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EDUCATION – RESEARCH EXPERIENCE

- 2020 – Research Associate. Case Western Reserve University, Department of Medicine, Cleveland, OH. PI Dr. Atul R. Chopra.
- 2019 Postdoctoral Fellow (07/19 – 12/19). Weizmann Institute of Science. Rehovot, Israel. Major advisor: Dr. Gad Asher.
- 2019 Research assistant, volunteer (03/19 – 06/19). National Autonomous University of Mexico. Institute of Neurobiology. Major advisor: Dr. Isabel Mendez.
- 2016 – 2017 Postdoctoral Fellow. University of Toronto - St. Michael's Hospital. Toronto, Canada. Major advisor: Dr. Warren L. Lee.
- 2011 – 2016 Ph.D. National Autonomous University of Mexico. Biochemistry. Major advisor: Dr. Ruud M. Buijs.
- 2006 – 2008 M.Sc. National Autonomous University of Mexico. Neurobiology. Degree with Honors. Major advisor: Dr. M. Isabel Miranda.
- 1996 – 2000 B.S. Autonomous University of Queretaro, Mexico. Pharmaceutical and biological Chemistry. Major advisor: Dr. Sandra Mendoza-Díaz.

CLINICAL EXPERIENCE

- 2018 Clinical chemistry. Private laboratory, Queretaro, Mex.
- 2016 Clinical chemistry. Private laboratory, Queretaro, Mex.
- 2009 – 2010 Clinical chemistry. Private laboratory, Queretaro, Mex.
- 2001 – 2006 Clinical chemistry. Private laboratory, Queretaro, Mex.

PUBLICATIONS

Mishra I, Duerschmid C, Ku Z, He Y, Xie W, Sabath Silva E, Hoffman J, Xin W, Zhang N, Xu Y, An Z, Chopra AR. Asprosin-neutralizing antibodies as a treatment for metabolic syndrome. *Elife*. 2021; 10:e63784.

Manella G, Sabath E, Aviram R, Dandavate V, Ezagouri S, Golik M, Adamovich Y, Asher G. The liver-clock coordinates rhythmicity of peripheral tissues in response to feeding. *Nature Metabolism*. 2021; 3(6): 829-842.

Báez-Ruiz A, Guerrero-Vargas NN, Cázarez-Márquez F, Sabath E, Basualdo MDC, Salgado-Delgado R, Escobar C, Buijs RM. Food in synchrony with melatonin and corticosterone relieves constant light disturbed metabolism. *Journal of Endocrinology*. 2017; 235:167-178.

Guzmán-Ruiz MA, Ramirez-Corona A, Guerrero-Vargas NN, Sabath E, Ramirez-Plascencia OD, Fuentes-Romero R, León-Mercado LA, Basualdo Sigales M, Escobar C, Buijs RM. Role of the suprachiasmatic and arcuate nuclei in diurnal temperature regulation in the rat. *Journal of Neuroscience*. 2015; 35: 15419-15429.

Sabath E, Báez-Ruiz A, Buijs RM. Non-alcoholic fatty liver disease as a consequence of autonomic imbalance and circadian desynchronization. *Obesity Reviews*. 2015; 10: 871-882.

Sabath E, Salgado-Delgado R, Guerrero-Vargas NN, Guzman-Ruiz MA, del Carmen Basualdo M, Escobar C, Buijs RM. Food entrains clock genes but not metabolic genes in the liver of suprachiasmatic nucleus lesioned rats. *FEBS Letters*. 2014; 588: 3104-3110.

Robles-Osorio ML, Pérez-Maldonado IN, Martín del Campo D, Montero-Perea D, Avilés-Romo I, Sabath-Silva E, Sabath E. Urinary arsenic levels and risk of renal injury in a cross-sectional study in open population. *Revista de Investigación Clínica*. 2012; 64: 609-614.

Miranda MI, Sabath E, Nuñez-Jaramillo L, Purón-Sierra L. β -Adrenergic receptors in the insular cortex are differentially involved in aversive vs. incidental context memory formation. *Learning and Memory*. 2011; 18: 502-507.

Purón-Sierra L, Sabath E, Nuñez-Jaramillo L, Miranda MI. Blockade of nucleus basalis magnocellularis or activation of insular cortex histamine receptors disrupts formation but not retrieval of aversive taste memory. *Neurobiology of Learning and Memory*. 2010; 93: 216-220.

Chapter in book

Buijs R, Salgado R, Sabath E, Escobar C. Peripheral circadian oscillators: time and food. In: *Progress in Molecular Biology and Translational Science*. Edited by M. Gillette, Elsevier Inc., 119: 83-103, 2013.

PRESENTATIONS

2018, February 2nd. Biochemistry Department, Faculty of Chemistry, National Autonomous University of Mexico, Mexico City, Mexico. Departmental Seminar. *Title*: Transporte endothelial y enfermedad.

2017, October 2nd. Keenan Research Centre for Biomedical Science at St Michael's Hospital, Toronto, Canada. Departmental Seminar. *Title*: Time matters.

2015, April 17. Cellular Biology and Physiology Department, Biochemical Research Institute, National Autonomous University of Mexico, Mexico City, Mexico. Student Seminar. *Title*: Relacion entre genes reloj y genes metabolicos en el higado.

2015, August 13. Metabolic Signaling and Disease: From Cell to Organism. Meeting at Cold Spring Harbor Laboratory, NY. Poster presentation. *Title*: Food: The driving force behind the metabolic-clock gene connection in the liver?

2012, October 14. Annual Meeting of the Society for Neuroscience. New Orleans, LA. Poster presentation. *Title*: Clock gene expression in the liver induced by food: Rhythm or hour glass? Poster, 2012.

2008, November 16. Annual Meeting of the Society for Neuroscience. New Orleans, LA. Poster presentation. *Title*: Participation of beta-adrenergic receptors in the insular cortex during a latent inhibition model.

2007, September 26. Annual Academic Conferences, Institute of Neurobiology, National Autonomous University of Mexico. Poster presentation. *Title*: Efecto del bloqueo de los receptores beta-adrenérgicos en la corteza insular durante la formación de una memoria no aversiva de contexto.

FELLOWSHIPS / AWARDS

- Member of the National System of Researchers, Level 1 2019-2021.

-Martin Kushner Schnur and Armando and Maria Jinich Postdoctoral Fellowship for Mexican Citizens, Weizmann Institute of Science 2019-2020.

- National Council of Science and Technology, International Postdoctoral Fellowship 2016-2017.

- National Council of Science and Technology, Doctoral Fellowship 2011-2015.

RESEARCH SKILLS

- Stereotaxic surgery in rats.
- Cell culture, transfection.
- PCR, Western blot, chromatography in thin layer.
- Confocal and TIRF microscopy.
- Electron microscopy for liquid samples.
- Phlebotomy and clinical chemistry in humans.

LANGUAGES

- Spanish: Native.
- English: Proficient.