

# GUSTAVO PACHECO-LOPEZ PHD

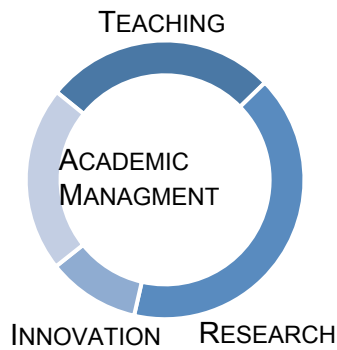
CURRICULUM VITAE  
MARCH 2018

## CONTACT

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## PERSONAL DATA

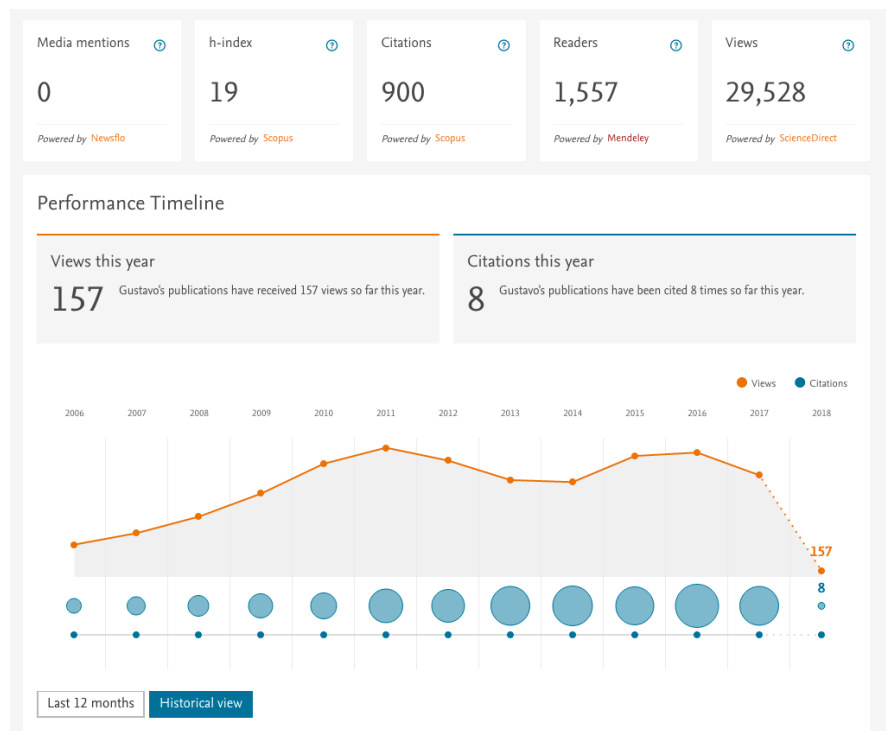
Birth date: 07/Nov/1974  
Citizenship: Mexican  
Civil status: Married  
Children: 2

## RESEARCH INTEREST

Integrative Behavioral  
Neuroscience

- Behavioral modulation of neuro-endocrine-immune interactions
- Central processing of peripheral immune challenges
- Mechanism of the eating inhibitory effects of gut peptides
- Adipose pro-inflammatory cytokines as triggers of the metabolic syndrome
- Microbiota-Gut-Brain axis

## INFO-METRICS



## ACADEMIC BACKGROUND

PhD (Biomedical Sciences)  
Feb 1998 – Jan 2003  
National Autonomous University of Mexico (UNAM), Mexico /  
Duisburg-Essen University, Germany

BSc (Experimental Biology)  
Sep 1993 – Aug 1997  
Metropolitan Autonomous University (UAM), Mexico

## PROFESSIONAL EXPERIENCE

Tenured Professor (Full time) *Sep 2011 –*  
Metropolitan Autonomous University (UAM), Campus Lerma, Mexico, *Department of Health Sciences*

Guest Professor (Full time) *Aug 2016 – March 2018*  
Swiss Federal Institute of Technology (ETH) Zurich, Switzerland, *Department of Health Sciences & Technology*

Senior Researcher (Part time) *Oct 2014 – Oct 2015*  
Leiden University, The Netherlands, *Health, Medical, and Neuropsychology Unit*

Honorary Lecturer (Part time) *May 2012 – May 2016*  
Swiss Federal Institute of Technology (ETH) Zurich, Switzerland, *Institute of Food, Nutrition & Health*

Head of Department *Sep 2011 – Sep 2015*  
Metropolitan Autonomous University (UAM), Campus Lerma, Mexico

Senior Associate Researcher *Jan 2008 – Dec 2011*  
Swiss Federal Institute of Technology (ETH) Zurich, Switzerland, *Institute of Food, Nutrition and Health*

Full Professor *Aug 2006 – Dec 2007*  
Research & Advances Studies Center (CINVESTAV) Mexico, *Physiology, Biophysics & Neuroscience Department*

Postdoctoral Research *Jan 2005 – Jul 2006*  
Swiss Federal Institute of Technology (ETH) Zurich, Switzerland, *Institute for Behavioral Sciences*

DFG-Postdoctoral Research *Apr 2003 – Dec 2004*  
Duisburg-Essen University, Germany, *Institute for Medical Psychology*

CV Pacheco-López PhD, March 2018

## DISTINCTIONS

2017 State Award for Science and Technology  
Government of the State of Mexico (Edo Mex), Mexico  
2017 “Cleveringa Lecture” in Mexico  
Leiden University, The Netherlands  
National Researcher level SNI-2  
Mexican Research System (SNI-CONACYT), Mexico *Jan 2007-up to date*  
Graduate scholarship  
German Academic Exchange Service (DAAD), Germany  
2001-2003  
Trainee travel award  
PsychoNeuroImmunology Research Society  
USA 1999, 2001, 2002, 2005  
Graduate scholarship  
Mexican Research Council (CONACYT) - 1998-2003  
Best overall generation grade  
Metropolitan Autonomous University (UAM) -1998

## MEMBERSHIPS

Society for the Study of Ingestive Behavior (SSIB)  
Member since 2008  
PsychoNeuroImmunology Research Society  
(PNIRS)  
Member since 1999  
International Society for NeuroImmunoModulation  
(ISNIM)  
Member since 2006  
German Brain-Immune Network (GEBIN)  
Member since 2001  
Neuro-Immune-Endocrine Mexican Society  
(SMNIE)  
Member since 2011

## FUNDING

State of Mexico Research Council (COMECYT) Mexico 2016-2017	15,000 USD
Mexican Research Council (CONACYT) Mexico 2016	315,000 USD
Mexican Research Council (CONACYT) Mexico 2016-2019	300,000 USD
Mexican Research Council (CONACYT) & German Academic Exchange Service (DAAD) Mexico-Germany 2016-2017	50,000 USD
Mexican Research Council (CONACYT) & French National Research Agency (ANR) Mexico-France 2016-2019	500,000 EUR
Mexican Research Council (CONACYT) Mexico 2015	350,000 USD
Mexican Research Council (CONACYT) Mexico 2014-2015	300,000 USD
Metropolitan University (UAM) Mexico 2014-2015	100,000 USD
Mexican Education Ministry (SEP) Mexico 2013	35,000 USD
Mexican Research Council (CONACYT) Mexico 2007	30,000 USD
ETH Zurich Cooper Fund Grant Switzerland 2008	45,000 CHF
ETH Zurich 0-20297-05 Grant Switzerland 2006-2007	205,000 CHF

## ACADEMIC MANAGEMENT

Psychology BSc. Studies Coordinator *Oct 2017 – up to date*  
Metropolitan Autonomous University (UAM), Lerma Campus, Mexico, Health Sciences Department  
Research Unit Coordinator *March 2015 – up to date*  
CONACYT National Laboratory – CI3M Mexiquense, Metropolitan Autonomous University (UAM), Lerma Campus, Mexico  
Head of Research Department *Sep 2011 – Sep 2015*  
Metropolitan Autonomous University (UAM), Lerma Campus, Mexico, Health Sciences Department  
Group Leader and Laboratory manager *Jan 2008 – Sep 2011*  
Swiss Federal Institute of Technology (ETH) Zurich, Switzerland, Food, Nutrition and Health Institute  
Group Leader and Laboratory manager *Aug 2006 – Dec 2007*  
Research and Advances Studies Center (CINVESTAV) – IPN, Mexico (Physiology, Biophysics, and Neuroscience Department)

## MENTORING

### Associate Researcher

1. Dr. Lizbeth Cárdenas  
*CONACYT-UAM, Mexico (2015)*

### Postdoctoral Researcher

4. Dr. Cesar Romero Rebollar  
*UAM, Mexico (2016- )*
3. Dr. Luis Rodriguez Duran  
*UAM, Mexico (2014-2016)*
2. Dr. Pascal Morin  
*UAM, Mexico (2014-2016)*
1. Dr. Kioko Guzman Ramos  
*CONACYT-UAM, Mexico (2012-2015)*

### PhD Thesis

13. Leonor Garcia Gómez  
*UAM, Mexico / Uni-Bordeaux, France (2016- )*
12. Marianela Santoyo Zedillo  
*UAM, Mexico / Uni-Bordeaux, France (2016- )*
11. Mirna Pineda Ortiz  
*UAM, Mexico (2014- )*
10. Javier Reyes Lagos  
*UAM, Mexico (2013- )*
9. Claudia Pérez Díaz  
*CINVESTAV-IPN, Mexico (2013- )*
8. Kalyanasundar Balasubramanian  
*CINVESTAV-IPN, Mexico (2012-2015)*
7. Eugenia McAllister  
*ETH-Zurich, Switzerland (2011-2014)*
6. Mukesh Punjabi  
*ETH-Zurich, Switzerland (2009-2013)*
5. Erika Lara  
*CINVESTAV-IPN, Mexico (2007)*
4. Raphaël Doenlen  
*ETH-Zurich, Switzerland (2005-2008)*
3. Carsten Riether  
*ETH-Zurich, Switzerland (2005-2008)*
2. Wei Kou  
*University of Duisburg-Essen, Germany (2002-2004)*
1. Maj-Britt Niemi  
*University of Duisburg-Essen, Germany (2002-2004)*

### Master Thesis

12. Anastasija Nuffer  
*ETH Zurich, Switzerland (2016-2017)*
11. Carlos Sarmiento García  
*UAM, Mexico (2016-2017)*
10. Seicy Adriana Velázquez Villegas  
*UAM, Mexico- NMBU Norway (2015-2016)*
9. Virgina Jiménez de la Cuesta Salcedo  
*Bermer Universitäts, Germany (2014-2015)*
8. Gabriela Bravo Ruiseco  
*UAM, Mexico (2014-2015)*
7. Zhenia Rebolledo Rodríguez  
*UAEMex, Mexico (2013-2015)*
6. Mikal Núñez Morales  
*UAEMex, Mexico (2013- )*
5. Mario Baez Yañez  
*UAM, Mexico (2012-2013)*
4. Sereina Maibach  
*ETH-Zurich, Switzerland (2010-2011)*
3. Yungting Dai  
*ETH-Zurich, Switzerland (2010-2011)*
2. Marie Labouesse  
*University Paris, France (2011-2012)*
1. Eugenia McAllister  
*University of Zurich, Switzerland (2009-2010)*

### Bachelor Thesis

8. Gina Wiestner  
*Food sciences BSc., ETH Zurich, Switzerland (2017)*
7. Andrea Rodríguez Cruz  
*Environmental biology BSc., UAM, Mexico (2015)*
6. Dámaris Segura  
*Experimental biology BSc., UAM, Mexico (2012-2013)*
5. Anita Turnherr  
*Vet MD., University of Zurich, Switzerland (2009-2010)*
4. Isabelle Baumgartner  
*Vet MD., University of Zurich, Switzerland (2008-2009)*
3. Margarete Härting  
*MD., University of Duisburg-Essen, Germany (2003)*
2. Andre Bilhäuser  
*MD., University of Duisburg-Essen, Germany (2002)*
1. Miriam Zamorano Rojas  
*Biology BSc., UNAM, Mexico (2000-2001)*

## DIDACTICS

### Graduate

- Research seminar  
*UAM, Mexico, (2012, 13, 14, 15, 16, 17, -)*
- Introduction to experimental research  
*UAM, Mexico (2012, 13, 14, 15, 16, 17 -)*
- Experimental design & experimental research  
*UAM, Mexico (2012, 13, 14, 15, 16, 17-)*
- Physiology of Eating  
*ETH-Zurich, Switzerland (2010, 11, 12, 13, 16, 17, -)*
- Fundamentals of Physiology  
*CINVESTAV-IPN, México (2007)*

### Under-graduate

- Biological foundations of behavior  
*UAM, Mexico, (2014, 15, 16)*
- Discovering Statistics Using R  
*UAM, Mexico, (2013)*
- Molecular biology  
*UAM, Mexico, (2012, 16, 17 -)*
- Experimental work  
*UAM, Mexico, (2012, 13)*
- Research seminar  
*UAM, Mexico, (2012, 13)*
- Introduction to Biochemistry  
*UNAM, Mexico, (1998-2000)*
- Selected topics of Biomedicine  
*UNAM, Mexico, (1999-2000)*

## SCIENTIFIC PRODUCTION

### Book chapters (peer-reviewed):

1. *Psiconeuroinmunología*, **Pacheco-López G**, de la Fuente del Rey M, in *Probióticos, prebióticos y salud: Evidencia científica*, Ed. Alvarez Calatayud G, Marcos A, Margolles A, Ergon Press, Madrid, 2016, pp. 173-182.
2. *GLP-1*, **Pacheco-López G** & Langhans W, in: *Handbook of Biologically Active Peptides (2nd edition)* Ed. Abba Kastin, Academic Press, 2013, pp. 1111-1117.
3. *Taste-Immune Associative Learning*, **Pacheco-Lopez G**, Engler H, Niemi M-B, Schedlowski M, in: *Conditioned Taste Aversion: Behavioral and Neural Processes* Ed. S. Reilly and T. R. Schachtman, Oxford University Press, 2009, pp. 473-496.
4. *Neuro-Immune Associative Learning*, Niemi M-B, **Pacheco-López G**, Engler H, Riether C, Doenlen R, Schedlowski M. in: *Handbook of Neurochemistry and Molecular Neurobiology: Neuroimmunology* Ed. A. Lajtha, A Galoyan and H.O. Besedovsky, Springer Press, 2008, pp. 123-150.
5. *Neuro-Immune Associative Learning*, **Pacheco-Lopez G**, Niemi M-B, Engler H, Schedlowski M., in: *Neural Plasticity and Memory: From Genes to Brain Imaging*, Ed. F. Bermudez-Rattoni, Series: *Frontiers in Neuroscience*, CRC Press, 2007 pp. 285-301.
6. *Conditioned enhancement of immune responses*, **Pacheco-López G**, Niemi M-B, Harald E, & Schedlowski M. in: *Psychoneuroimmunology 4ed*, Ed. Ader R, Academic Press, 2006, pp. 631-660.
7. *Klassische Konditionierung von Immunfunktionen*, Engler H, Niemi M-B, **Pacheco-López G**, & Schedlowski M, in: *Lehrbuch der klinischen Pathophysiologie multifaktorieller Erkrankungen, Volume 1: Physiologische Grundlagen*, Ed. Straub R, 2006, pp. 225-230.
8. *Behavioral conditioning of Immunity: Bi-directional interactions between the immune system and the nervous system*, **Pacheco-López G**, Niemi M-B, Engler H, & Schedlowski M. in: *Stress, Behaviour and Immune Response*, Eds. Schütt C, & Hannich HJ, Pabst Science Publishers, 2005, Lengerich, pp. 107-115.

### Scientific papers (peer-reviewed):

1. Pineda-Ortiz M, **Pacheco-López G**, Rubio-Osornio M, Rubio C, Valadez-Rodriguez J., *Neurorehabilitation of saccadic ocular movement in a patient with a homonymous hemianopia postgeniculate caused by an arteriovenous malformation*. Medicine 2018; in press.
2. Escalante-Gaytán J, Reyes-Lagos J, Peña-Castillo JJ, García-González MT, Becerril-Villanueva E, Pavon L, Ledesma-Ramírez CI, Ayala-Yañez R, González-Camarena R, **Pacheco-López G**, *Associations of Immunological Markers and Anthropometric Measures with Linear and Nonlinear Electrohysterographic Parameters at Term Active Labor*, Adv Neuroimmune Biol, 2018; in press.
3. Reyes-Lagos JJ, Peña-Castillo MA, Echeverría JC, Perez-Sanchez G, Alvarez-Herrera S, Becerril-Villanueva E, Pavon L., Ayala- Yañez R., González-Camarena R., **Pacheco-López G**, *Women Serum Concentrations of the IL-10 Family of Cytokines and IFN- $\gamma$  Decrease from the Third Trimester of Pregnancy to Active Labor*. Neuroimmunomodulation 2017;24(3):162-170.
4. Bauer D, Busch M, **Pacheco-López G**, Kasper M, Wildschütz L, Walscheid K, Bähler H, Schröder M, Thanos S, Schedlowski M, Heiligenhaus A., *Behavioral Conditioning of Immune Responses with Cyclosporine A in a Murine Model of Experimental Autoimmune Uveitis*, Neuroimmunomodulation. 2017;24(2):87-99.
5. Tekampe J, van Middendorp H, Meeuwis SH, van Leusden JW, **Pacheco-López G**, Hermus AR, Evers AW., *Conditioning Immune and Endocrine Parameters in Humans: A Systematic Review*., Psychother Psychosom. 2017;86(2):99-107
6. Morin JP, Rodriguez-Duran LF, Guzman-Ramos K, Perez-Cruz C, Ferreira G, Diaz-Cintra S, **Pacheco-Lopez G**, *Palatable hyper-caloric foods impact on neuronal plasticity*. Front Behav Neurosci (2017) 11:19.
7. Elorza-Avila AR, Reyes-Lagos JJ, Hadamitzky M, Peña-Castillo MA, Echeverría JC, Ortiz-Pedroza MA, Lückemann L, Schedlowski M, **Pacheco-López G**, *Oxytocin's role on the cardiorespiratory activity of endotoxemic rats*., Resp Physiol Neurobiol; (2017) 236; 19–22
8. Boitard C, Parkes SL, Cavaroc A, Tantot F, Castanon N, Layé S, Tronel S, **Pacheco-Lopez G**, Coutureau E and Ferreira G (2016) *Switching Adolescent High-Fat Diet to Adult Control Diet Restores Neurocognitive Alterations*. Front. Behav. Neurosci. (2016) 10:225.
9. Reyes-Lagos JJ, Hadamitzky M, Peña-Castillo MÁ, Echeverría JC, Bösche K, Lückemann L, Schedlowski M, **Pacheco-López G**, *Exogenous oxytocin reduces signs of sickness behavior and modifies heart rate fluctuations of endotoxemic rat*., Physiol Behav. 2016; 165:223-30
10. Morin JP, Cerón-Solano G, Velázquez-Campos G, **Pacheco-López G**, Bermúdez-Rattoni F, Díaz-Cintra S., *Spatial Memory Impairment is Associated with Intraneural Amyloid- $\beta$  Immunoreactivity and Dysfunctional Arc Expression in the Hippocampal-CA3 Region of a Transgenic Mouse Model of Alzheimer's Disease*, J Alzheimers Dis. 2016;51(1):69-79.
11. Reyes-Lagos JJ, Echeverría-Arjonilla JC, Peña-Castillo MÁ, García-González MT, Ortiz-Pedroza Mdel R, **Pacheco-López G**, Vargas-García C, Camal-Ugarte S, González-Camarena R. *A comparison of*

- heart rate variability in women at the third trimester of pregnancy and during low-risk labour.* *Physiol Behav.* 2015 Oct 1;149:255-61.
12. Mc Allister E, **Pacheco-Lopez G**, Woods SC, Langhans W, *Inconsistencies in the hypophagic action of intracerebroventricular insulin in mice.* *Physiol Behav.* 2015; 151:623-628
  13. Mansouri A, **Pacheco-López G**, Ramachandran D, Arnold M, Leitner C, Prip-Buus C, Langhans W, Morral N., *Enhancing hepatic mitochondrial fatty acid oxidation stimulates eating in food-deprived mice.*, *Am J Physiol Regul Integr Comp Physiol.* 2015 Jan 15;308(2): R131-7.
  14. Reyes-Lagos J, Echeverria-Arjonilla JC, Peña-Castillo MA, Montiel-Castro AJ, **Pacheco-López G.**, *Physiological, Immunological and Evolutionary Perspectives of Labor as an Inflammatory Process.*, *Adv Neuroimmune Biol.* 5 (2014) 75–89
  15. Punjabi M, Arnold M, Rüttimann E, Graber M, Geary N, **Pacheco-López G**, Langhans W., *Circulating Glucagon-like Peptide-1 (GLP-1) Inhibits Eating in Male Rats by Acting in the Hindbrain and Without Inducing Avoidance.*, *Endocrinology.* 2014 May;155(5):1690-9.
  16. Montiel-Castro AJ, Báez-Yáñez GM, **Pacheco-López G.**, *Social neuroeconomics: the influence of microbiota in partner-choice and sociality.* *Curr Pharm Des.* 2014;20(29):4774-83.
  17. Montiel-Castro AJ, González-Cervantes RM, Bravo-Ruiseco G, **Pacheco-López G.** *The microbiota-gut-brain axis: neurobehavioral correlates, health and sociality.* *Front Integr Neurosci.* 2013;7:70.
  18. Schober G, Arnold M, Birtles S, Buckett LK, **Pacheco-López G**, Turnbull AV, Langhans W, Mansouri A. *Diacylglycerol acyltransferase-1 inhibition enhances intestinal fatty acid oxidation and reduces energy intake in rats.* *J Lipid Res.* 2013 May;54(5):1369-84.
  19. Prager G, Hadamitzky M, Engler A, Doenlen R, Wirth T, **Pacheco-López G**, Krügel U, Schedlowski M, Engler H. *Amygdaloid signature of peripheral immune activation by bacterial lipopolysaccharide or staphylococcal enterotoxin B.* *J Neuroimmune Pharmacol.* 2013;8(1):42-50.
  20. **Pacheco-López G**, Giovanoli S, Langhans W, Meyer U. *Priming of Metabolic Dysfunctions by Prenatal Immune Activation in Mice: Relevance to Schizophrenia.* *Schizophr Bull.* 2013 (2): 319-329.
  21. Labouesse MA, Stadlbauer U, Weber E, Arnold M, Langhans W, **Pacheco-López G.** *Vagal afferents mediate early satiation and prevent flavour avoidance learning in response to intraperitoneally infused exendin-4.* *J Neuroendocrinol.* 2012 Dec;24(12):1505-16.
  22. **Pacheco-López G**, Doenlen R, Krügel U, Arnold M, Wirth T, Riether C, Engler A, Niemi MB, Christians U, Engler H, Schedlowski M. *Neurobehavioural activation during peripheral immunosuppression.*, *Int J Neuropsychopharmacol.* 2012 5:1-13.
  23. Harald E, Doenlen R, Engler A, Riether C, Prager G, Niemi M-B, **Pacheco-López G**, Krügel U, Schedlowski M. *Acute amygdaloid response to systemic inflammation,* *Brain Behav Immun.* 2011 Oct;25(7):1384-92.
  24. **Pacheco-López G**, Bermudez-Rattoni F. *Brain-immune interactions and the neural basis of disease ingestive avoidant behavior.* *Philos Trans R Soc Lond B Biol Sci.* 2011 Dec 12;366(1583):3389-405.
  25. Punjabi M, Geary N, Langhans W, **Pacheco-López G.** *Peripheral Glucagon-like Peptide-1 (GLP-1) and Satiation.* *Physiol Behav.* 2011 Nov 30;105(1):71-6.
  26. de Kloet AD, **Pacheco-López G**, Langhans W, Brown LM. *The effect of TNF $\alpha$  on food intake and central insulin sensitivity in rats.* *Physiol Behav.* 2011 Apr 18;103(1):17-20.
  27. Doenlen R, Krügel U, Wirth T, Riether C, Engler A, Prager G, Engler H, Schedlowski M, **Pacheco-López G.** *Electrical activity in rat cortico-limbic structures after single or repeated administration of lipopolysaccharide or staphylococcal enterotoxin B.* *Proc. R. Soc. B* 2011 278, 1864-1872.
  28. Baumgartner I, **Pacheco-López G**, Asarian L, Geary N, Langhans W, Hillenbrand J, *Hepatic-portal vein infusions of GLP-1 reduce meal size and increase c-Fos expression in the NTS, AP, and CeA in rats,* *J Neuroendocrinology* *J Neuroendocrinol.* 2010 Jun;22(6):557-63.
  29. Riether C, Kavelaars A, Wirth T, **Pacheco-López G**, Doenlen R, Willemsen H, Heijnen CJ, Schedlowski M, Engler H. *Stimulation of  $\beta_2$ -adrenergic receptors inhibits calcineurin activity in CD4(+) T cells via PKA-AKAP interaction.* *Brain Behav Immun.* 2011 Jan;25(1):59-66.
  30. Engler H, Doenlen R, Riether C, Engler A, Besedovsky HO, Del Rey A, **Pacheco-López G**, Schedlowski M *Chemical destruction of brain noradrenergic neurons affects splenic cytokine production,* *J Neuroimmunol* 2010 Feb 26, 219:75-80.
  31. Schedlowski M, **Pacheco-López G**, *The learned immune response: Pavlov and beyond.* *Brain, Behavior and Immunity* 2010, 24:176-85.
  32. Engler H, Doenlen R, Riether C, Engler A, Niemi M-B, Besedovsky HO, del Rey A, **Pacheco-López G**, Feldon J, Schedlowski M, *Time-dependent alterations of peripheral immune parameters after nigrostriatal dopamine depletion in a rat model of Parkinson's disease.* *Brain Behavior and Immunity,* 2009, 23:518-26.
  33. **Pacheco-López G**, Riether C, Doenlen R, Engler H, Niemi MB, Engler A, Kavelaars A, Heijnen CJ, Schedlowski M, *Calcineurin inhibition in splenocytes induced by pavlovian conditioning.* *FASEB Journal* 2009, 23:1161-7.
  34. Riether C, Doenlen R, **Pacheco-López G**, Niemi M-B, Engler A, Engler H, Schedlowski M, *Behavioural conditioning of immune functions: How the CNS controls peripheral immune responses by evoking associative learning processes,* *Reviews in the Neurosciences* 2008;19 1-17.

35. **Pacheco-López G**, Niemi M-B, Engler H, Engler A, Riether C, Doenlen R, Espinosa E, Oberbeck R, Schedlowski M. *Weakened taste-LPS association during endotoxin tolerance*, *Physiology and Behavior* 2008, 93, 753-765.
36. **Pacheco-López G**, Niemi M-B, Kou W, Baum S, Hoffman M, Altenburger P, del Rey A, Besedovsky HO, Schedlowski M, *Central blockade of IL-1 does not impaired taste-LPS associative learning Neuroimmunomodulation* 2007, 14. 150-156.
37. Kou W, Gareus I, Bell JD, Goebel MU, Spahn G, **Pacheco-López G**, Bäcker GM, Schedlowski M, Dobos GJ, *Quantification of DeQi Sensation by Visual Analog Scales in Healthy Humans after Immunostimulating Acupuncture Treatment*, *American Journal of Traditional Chinese Medicine* 2007, 35, 753-765.
38. Niemi MB, Härting M, Kou W, del Rey A, Besedovsky HO, Schedlowski M, **Pacheco-López G**, *Taste-Immunsuppression Engram: reinforcement and extinction Journal of Neuroimmunology* 2007, 188:74-79.
39. **Pacheco-López G**, Engler H, Niemi MB, Schedlowski M, *Expectations and associations that heal: Immunomodulatory placebo effects and its neurobiology, Brain, Behavior and Immunity* 2006, 20:430-46.
40. Niemi M-B, **Pacheco-López G**, Kou W, Härting H, del Rey A, Besedovsky HO, Schedlowski M, *Murine Taste-Immune associative learning, Brain, Behavior and Immunity* 2006, 20:527-31.
41. Kou W, Bell JD, Gareus I, **Pacheco-López G**, Goebel MU, Spahn G, Stratmann M, Janssen OE, Schedlowski M, Dobos GJ., *Repeated acupuncture treatment affects leukocyte circulation in healthy young male subjects: a randomized single-blind two-period crossover study, Brain Behavior and Immunity* 2005, 19:318-324.
42. **Pacheco-López G**, Niemi MB, Kou W, Härting M, Fandrey J, Schedlowski M, *Neural substrates for behaviorally conditioned immunosuppression in the rat, Journal of Neurosciences* 2005, 25:2330-2337.
43. **Pacheco-López G**, Niemi MB, Kou W, Härting M, del Rey A, Besedovsky HO, Schedlowski M, *Behavioural endocrine immune-conditioned response is induced by taste and superantigen pairing, Neuroscience* 2004, 129:555-562.
44. **Pacheco-López G**, Niemi MB, Kou W, Bildhäuser A, Gross CM, Goebel MU, del Rey A, Besedovsky HO, Schedlowski M, *Central catecholamine depletion inhibits peripheral lymphocyte responsiveness in spleen and blood, Journal of Neurochemistry* 2003, 86:1024-1031.
45. **Pacheco-López G**, Espinosa E, Zamorano-Rojas HM, Ramírez-Amaya V, Bermúdez-Rattoni F, *Peripheral protein immunization induces rapid activation of the CNS, as measured by c-Fos expression, Journal of Neuroimmunology* 2002, 131:50-59.

## ANCILLARY ACTIVITIES

Promoter of the Sendai Framework for Disaster Risk Reduction - UNISDR Oct 2017 – up to date