


CURRICULUM VITAE
COMESP Spring sessions 2023

(4 pages maximum)



Structure and name of PI: Progressive Sensory Disorders, Pathophysiology and Therapy, by EL-AMRAOUi Aziz

LASTNAME, FIRSTNAME	ADDRESS	TEL, eMAIL	CURRENT POSITION	DATE (AGE) OF BIRTH - CITIZENSHIP
EL-AMRAOUi, Aziz	Institut de l'Audition, 63 rue de Charenton, F-75012, Paris	+33 (1) 76 53 50 64 aziz.el-amraoui@pasteur.fr	Associate Professor	26/01/1968 (55) FRENCH & MORROCAN
TRAINING (begin with bachelor's degree or other initial professional training, and include postgraduate training)				
INSTITUTION, PLACE, PI/mentor		DIPLOMA (if relevant)	YEAR(s)	THEME
University of Cadi Ayad, Marrakech, Maroc		B.Sc	1990	Biological science
University of Claude Bernard, Lyon-1, France		M. Sc.	1991	Neuroscience
University of Claude Bernard, Lyon-1, France		PhD	1995	Neuroscience
Sorbonnes Université, Paris, France		HDR	2004	Neuroscience
5 KEY WORDS summarizing your scientific activity				
Usher syndrome	Deafness & Blindness	Pathogenesis and therapy	Neuroscience	Rares Diseases
Number of years after the PhD:		28		
CAREER INTERRUPTION (sabbatical, maternity, parental leave, ...)		-		
2020. Professional experience. <i>Present in chronological order your professional experiences, concluding with your current position. Indicate the prizes and awards received as well as participation in scientific committees.</i>				
Positions: 1995-1996: Post-doctoral fellow, Institut Pasteur				
<ul style="list-style-type: none"> • 1997-2001: Research Assistant, Institut Pasteur • 2002-2007: Assistant Professor, Institut Pasteur • 2008-present: Associate Professor, Institut Pasteur • 2015: Associate Professor, Group leader, « Sensory Cilia and Diseases », Institut Pasteur • 2019: Associate Professor, head of Unit « Progressive Sensory Disorders », Institut Pasteur 				
Honors: 1990-1994: Postgraduate Scholarship by the Moroccan Ministry of Education and Research (Major of Master 1 promotion 1991, Univ Cadi Ayad)				
<ul style="list-style-type: none"> • 1995-1997: Fellowship by FAUN Stiftung (Suchert Foundation) (1995-1997) • 2005: Jean Valade prize (Fondation de France), Physiopathology and molecular mechanisms defective in the Usher syndrome (deafness-blindness in humans) • 2006: Fond MAZET-DANET (Fondation de France): Physiopathology of Hereditary Deafness • 2012-present: Nominated at the executive committee of the foundation "Voir et Entendre" • 2016-present: Nominated at the Scientific Council of the association APE.MEG, Paris Universités • 2018-present: Elected member of CORLAS (Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum, created in 1926) • 2017-2019: Chair of Excellence "Charles Nicolle, Institut Pasteur" (<i>deaf-blindness in the Usher syndrome</i>) • 2020-present: Member of intl. Association for Research in Otorhinolaryngology (ARO) Travel Award committee. 				
Editorial boards & professional societies membership:				
Member Editorial Board J. Clin. Medicine (2022), Regular memberships: SFN, ARO, SBCF (2000-)				
Activities at the Institut Pasteur:				
<ul style="list-style-type: none"> • 2007-2011: Elected member of the « COMESP » (internal evaluation of research "individuals") • 2014-2020: Elected member of the Institut Pasteur General Assembly « Assemblée des 100 » • 2015-2023: Elected & re-elected member at the Institut Pasteur Scientific Council (four sessions/year) • 2011-present: Nominated member of commission de bourses (Howard & Cantarini, Roux). • 2015-present: Chair (2015) and consulting member (since 2016) of IP graduation ceremony committee 				
Participation in the life of the Institut Pasteur campus:				
2006 - 2017: Member of the Board of Neuroscience Department (2006-2017)				
2006 - 2014: Member & President elected (2011-2014) of the "site committee" of the Fernbach building				
2015 - 2019: Elected member of the Pasteur Scientific Council, and acting as secretary of the bureau (2017-2018)				
2020 - 2023: Re-elected (2019) member of the Institut Pasteur Scientific Council.				
2020, & 2021: PTR (Transversal Res. Programs) Evaluation committee				
2020: International PhD PPU program Selection committee				

2021, & 2023: International PhD PPU program Admission committee
2022: Director of international Pasteur – OMI (Open Medical institute) course, Salzburg (March 13-19, 2022)
https://www.pasteur.fr/en/education/programs-and-courses/pasteur-courses?id_cours=32171
2022: Podcast “la santé auditive” for IP fundraising, « L’espoir en héritage ».  <https://lnkd.in/enz5gqyY>

B. Selected list of publications in peer-reviewed journals (maximum 20, in chronological order and in NIH format).

ORCID number: <https://orcid.org/0000-0003-2692-4984> IDHAL number: **aziz-el-amraoui**

> **85 publications (GS: H-index: 46, sum of cites: ~ 8570)**

Complete List of Published Worked (full length Articles) can be found at: https://www.researchgate.net/profile/Aziz_El-Amraoui

B.1 Publications in peer-reviewed journals (NIH format), preprints (e.g. BioRxiv), patents, software ...

As PhD (2 out of 5):

1. **El-Amraoui A** and Dubois PM. Experimental evidence for the early commitment of the presumptive adenohypophysis. *Neuroendocrinology*, **1993**; 58:609-615, <https://www.karger.com/Article/Abstract/126599>
2. **El-Amraoui A** and Dubois PM. Experimental evidence for an early commitment of gonadotropin-releasing hormone neurons, with special regard to their origin from the ectoderm of nasal cavity presumptive territory. *Neuroendocrinology*, **1993**; 57:991-1002. <https://pubmed.ncbi.nlm.nih.gov/8232774/>

As Post-Doc (1995-1997), Assistant Professor (1998-2008) *Co-first or senior and corresponding authorships.

3. Kussel-Andermann P*, **El-Amraoui A***, Safieddine S, Nouaille S, Perfettini I, Lecuit M, Cossart P, Wolfrum U, and Petit C. Vezatin, a novel transmembrane protein, bridges myosin VIIA to the cadherin-catenins complex. *EMBO J.*, **2000**; 19:6020-6029. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC305826/> *co-first authors
4. **El-Amraoui A**, Schonn JS, Kussel-Andermann P, Blanchard S, Desnos C, Henry JP, Wolfrum U, Darchen F, and Petit C. MyRIP, a novel Rab effector, enables myosin VIIa recruitment to retinal melanosomes. *EMBO Rep.*, **2002**; 3:463-470. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1084103/>
5. Etournay R, Zwaenepoel J, Perfettini I, Legrain P, Petit C, and **El-Amraoui A***. Shroom2, a myosin-VIIa- and actin-binding protein, directly interacts with ZO-1 at tight junctions. *J. Cell Sci.*, **2007**; 120:2838-2850. [pasteur-01545829v1](https://www.pasteur.fr/publication/01545829v1)
6. Legendre, K., Safieddine, S., Kussel-Andermann, P., Petit, C. and **El-Amraoui, A***. α III-spectrin bridges the plasma membrane and cortical lattice in the lateral wall of the auditory outer hair cells. *J. Cell Sci.*, **2008**; 121:3347-3356. <https://jcs.biologists.org/content/121/20/3347> # Cover & Highlight in the same issue.

As Associate Professor (2008-present): *Co-senior and corresponding authorships.

7. Sahly I, Dufour E, Schietroma C, Michel V, Bahloul A, Perfettini I, Pepermans E, Estivalet A, Carette D, Aghaie A, ...-> Sahel JA, **El-Amraoui A***, and Petit C*. (2012) Localization of Usher 1 proteins to the photoreceptor calyceal processes, which are absent from mice. *J Cell Biol.*, **2012**; 199: 381-399. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3471240/>
8. Papal S, Cortese M, Legendre K, Sorusch N, Dragavon J, Sahly I, Shorte S, Wolfrum U, Petit C, **El-Amraoui A**. The giant spectrin β V couples the molecular motors to phototransduction and Usher syndrome type I proteins along their trafficking route. *Hum. Mol. Genet.*, **2013**; 22: 3773-3788. <https://academic.oup.com/hmg/article/22/18/3773/659081>.
9. Kamiya K, Michel V, Giraudet F, Riederer B, Foucher I, Papal S, Perfettini I, Le Gal S, Verpy E, Xia W, Seidler U, Georgescu MM, Avan P*, **El-Amraoui A***, Petit C*. An unusually powerful mode of low-frequency sound interference due to defective hair bundles of the auditory outer hair cells. *Proc Natl Acad Sci USA*. **2014**; Jun 11. pii: 201405322. *Co-senior authorships. Press release <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4078795/>
10. Cortese M, Papal S, Pisciottano F, Elgoyhen AB, Hardelin J.-P, Petit C, Franchini LF*, & **El-Amraoui A***. (2017) Spectrin β V adaptive mutations and changes in subcellular location correlate with emergence of hair cell electromotility in mammals. *Proc. Natl Acad. Sci. USA*. 114(8):2054-2059. <http://www.pnas.org/content/114/8/2054.long>
11. Schietroma S, Parain K, Estivalet A, Aghaie A, Boutet de Monvel J, Picaud S, Sahel JA, Perron M, **EL-AMRAOUI A*** & Petit C*. (2017) Shaping of the photoreceptor outer segment by the calyceal processes of the inner segment. *J. Cell Biol.* 216, 1849-1864. F1000F1000 Med “Recommended” selection <http://jcb.rupress.org/content/216/6/1849.long>
12. Michel V, Booth K, Patni P, Cortese M, Azaiez H, Bahloul A, Kahrizi K, Labbé M, Emptoz A, Lelli A, Dégardin J, Dupont T, Aghaie A, Oficyalska D, Picaud S, Najmabadi H, Smith RJ, Bowl MR, Brown SDM, Avan P, Petit C, **EL-AMRAOUI A*** (2017) CIB2, defective is isolated deafness, is key to auditory hair cells mechanotransduction and survival. *EMBO Mol. Med.* 9:1711-1731. <http://embomolmed.embopress.org/content/9/12/1711.long>
13. Dulon D*, Papal S, Patni P, Cortese M, Vincent P, Tertrais M, Emptoz A, Tlili A, Bouleau Y, Michel V, Delmaghani D, Aghaie A, Pepermans E, Allegria-Prevot O, Akil O, Lustig L, Avan P, Safieddine S, Petit C*, **EL-AMRAOUI A***. (2018) Clarin-1 defect results in a rescuable auditory hair cell synaptopathy. *J. Clin. Invest.* 128(8):3382-3401. [pasteur-01858480v1](https://www.pasteur.fr/publication/01858480v1)
14. Dunbar L, Patni P, Aguilar C, Mburu P, Corns L, Wells H, Delmaghani S, .. <10 authors>., Lelli A, Codner G, .. <10 authors>.. Marcotti W, **EL-AMRAOUI A***, Bowl M* (2019) Clarin-2 is essential for hearing by maintaining stereocilia integrity and function. *EMBO Mol. Med.* 11(9):e10288. doi: 10.15252/emmm.201910288. # cover article, [pasteur-03261798v1](https://www.pasteur.fr/publication/03261798v1)

B.2 Others (Reviews, book chapters) * Corresponding author

15. Dubois PM*, and **El-Amraoui A***. The embryology of the pituitary gland. *Trends in Endocrinology and Metabolism*, **1995**; 6:1-7. <https://www.cell.com/action/showPdf?pii=1043-2760%2894%2900090-Q>

16. **El-Amraoui A***, and Petit C*. Usher I syndrome: unravelling the mechanisms that underlie the cohesion of the growing hair bundle in inner ear sensory cells. *J. Cell Sci.*, **2005**; 118:4593-4603. <https://jcs.biologists.org/content/118/20/4593>
17. Bonnet, C. and **El-Amraoui, A***. Usher syndrome (sensorineural deafness and retinitis pigmentosa): pathogenesis, molecular diagnosis and therapeutic approaches. *Curr. Opin. Neurol.*, **2012**; 25: 42-49.
18. Delmaghani S* and **El-Amraoui, A***. The inner ear gene therapies take off: current promises and future challenges. *J. Clin. Medicine*, **2020**; 9, 2309, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7408650/>
19. Geleoc G* & **El-Amraoui A***. Disease mechanisms & gene therapy for Usher syndrome. *Hear. Res.* **2020**; Mar 4:107932. <https://www.sciencedirect.com/science/article/pii/S0378595519304733>
20. **Delmaghani S, El-Amraoui A**. The genetic and phenotypic landscapes of Usher syndrome: from disease mechanisms to a new classification. *Hum Genet.* 2022 Apr;141(3-4):709-735. doi: 10.1007/s00439-022-02448-7. [pasteur-03916414v1](https://doi.org/10.1007/s00439-022-02448-7)

C. Selected meetings (oral presentations, posters—"not included"): **> 50 contributed talks/presentations since 2017, as selected or invited speaker at international (25), national (23) and institutional meetings (6).**

- 2023 (3 out of 8 planned):** - NIH NIDCD DIR Seminar Series; Gene therapies for balance and hearing loss. Feb 9, Bethesda, **USA**
- European Society of Human Genetics, ESHG 2023 Conference, June 10-13, Glasgow, Scotland, **United Kingdom**
 - European Symposium on Pediatric Cochlear Implantation (ESPCI), May 30-June 3, Rotterdam, **Netherlands**.
- 2022 (4 out of 8)** - Retinal degeneration workshop, Dec 5, Liblice Castle, Liblice, **Czech Republic**
- Inner Ear Biology Workshop, Postnatal and progressive hearing and balance impairments, Sept 10-13, Trieste, **Italy**
 - SIO 55th meeting Société Internationale d'Otoneurologie (SIO), May 17, Espace Saint-Martin, Paris, **France**
 - 4th SENSGENE ANNUAL DAY 2022, May 16, Institut Imagine, F-75015, Paris, **France**
- 2021 (4 out of 12)** - Usher 1B workshop, September 9-10, Grand Hyatt DFW, Dallas, **USA**
- SFORL 124^{ème} meeting société Française d'audiologie), Palais des congrès, Oct 2, Paris, **France**
 - Navigating the Grant Landscape, SpARO mentoring session; 43th ARO meeting (All Virtual), **USA**
 - Rencontres Auvergne Rhône-Alpes / Audika workshop, 5 Juin 2021 ; La Charpiniere, Saint-Galmier, **France**
- 2020 (3 out of 6)** - CSIR-CCMB Institut Pasteur workshop, Jan 20-21, 2020, HyderAbad, **INDIA**
- Service d'ORL, chirurgie cervico-faciale et d'audiophonologie, Sept 8, 2020 ; Hopital Edouard Herriot, Lyon, **France**
 - Club-Ageing, Sept 21, 2020, Centre François Jacob, Institut Pasteur, Paris, France (présentiel & virtual)
- 2019 (5 out of 13)** - 15th SFA meeting (Société Française d'Audiologie); 13-14 Déc, Lyon, **France**
- French Brazilian Symposium on Hearing: Genetics, Cognition and Technology, Nov 28-29, Belo Horizonte **Brazil**
 - CONICET (Consejo Nacional de Investigaciones Científicas y Técnicas), Nov 26, Buenos Aires, **Argentina**
 - Belgium Royal Society of otorhinolaryngology Annual meeting, Nov 22-23, Louvain-la-Neuve, **Belgium**
 - CORLAS annual meeting <https://www.corlas2019.org/>, August 25-28, Bern, **Switzerland**
- 2018 (3 out of 7)** - Medical Research Council (MRC) Harwell October 30, **United Kingdom**
- 4th International Symposium on Usher syndrome, Atrium Hotel, Mainz July 20, **Germany**
 - 9th Int. Workshop « Exploring Cochleovestibular Dysfunctions ». Clermont-Ferrand March 20-21, **France**
- 2017 (3 out of 7)** - 1st International symposium of inner ear therapies (ISIET1), Marrakech November 3-5, **Morocco**
- 39th Association for Research in Otolaryngology (ARO), "Introduction award of Merit ceremony", Feb 23, Baltimore, **USA**

D. Grants for current, ongoing or completed (within the last 5years) **research projects.**

Funding source	Start End date	Grant Acronym: title of project	PI (AE) role in the project	Allocated to PI' lab (Total amount)
Grant Applications				
PIA-RHU (ANR)	2015-2021	LIGHT4DEAF, "The enlightenment of deafness: holistic approach of Usher syndrome"	AE : PI, Co-leader WP3 & WP4). Coordination by JA Sahel, Vision Institute	1 M€ (3.5 M€ for IP; Total = 9.5 M€)
Fondation maladies Rares	2018-2020	Usher modelling in pig	AE : PI Coordinator	100 k€
LHW-Stiftung	2019-2021	UsherVision: Combatting blindness in Usher syndrome	AE : PI Co-coordinator	320 k€ (Total = 640 k€)
ANR 2 partners	2017-2023	HearInNoise, Ush3a progressive sensory impairments	AE : PI Coordinator Partner : P Avan	324 k€ (Total = 420 k€)
Fondation voir et Entendre	2021-2024	Labex-lifesenses : 56 & NanoUsher 1B : 35 K	AE : PI recipient	100 k€
LHW-Stiftung	2022-2025	UsherVision: Combatting blindness in Usher syndrome	AE : PI Co-coordinator	320 k€ (Total = 640 k€)
EuroNanoMed III, (ANR) AE + 4 Intl. partners	2022-2024	NanoEar: DX243-conjugated nanoparticles as a neuroprotective for hearing disorders	AE : PI Sole French partner	202 k€ (Total 630 k€)
Fighting Blindness foundation AE + 4 IDV partners	2022-2027	Fighting USH1B blindness	AE : PI (Coordinator leader for project 2)	684 k€/ 700 k\$ (2.2 M€/2,317 k\$)
Fondation pour l'Audition	2019-2024	Progressive Sensory Disorders, start. grant	AE : PI Coordinator	500 k€

