooxygenase-2 expression and glial cell morphology but not to blood-brain barrier breakdown.

Brain Behavior and Immunity, Vol. 83, (2020) pp. 200-213.

8. CHASKIEL L., BRISTOW A.D., BLUTHE R.M., DANTZER R., BLOMQUIST A, and KONSMAN J.P.-

Interleukin-1 reduces food intake and body weight in rat by acting in the arcuate hypothalamus.

Brain Behavior and Immunity, Vol. 81, (2019) pp. 560-573.

9. KONSMAN J.P.-

Inflammation and depression: a nervous plea for psychiatry to not become immune to interpretation.

Pharmaceuticals (Basel), Vol. 12, N°1, (2019) p: e29.

10. GRITON M. and KONSMAN J.P.-

Neural pathways involved in infection-induced inflammation: recent insights and clinical implications.

Clinical Autonomic Research, Vol. 28, N°3, (2018) pp. 289-299.

- 11. DHAYA I., GRITON M., RAFFARD, G., AMRI M., HIBA, B. and KONSMAN J.P.-
Bacterial lipopolysaccharide-induced systemic inflammation alters perfusion of white matter-rich regions without altering flow in brain-irrigating arteries: Relationship to blood-brain barrier breakdown?
Journal of Neuroimmunology, Vol. 314, (2018) pp. 67-80.**
- 12. RODRIGUEZ-GRANDE B. and KONSMAN J.P.-
Gas diffusion in the CNS.
Journal of Neuroscience Research, Vol. 96, N° 2, (2018) pp. 207-218.**
- 13. ICHKOVA A., RODRIGUEZ-GRANDE D, BAR C., VILLEGA F., KONSMAN J.P., and BADAUT J.-
Vascular impairment as a pathological mechanism underlying long-lasting cognitive dysfunction after pediatric traumatic brain injury.
Neurochemistry International, Vol. 111, (2017) pp. 93-102.**
- 14. VILLEGA F., DELPECH J.C., GRITON M., ANDRE C., FRANCONI J.M., MIRAUX S. and KONSMAN J.P.-
Circulating bacterial lipopolysaccharide-induced inflammation reduces flow in brain-irrigating arteries independently from cerebrovascular prostaglandin production.
Neuroscience, Vol. 346, (2017) pp. 160-172.**
- 15. KONSMAN J.P. -
Immune-to-brain signaling and substrates of altered behavior during inflammation.
Neuroimmunology and Neuroinflammation, Vol. 3, (2016) pp. 207-214.**
- 16. CHASKIEL L., PAUL F., GERSTBERGER R., HUEBSCHLE and KONSMAN J.P.-
Brainstem metabotropic glutamate receptors reduce food intake and activate dorsal pontine and medullar structures after peripheral bacterial lipopolysaccharide administration.
Neuropharmacology, Vol. 107, (2016) pp. 146-159.**
- 17. FORTIN P.Y., LEPETIT-COIFFE M., GENEVOIS C., QUESSON B., MOONEN C.T.W., KONSMAN J.P. and COUILLAUD F.-
Spatiotemporal control of gene expression in bone-marrow derived cells of the tumor microenvironment induced by MRI guided focused ultrasound.
Oncotarget, Vol. 6, N° 27, (2015) pp. 23417-26.**
- 18. POURTAU L., HEERINGA A.N., ROVERE C., AUBERT A., NAHON J.L., MIRAUX S. and KONSMAN J.P.-
Increased circulating rather than spinal cytokines accompany chronic pain behaviors in experimental bone cancer and arthritis.
Neuroimmunology and Neuroinflammation, Vol. 1, N° 3, (2014) pp. 153-160.**
- 19. VAN HEESCH F., PRINS J., KONSMAN J.P., KORTE-BOUWS G.A., WESTPHAL K.G., RYBKA J., OLIVIER B., KRANEVELD A.D. and KORTE S.M.-
Lipopolysaccharide increases degradation of central monoamines: An in vivo microdialysis study in the nucleus accumbens and medial prefrontal cortex of mice.
European Journal of Pharmacology, Vol. 725, (2014) pp. 55-63.**

- 20.** NASSRA M., KRISA S., PAPASTAMOULIS Y., KAPCHE G.D., BISSON J., ANDRE C., KONSMAN J.P., SCHMITTER J.M., MERILLON J.M. and WAFFO-TEGUO P.-
Inhibitory activity of plant stilbenoids against nitric oxide production by lipopolysaccharide-activated microglia.
Planta Medica, Vol. 79, N° 11 (2013) pp. 966-970.
- 21.** DUCLOS M., OUERDANI A., MORMEDE P. and KONSMAN J.P.-
Food restriction-induced hyperactivity: Addiction or adaptation to famine?
Psychoneuroendocrinology, Vol. 38, N° 6 (2013) pp. 884-897.
- 22.** VAN HEESCH F., PRINS J., KONSMAN J.P., WESTPHAL K.G., OLIVIER, B., KRANEVELD A.D., and KORTE S.M.-
Lipopolysaccharide-induced anhedonia is abolished in male serotonin transporter knockout rats: an intracranial self-stimulation study.
Brain Behavior and Immunity, Vol. 29 (2013) pp. 98-103.
- 23.** GURFEIN B.T., STAMM A.W., BACCHETTI P., DALLMAN M.F., NADKARNI N.A., MILUSH J.M., TOUMA C., PALME R., DI BORGO C.P., FROMENTIN G., LOWN-HECHT R., KONSMAN J.P., ACREE M., PREMENKO-LANIER M., DARCEL N., HECHT F.M. and NIXON D.F.-
The calm mouse: an animal model of stress reduction.
Molecular Medicine, Vol. 18, N°1 (2012) pp. 606-617.
- 24.** RIBOT E.J., MIRAUX S., KONSMAN J.P., BOUCHAUD V., POURTAU L., DELVILLE M.H., FRANCONI J.M., THIAUDIERE E. and VOISON P.J.-
In vivo MR tracking of therapeutic microglia to a human glioma model.
NMR in Biomedicine, Vol. 24, N°10 (2011) pp. 1361-1368.
- 25.** POURTAU L., LEEMBURG S., ROUX P., LESTE-LASSERE T., COSTAGLIOLI P., GARBET B., DRUTEL G. and KONSMAN, J.P.-
Hormonal, hypothalamic and striatal responses to reduced body weight gain are attenuated in anorectic rats bearing small tumors.
Brain Behavior and Immunity, Vol. 25, N°4 (2011) pp. 777-786.
- 26.** NADJAR A., SAUVANT J., COMBE C., PARNET P. and KONSMAN J.P.-
Brain cyclooxygenase-2 mediates interleukin-1-induced cellular activation in preoptic and arcuate hypothalamus, but not sickness symptoms.
Neurobiology of Disease, Vol. 39, N° 3 (2010) pp. 393-401.
- 27.** BRISSAUD O., VILLEGA F., KONSMAN J.P., SANCHEZ S., RAFFARD G., FRANCONI J.M., CHATEIL J.F. and BOUZIER-SORE A.K.-
Short term effect of erythropoietin on brain lesions and aquaporin-4 expression in a hypoxic-ischemic neonatal rat model assessed by MR-diffusion weighted imaging and immunohistochemistry.
Pediatric Research, Vol. 68, N°2 (2010) pp. 123-127.
- 28.** RICHARD E., HEBLING J.C., TRIDON C., MINNI A.M., DESMEDT A., CADOR M., POURTAU L., KONSMAN J.P., MORMEDE P. and MOISAN M.P.-
Plasma transcortin influences endocrine and behavioural stress responses in mice.
Endocrinology, Vol. 151, N°2 (2010) pp. 649-659.

- 29. SEIGERS R., POURTAU L., SCHAGEN S.B., VAN DAM F.S.A.M., KOOLHAAS J.M., KONSMAN J.P. and BUWALDA B.-**
Inhibition of hippocampal cell proliferation by methotrexate in rats is not potentiated by the presence of a tumor.
Brain Research Bulletin, Vol. 81, (2010) pp. 472-476.
- 30. KONSMAN J.P., VEENEMAN J., COMBE C., LUHESHI G.N. and DANTZER R.-**
Central nervous action of interleukin-1 mediates activation of limbic structures and behavioral depression in response to peripheral administration of bacterial lipopolysaccharide.
European Journal of Neuroscience, Vol. 28, (2008) pp. 2499-2510.
- 31. ENGSTROM L., ROSEN K., ANGEL A., FYRBERG, A. KONSMAN J.P., ENGBLOM D., and BLOMQUIST A.-**
Systemic immune challenge activates an intrinsically regulated local inflammatory circuit in the adrenal gland.
Endocrinology, Vol. 149, N°4 (2008) pp. 1436-1450.
- 32. KONSMAN J.P., DRUKARCH B. and VAN DAM A.M.-**
(Peri)vascular production and action of proinflammatory cytokines in brain pathology.
Clinical Science, Vol. 112, N° 1 (2007) pp. 11-25.
- 33. KONSMAN J.P.-**
Excitement over the chemistry of immune-nervous system relationships.
Brain Behavior and Immunity, Vol. 20, (2006) pp. 231-232.
- 34. ROMANOVSKY A.A., ALMEIDA M.C., ARONOFF D.M., IVANOV A.I., KONSMAN J.P., STEINER A.A. and TUREK V.F.-**
Fever and hypothermia in systemic inflammation: Recent Discoveries and Revisions.
Frontiers in Bioscience, Vol. 10, (2005) pp. 2193-2216.
- 35. KONSMAN J.P. and BLOMQUIST A.-**
Forebrain patterns of c-Fos and FosB induction during cancer-associated anorexia-cachexia in rat.
European Journal of Neuroscience, Vol. 21, (2005) pp. 2752-2766.
- 36. KONSMAN J.P., VIGUES S., MACKERLOVA L., BRISTOW A.F. and BLOMQUIST A.-**
Rat brain vascular distribution of interleukin-1 type-1 receptor immunoreactivity: Relationship to patterns of inducible cyclooxygenase expression by peripheral inflammatory stimuli.
Journal of Comparative Neurology, Vol. 472, N° 1 (2004) pp. 113-129.
- 37. CASTANON C., KONSMAN J.P., MEDINA C., CHAUVET N. and DANTZER R.-**
Chronic treatment with the antidepressant tianeptine attenuates lipopolysaccharide-induced Fos expression in the rat paraventricular nucleus and HPA axis activation.
Psychoneuroendocrinology, Vol. 28, (2003) pp. 19-34.
- 38. CUNNINGHAM C., KONSMAN J.P. and CARTMELL T.-**
Cytokines and the ageing brain.
Trends in Neurosciences, Vol. 25, N° 11 (2002) pp. 546-547.
- 39. KONSMAN J.P., PARNET P. and DANTZER R.-**
Cytokine-induced sickness behaviour: Mechanisms and implications.
Trends in Neurosciences, Vol. 25, N° 3 (2002) pp. 154-159.

- 40.** ADAGE T., SCHEURINK A.J.W., DE BOER S.F., DE VRIES K., KONSMAN J.P., KUIPERS F., ADAN R.A.H., BASKIN D.G., SCHWARTZ M.W. and VAN DIJK G.-
Hypothalamic, metabolic and behavioral responses to pharmacological inhibition of CNS melanocortin signaling in rats.
Journal of Neuroscience, Vol. 21, N° 10 (2001) pp. 3639-3645.
- 41.** KONSMAN J.P. and DANTZER R.-
How the immune system and nervous systems interact during disease-associated anorexia.
Nutrition, Vol. 17, N° 7-8 (2001) pp. 664-668.
- 42.** KONSMAN J.P., LUHESHI G.N., BLUTHE R.M. and DANTZER R.-
The vagus nerve mediates behavioral depression, but not fever, in response to peripheral immune signals; a functional anatomical analysis.
European Journal of Neuroscience, Vol. 12, N° 12 (2000) pp. 4434-4446.
- 43.** LUHESHI G., BLUTHÉ R.M., RUSHFORTH D., MULCAHY H., KONSMAN J.P., GOLDBACH M. and DANTZER R.-
Vagotomy attenuates the behavioral but not pyrogenic effects of interleukin-1 in rats.
Autonomic Neuroscience, Vol. 85, (2000) pp. 119-126.
- 44.** DANTZER R., KONSMAN J.P., BLUTHÉ R.M. and KELLEY K.W.-
Neural and humoral pathways of communication from the immune system to the brain: parallel or convergent?
Autonomic Neuroscience, Vol. 85, (2000) pp. 60-65.
- 45.** VITKOVIC L., KONSMAN J.P., BOCKAERT J., DANTZER R., HOMBURGER V. and JACQUE C.-
Cytokine signals propagate through the brain.
Molecular Psychiatry, Vol. 5, N° 6 (2000) pp. 604-615.
- 46.** KONSMAN J.P., BLOND D. and VIGUES S.-
Neurobiology of interleukin-1 receptors: Getting the message.
European Cytokine Network, Vol. 11, N° 4 (2000) pp. 699-702.
- 47.** KONSMAN J.P., TRIDON V. and DANTZER R.-
Diffusion and action of intracerebroventricularly injected interleukin-1 in the central nervous system.
Neuroscience, Vol. 101, N° 4 (2000) pp. 957-967.
- 48.** DANTZER R., AUBERT A., BLUTHE R.M., GHEUSI G., CREMONA S., LAYE S., KONSMAN J.P., PARNET P., and KELLEY K.W.-
Mechanisms of the behavioural effects of cytokines.
Advances in Experimental and Medical Biology, Vol. 461, (1999) pp. 83-105.
- 49.** KONSMAN J.P., KELLEY K.W. and DANTZER R.-
Temporal and spatial relationships between lipopolysaccharide induced expression of Fos, interleukin-1 β and inducible NO synthase in rat brain.
Neuroscience, Vol. 89, N° 2 (1999) pp. 535-548.
- 50.** WIERSMA A., KONSMAN J.P., KNOLLEMA S., BOHUS B. and KOOLHAAS J.M.-
Differential effects of CRH infusion into the central nucleus of the amygdala in the Roman high-avoidance and low-avoidance rats.
Psychoneuroendocrinology, Vol. 23, N° 3 (1998) pp. 261-274.

51. WIERSMA A., KNOLLEMA S., KONSMAN J.P., BOHUS B. and KOOLHAAS J.M.-
Corticotropin-releasing hormone modulation of a conditioned stress response in the central amygdala of Roman high (RHA/Verh)-avoidance and low (RLA/Verh)-avoidance rats.
Behavior and Genetics, Vol. 27, N° 6 (1997) pp. 547-555.

52. KONSMAN J.P. and CARTMELL T.-
Neural pathways from the immune system to the brain.
European Cytokine Network, Vol. 8, N° 2 (1997) pp. 221-223.

CHAPTERS

53. KONSMAN J.P.-
The role of the central nervous system in the reduction of food intake during infectious and neoplastic disease and in eating disorders: experimental approaches.
In *Handbook of Famine, Starvation, and Nutrient Deprivation*, Cham, (2019), Springer International Publishing, Eds.: Preddy V. and Patel V.B., pp. 2029-2043.

54. RODRIGUEZ-GRANDE B., KONSMAN J.P. and BADAUT J.-
Role of aquaporins in the formation and resolution of brain edema.
In *Brain Edema: From Molecular Mechanisms to Clinical Practice*, London, (2017), Academic Press, Eds.: Badaut J. and Plesnila N., pp. 164-183.

55. GRITON M. and KONSMAN J.P.-
Neuroimmunomodulation in sepsis.
In *Brain Dysfunction in Critical Illness*, Amsterdam, (2013), Cambridge University Press, Eds.: Stevens R. et al., pp. 208-217.

56. CHASKIEL L. and KONSMAN J.P.-
Interleukin-1 expression and action in the central nervous system in the absence of neuropathology.
In *Neuroimmune Biology Vol. 6*, Amsterdam, (2008), Elsevier, Eds.: Korneva E. and Phelps C., pp. 55-77.

57. DANTZER R., KONSMAN J.P. and PARNET P.-
Mechanisms of cytokine-induced sickness behavior.
In *Neuroimmunoendocrinology*, New York, (2004), Marcel Dekker, Ed.: Geenen V., pp. 707-720.

58. KONSMAN J.P. and DANTZER R.-
Neuroimmunology of Eating Disorders.
In *Biological Psychiatry*, Padstow, (2002), Wiley, Eds.: D'Haenen H. et al., pp. 1149-1159.

59. KONSMAN J.P. and LUHESHI G.N.-
CNS responses to peripheral insults.
In *Immune and Inflammatory Responses in the Nervous System*, Oxford, (2002), Oxford University Press, Eds.: Rothwell N. and Loddick S., pp. 51-69.

Publications in history and philosophy of science

ARTICLES

1. KONSMAN J.P. and REYES T.M.-

The lost cause of not being mechanistic enough? A perspective inspired by philosophy of science.
Brain Behavior and Immunity, Vol. 84, (2020) pp. 1-3.

2. KONSMAN J.P.-

Inflammation and depression: a nervous plea for psychiatry to not become immune to interpretation.

Pharmaceuticals (Basel), Vol. 12, N°1, (2019) pii: E29

3. HOOKS K. KONSMAN J.P. and O'MALLEY M.-

Microbiota-gut-brain research: a critical analysis.

Behavioral and Brain Sciences, (2018) Sep 12:1-40.

4. BOURDAA M., KONSMAN J.P., SECAIL C., VENTURINI T., VEYRAT-MASSON I. and GONON F.-

Does television reflect the evolution of scientific knowledge? The case of attention deficit hyperactivity disorder coverage on French television.

Public Understanding of Science, Vol. 24, N° 2 (2015) pp. 200-209.

5. BRUN C., DEMAZEUX S., DI VITTORIO P., GONON F., GORRY, Ph., KONSMAN, J.P., LUNG F., LUNG Y., MINARD M., MONTALBAN M., RUMEAU N. and SMITH A.-

La construction des catégories diagnostiques de maladie mentale.

Régulation, Vol. 17, 1^{er} semestre (2015)

6. BRUN C. and KONSMAN J.P.-

Exclusion d'interactions sociales et imagerie cérébrale.

Hermès, N° 68 (2014) pp. 59-61.

7. GONON F., KONSMAN J.P., COHEN N. and BORAUD T.-

Why Most Biomedical Findings Echoed by Newspapers Turn Out to be False: The Case of Attention Deficit Hyperactivity Disorder.

PLoS One, Vol. 7, N°9 (2012) e44275.

CHAPTERS

8. KONSMAN, J.P.-

Health concepts at work in interdisciplinary fields.

In *Explaining health across the sciences*, (2020), Springer Nature Switzerland AG, Eds.: Sholl J. and Rattan S., pp. 115-136.

9. BRUN C. and KONSMAN, J.P. -

Biologisation des discours relatifs au rejet social dans les médias spécialisés et grand public : enjeux épistémologiques et éthiques. [Biologisation of the discourse on social exclusion in specialised and lay public media.]

In *Biologisation du social*, Paris, (2017), Presses de Paris Ouest, Eds.: Lemerle S. and Renaud-Paligot C., pp. 73-94.

10. GONON F. KONSMAN, J.P. and BORAUD T.-
Neurosciences et médiatisation : entre argumentation de la preuve et rhétorique de la promesse.
[Neuroscience and media coverage: between reasoning based on evidence and rhetoric of
promise.]
In *Neurosciences et Société*, Paris, (2014), Armand Collin, Eds.: Chalmak B. and Moutaud B., pp.
109-136.