

LIST OF PUBLICATIONS

Amiram Grinvald

February 2020

I. Impact & Statistics: (GS 2019)

Number of citations:	26,648
Total Number of peer reviewed publications:	126
Number of publications cited more than 100 times:	63
Number of publications cited more than 800 times	10
Number of medical patents	7
H-Index	73

II. Research papers.

- Grinvald A. and M. Rabinovitz. The nuclear magnetic resonance spectra of aromatic aldehyde-boron trifluoride complexes. **Chem. Comm.** **642**, (1969).
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- Salzberg B.M., A. Grinvald, L.B. Cohen, H.V. Davila and W.N. Ross. Optical recording of neuronal activity in an invertebrate central nervous system: Simultaneous monitoring of several neurons. **J. Neurophysiol.** **40**, 1281-1291 (1977).
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- Deneux, T., Takerkart, S. Grinvald, A. (2012) A processing work-flow for measuring erythrocytes velocity in extended vascular networks from wide field high-resolution optical imaging data. **NEUROIMAGE** 59: 2569-2588.
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- Omer, David B; Hildesheim, Rina; Grinvald, Amiram Title: Temporally-structured acquisition of multidimensional optical imaging data facilitates visualization of elusive cortical representations in the behaving monkey. **NeuroImage** Volume: 82 Pages: 237-51. 2013
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- Burgansky-Eliash, Zvia; Bartov, Elisha; Barak, Adiel; et al (2016) Blood-Flow Velocity in Glaucoma Patients Measured with the Retinal Function Imager. **CURRENT EYE RESEARCH** Volume: 41 Issue: 7 Pages: 965-970
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- David B. Omer Tomer Fekete, Amiram Grinvald (2017) Dynamics of state transitions in awake primate. **Cerebral cortex**, 2018)
- Liang Wang, Hong Jiang, Amiram Grinvald, Jayadev Chaitra, Jianhua Wang (2017). Clinical applications of the Retinal Function Imager (2018). **Current Eye Research**.
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Submitted

- Naaman S. and Grinvald A. (2019) Attributes of visual inputs determine the transition dynamics of their switching cortical of representations (Submitted)
- Amiram Grinvald, Thomas Deneux, Ruslan Drangai, Rina Hildesheim, Tomer Fekete (2019) VSDI with a new dye detected both coherent input and also output within a given cortical locus, (Submitted)

Abstracts in clinical ophthalmology

- Aloni, EH; Pollack, A; Grinvald, A; et al. (2002) Non-invasive imaging of retinal blood flow and oximetry by a new retinal function imager. **INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE** 43 : U599-U599
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- Nelson, DA; Krupsky, S; Pollack, A; et al.(2005) Special report: Noninvasive multi-parameter functional optical imaging of the eye **OPHTHALMIC SURGERY LASERS & IMAGING** 3657-66
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JAPANESE JOURNAL OF OPHTHALMOLOGY Volume: 53 Issue: 4 Pages: 345-351 Published: JUL 2009
- Burgansky-Eliash, Zvia; Nelson, Darin A.; Bar-Tal, Orly Pupko; et al (2010).REDUCED RETINAL BLOOD FLOW VELOCITY IN DIABETIC RETINOPATHY
RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES : 30, 765-773.
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- C Jayadev, A Mohan, A Grinvald, N Bauer, T Berendschot, C Webers (2016). High speed fundus photography or optical coherence tomography angiography-which one is better for non-invasive capillary perfusion maps and velocity measurem. *Investigative Ophthalmology & Visual Science* 57 (12), 5455-5455

IV. Patents related to clinical applications

- Grinvald A. (1992). Image Acquisition and Enhancement Method and System.
- Grinvald A. and Nelson D. (1998). Systems and Method for Imaging and Analysis of the movement of Individual Red Blood Corpuscles.
- Grinvald A. and Hildesheim R. (1999) The use of blue voltage sensitive dyes; synthesis and applications.
- Grinvald A. Vanzetta I and Nelson D. (2002). Spectral Characterization of Moving Objects Embedded in Stationary Spectral Background.
- Nelson, D., Drori, A. & Grinvald, A. Imaging and analysis of movement of erythrocytes in blood vessels in relation to the cardiac cycle. (Yeda Research and Development Co Ltd, 2012).
- Grinvald, Amiram; Nelson, Darin Arnold; Vanzetta, Ivo. Characterization of arteriosclerosis by optical imaging. Patent Number: US 08521260 Patent Assignee: Yeda Research and Development Co Ltd., Patents Published: AUG 27 2013
- Grinvald, Amiram; Nelson, Darin; Primack, Harel. Time-based imaging Patent Number: US 08403862 Patent Assignee: Yeda Research and Development Co Ltd Published: MAR 26 2013

V. Invited Reviews

- Cohen L.B. , B.M. Salzberg and A. Grinvald. Optical methods for monitoring neuron activity. **Ann Rev. Neurosci.** **1**, 171-182 (1978).
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