

José-Alain Sahel, MD  
List of Selected Publications \* January 2022

- 1) Mohand-Said S, Deudon-Combe A, Hicks D, Simonutti M, Forster V, Fintz AC, Lèveillard T, Dreyfus H, **Sahel J.A.** Normal retina releases a diffusible factor stimulating cone survival in the retinal degeneration mouse. *Proc Natl Acad Sci U S A*. 1998 Jul 7;95(14):8357-62.  
<https://www.ncbi.nlm.nih.gov/pubmed/9653191>
- 2) Lèveillard T, Mohand-Said S, Lorentz O, Hicks D, Fintz AC, Clérin E, Simonutti M, Forster V, Cavusoglu N, Chalmel F, Dollé P, Poch O, Lambrou G, **Sahel J.A.** Identification and characterization of rod-derived cone viability factor. *Nat Genet*. 2004 Jul;36(7):755-9.  
<https://www.ncbi.nlm.nih.gov/pubmed/15220920>
- 3) Busskamp V, Duebel J, Balya D, Fradot M, Viney TJ, Siegert S, Groner AC, Cabuy E, Forster V, Seeliger M, Biel M, Humphries P, Paques M, Mohand-Said S, Trono D, Deisseroth K, **Sahel J.A.**, Picaud S, Roska B. Genetic Reactivation of Cone Photoreceptors Restores Visual Responses in Retinitis pigmentosa. *Science*. 2010 329(5990):413-7.  
<https://www.ncbi.nlm.nih.gov/pubmed/20576849>
- 4) Bouaita A, Augustin S, Lechauve C, Cwerman-Thibault H, Bénit P, Simonutti M, Paques M, Rustin P, **Sahel J.A.**, Corral-Debrinski M. Downregulation of apoptosis-inducing factor in Harlequin mice induces progressive and severe optic atrophy which is durably prevented by AAV2-AIF1 gene therapy. *Brain*. 2012 Jan;135(Pt 1):35-52.  
<https://pubmed.ncbi.nlm.nih.gov/22120150/>
- 5) Aït-Ali N, Fridlich R, Millet-Puel G, Clérin E, Delalande F, Jaillard C, Blond F, Perrocheau L, Reichman S, Byrne LC, Olivier-Bandini A, Bellalou J, Moysse E, Bouillaud F, Nicol X, Dalkara D, van Dorsselaer A, **Sahel J.A.**, Lèveillard T. Rod-derived Cone Viability Factor acts by stimulating aerobic glycolysis. *Cell*. 2015 May 7;161(4):817-32.  
<https://www.ncbi.nlm.nih.gov/pubmed/25957687>
- 6) Vignal C, Uretsky S, Fitoussi S, Galy A, Blouin L, Girmens JF, Bidot S, Thomasson N, Bouquet C, Valero S, Meunier S, Combal JP, Gilly B, Katz B, **Sahel J.A.** Safety of rAAV2/2-ND4 Gene Therapy for Leber Hereditary Optic Neuropathy. *Ophthalmology*. 2018 Jun;125(6):945-947.  
<https://www.ncbi.nlm.nih.gov/pubmed/29426586>
- 7) Roska B, **Sahel J.A.** Restoring vision. *Nature*. 2018 May;557(7705):359-367.  
<https://www.ncbi.nlm.nih.gov/pubmed/29769667>
- 8) **Sahel J.A.**, Bennett J, Roska B. Depicting brighter possibilities for treating blindness. *Sci Transl Med*. 2019 May 29;11(494). pii: eaax2324.  
<https://www.ncbi.nlm.nih.gov/pubmed/31142676>
- 9) Bécu M, Sheynikhovich D, Tatur G, Agathos CP, Bologna LL, **Sahel J.A.**, Arleo A. Age-related preference for geometric spatial cues during real-world navigation. *Nat Hum Behav*. 2020 Jan;4(1):88-99.  
<https://www.ncbi.nlm.nih.gov/pubmed/31548677>
- 10) Palanker D, Le Mer Y, Mohand-Said S, Muqit M, **Sahel JA.** Photovoltaic Restoration of Central Vision in Atrophic Age-Related Macular Degeneration. *Ophthalmology*. 2020 Aug;127(8):1097-1104.  
<https://pubmed.ncbi.nlm.nih.gov/32249038/>

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- 11) Newman NJ, Yu-Wai-Man P, Carelli V, Moster ML, Biousse V, Vignal-Clermont C, Sergott RC, Klopstock T, Sadun AA, Barboni P, DeBusk AA, Girmens JF, Rudolph G, Karanjia R, Taiel M, Blouin L, Smits G, Katz B, **Sahel J.A.**; LHON Study Group. Efficacy and Safety of Intravitreal Gene Therapy for Leber Hereditary Optic Neuropathy Treated within 6 Months of Disease Onset. *Ophthalmology*. 2021 May;128(5):649-660.  
<https://pubmed.ncbi.nlm.nih.gov/33451738/>
- 12) Yu-Wai-Man P, Newman NJ, Carelli V, Moster ML, Biousse V, Sadun AA, Klopstock T, Vignal-Clermont C, Sergott RC, Rudolph G, La Morgia C, Karanjia R, Taiel M, Blouin L, Burguière P, Smits G, Chevalier C, Masonson H, Salerno Y, Katz B, Picaud S, Calkins DJ, **Sahel J.A.** Bilateral visual improvement with unilateral gene therapy injection for Leber hereditary optic neuropathy. *Sci Transl Med* 2020, Dec 9;12(573):eaaz7423.  
<https://pubmed.ncbi.nlm.nih.gov/33298565/>
- 13) Blaize K, Arcizet F, Gesnik M, Ahnine H, Ferrari U, Deffieux T, Pouget P, Chavane F, Fink M, **Sahel J.A.**, Tanter M, Picaud S. Functional ultrasound imaging of deep visual cortex in awake nonhuman primates. *Proc Natl Acad Sci U S A*. 2020 Jun 23;117(25):14453-14463.  
<https://pubmed.ncbi.nlm.nih.gov/32513717/>
- 14) **Sahel JA**, Grieve K, Pagot C, Authié C, Mohand-Said S, Paques M, Audo I, Becker K, Chaumet-Riffaud AE, Azoulay L, Gutman E, Léveillard T, Zeitz C, Picaud S, Dalkara D, Marazova K. Assessing photoreceptor status in retinal dystrophies: from high resolution imaging to functional vision. *Am J Ophthalmol*. 2021 May 14:S0002-9394(21)00212-9.  
<https://pubmed.ncbi.nlm.nih.gov/34000280/>
- 15) **Sahel J.A.**, Boulanger-Scemama E, Pagot C, Arleo A, Galluppi F, Martel JN, Esposti SD, Delaux A, de Saint Aubert JB, de Montleau C, Gutman E, Audo I, Duebel J, Picaud S, Dalkara D, Blouin L, Taiel M, Roska B. Partial recovery of visual function in a blind patient after optogenetic therapy. *Nat Med*. 2021 Jul;27(7):1223-1229.  
<https://pubmed.ncbi.nlm.nih.gov/34031601/>