Gal Atlan

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Education

2014 – present	Studies towards a Ph.D. in computational neuroscience, direct track, the Edmond and Lily Safra Center for Brain Sciences (ELSC), The Hebrew University of Jerusalem (Advisor: Prof. Ami Citri)
2010 – 2013	B.A. *Magna Cum Laude* in Cognitive Sciences and History, The Hebrew University of Jerusalem

Scientific training and experience

2019 - present	Reviewer for *the Journal of Anatomy*
2020	Gordon Research Conference and Seminar: Thalamocortical Interactions, Ventura, US
2018	Junior Scientist Workshop on Mechanistic Cognitive Neuroscience, Howard Hughes Medical Institute, Janelia Research Campus
2015	ELSC International School 2015: Intracellular *in vivo* Recording, Eilat, IL

Honors and Awards

2019	Federation of European Neuroscience Societies (FENS) travel grant for the Society of Neuroscience (SFN) annual meeting
2019	ELSC Travel Award to present at SFN 2019
2018	Jerusalem Brain Community (JBC) SMART Brain Prize for an outstanding publication (Atlan and Terem et al. 2018)
2018	ELSC Travel Award to present at SFN 2017
2017	ELSC “Seed Grant” for research collaborations. Topic: Automatic segmentation of the human claustrum in vivo using diffusion MRI
2017	ELSC Travel Award to present the 6th International Conference on Auditory Cortex.
2017	Eliahu Youdim Memorial Award
2016	National Institute for Psychobiology in Israel Travel Fellowship
2016	ELSC Travel Award to present at FENS 2016
2016	JBC Poster Blitz Award
2015	ELSC Travel Award to present at SFN 2015
2015	JBC Travel Scholarship

2014	Award for best swift poster session at the 23rd ISFN annual meeting
2013	The department of Cognitive Sciences annual award for outstanding achievements 2013
2012	The department of Cognitive Sciences annual award for outstanding achievements 2012
2012	The Faculty of Humanities Dean's award
2011	The department of Cognitive Sciences annual award for outstanding achievements 2011
2010	Faculty of Humanities Academic Excellence award
2005	Israel Ministry of Education CEO award for top graduate in the 2005 class

Conference Presentations (Select)

2020 **Lecture** at the ELSC annual retreat, Ein Gedi, IL: "The mouse claustrum and its function in behavior under sensory load: from elusive anatomy to physiology"

2020 **Poster** at the Gordon Research Conference and Seminar: Thalamocortical Interactions, Ventura, US: "Fiber photometry of anatomically-defined claustrum populations in awake behaving mice"

2019 **Poster** at annual Society for Neuroscience 2019, Chicago, US: "Fiber photometry of anatomically-defined claustrum populations in awake behaving mice" 331.02

2018 **Poster and oral presentation** at the Junior Scientist Workshop on Mechanistic Cognitive Neuroscience, Howard Hughes Medical Institute, Janelia Research Campus, Ashburn, VA, US: "The claustrum supports resilience to distraction"

2018 **Poster** at the 11th FENS Forum of Neuroscience, Berlin, DE: "The claustrum modulates sensory gain and enables resilience to distraction" D095

2017 **Poster** at annual Society for Neuroscience 2017, Washington DC, US: "The claustrum enables resilience to distraction through gain control of cortical sensory processing" 335.07

2017 **Poster** at the Society for Claustrum Research's 4th Annual Symposium: "Brave New Claustrum", Washington DC, US: "The claustrum enables resilience to distraction through gain control of cortical sensory processing"

2017 **Poster** at the 6th International Conference on Auditory Cortex, Banff, AB, Canada: "Optogenetic activation of the claustrum induces divisive normalization of tone evoked responses in the auditory cortex"

2016 **Lecture** at 25th ISFN annual meeting, Eilat, IL: "A claustral ensemble gates attention by modulating cortical sensory responses"

2016 **Poster** at the 10th FENS Forum of Neuroscience, Copenhagen, DK: "The effect of the claustrum on cortical processing: From anatomy to physiology".

2015 **Poster** at annual Society for Neuroscience 2015, Chicago, US: "Mapping cortico-claustral connectivity in the mouse" 429.16

2015 **Poster** at FENS Featured Regional Meeting 2015, Thessaloniki, GR: "Cortico-claustral connectivity in the mouse – a topographical mapping"

2014 **Poster and swift talk** at 23rd ISFN annual meeting, Eilat, IL: "Selective targeting of claustrum neurons"

Teaching and outreach

2020 – present	Volunteer at the Hadassah Medical Center Joint Lab for COVID-19 high-throughput rtPCR testing
2014 – present	Teaching assistant in the course "Research Techniques in Neurobiology" for graduate students, The Hebrew University of Jerusalem. Consistently ranked in the top 5 teachers of the faculty, per student teaching evaluation survey
2016	Lay audience lecture at "Brain & Beer", hosted by the Jerusalem Brain Community (JBC)
2015	Presentation at Cinema & Brain Week at the Jerusalem Cinematheque

Publications

1. Berman, S, Schurr, R, **Atlan, G**, Citri, A, Mezer A, (2020), Automatic segmentation of the dorsal claustrum in humans using in vivo high-resolution MRI, *Cerebral Cortex Communications* (*in press*).

2. **Atlan, G***, Terem, A*, Peretz-Rivlin, N, Sehrawat, K, Gonzales, B.J., Pozner, G, Tasaka, G, Goll, Y, Refaeli1, R, Zviran, O, Lim, B, Groysman, M, Goshen, I, Mizrahi, A, Nelken, I, Citri, A, (2018), The Claustrum Supports Resilience to Distraction, *Current Biology*, 28(17); 2752-2762. *equal contributors.

   Highlighted in *Nature Reviews Neuroscience:*
   DOI: 10.1038/s41583-018-0056-6

   As well as in a Dispatch in *Current Biology*:
   DOI: 10.1016/j.cub.2018.07.031

   Online lay audience summary (written by Gal Atlan) in *The ScienceBreaker*:
   DOI: 10.25250/thescbr.brk180

3. **Atlan, G**, Terem, A, Peretz-Rivlin, N, Groysman, M, Citri, A, (2016), Mapping Synaptic Cortico-Claustral Connectivity in the Mouse, *Journal of Comparative Neurology* 525(6); 1381-1402.

4. Goll, Y*, **Atlan, G***, Citri, A, (2015), Attention: The Claustrum, *Trends in Neurosciences* 38(8); 486-495. *equal contributors.

Submitted work and papers in preparation for submission:

- **Atlan G**, et al., Claustro-cortical sub-circuits are differentially recruited during attentional tasks (*in prep.)*
- Matosevich, N*, and **Atlan, G***, et al. Activity of claustral networks correlate with global arousal states (*in prep.)*

Lab Skills

Computer skills	Coding and analysis in MATLAB, ImageJ, Adobe Photoshop, Illustrator, InDesign, Graph Pad Prism, Imaris, Synapse.
Animal experimentation	Mouse behavior (operant, innate, and automated), stereotactic surgery and virus injections, optic fiber implantations, perfusion, vibaratome sectioning.
Electrophysiology	*in vivo* glass pipette recordings in anesthetized mice, silicone probe extra-cellular recording, fiber-based calcium photometry in anesthetized and awake mice.
Molecular Biology	Viral tracing and imaging, PCR/qPCR, IHC, cloning, point mutation.