

Supervision Form

Subject No. (to be completed by the ED):	FUNDING:	<input checked="" type="checkbox"/> Requested <input type="checkbox"/> Acquired	Funding origin:
--	----------	--	-----------------

Thesis title:
Using three dimensional human retinal organoids in cocultures to model the visual cycle and establish a platform to evaluate novel retinal gene therapies

Laboratory (UMR, EA): U1089 TaRGeT Laboratory	Director of the Laboratory: Oumeya Adjali
Host team: U1089-Retina	Director of the team: Oumeya Adjali
Number of HDR in the host team : 5 (unit) 2 (team)	Number of researchers and engineers in the lab = 27 4 researchers, 2 post-doc and 1 engineer in the retina research group
Thesis director: Oumeya Adjali	Phone number: + 33 2 28 08 04 22 Email address : oumeya.adjali@univ-nantes.fr
Thesis co-Director (if applicable): /	Phone number: Email address:
Thesis co-supervisor (if applicable): Therese Cronin	Phone number: 33 2 28 08 04 67 Email address: therese.cronin@univ-nantes.fr

Five **major publications** of the thesis supervisor or co-supervisor (or host team or unit if necessary) (last 4 years) :

Mével M, Pichard V, Bouzelha M, Alvarez-Dorta D, Lalys PA, Provost N, Allais M, Mendes A, Landagaray E, Ducloyer JB, Toublanc E, Galy A, Brument N, Lefevre GM, Gouin SG, Isiegas C, Le Meur G, Cronin T, Le Guiner C, Weber M, Moullier P, Ayuso E, Deniaud D, Adjali O. Mannose-coupled AAV2: A second-generation AAV vector for increased retinal gene therapy efficiency. Mol Ther Methods Clin Dev. 2024 Jan 17;32(1):101187.

Masri S, Carré L, Jaulin N, Vandamme C, Couzinié C, Guy-Duché A, Dupont JB, Pereira A, Charpentier E, David L, Gernoux G, Guilbaud M, Adjali O. Transcriptomic Analysis Reveals the Inability of Recombinant AAV8 to Activate Human Monocyte-Derived Dendritic Cells. Int J Mol Sci. 2023 Jun 21;24(13):10447.

Gernoux G, Guilbaud M, Devaux M, Journou M, Pichard V, Jaulin N, Léger A, Le Duff J, Deschamps JY, Le Guiner C, Moullier P, Chere Y, Adjali O. AAV8 locoregional delivery induces long-term expression of an immunogenic transgene in macaques despite persisting local inflammation. Mol Ther Methods Clin Dev. 2021 Feb 6;20:660-674.

Varin J, Morival C, Maillard N, Adjali O, Cronin T. Risk Mitigation of Immunogenicity: A Key to Personalized Retinal Gene Therapy. Int J Mol Sci. 2021 Nov 26;22(23):12818.

Cronin T, Croyal M, Provost N, Ducloyer JB, Mendes-Madeira A, Libeau L, Morival C, Toublanc E, Audrain C, Isiegas C, Pichard V, Adjali O. Effect of retinol dehydrogenase gene transfer in a novel rat model of Stargardt disease. FASEB J. 2021 Nov;35(11):e21934.

Theses in progress by the supervising team (director, co-director):

Name of the PhD student	Start and planned end of thesis	Funding origin	Thesis director	Co-director or co-supervisor
Morival Clément	01/09/2021 and 01/09/2025	FRM	Oumeya Adjali	Therese Cronin
Avenel Alan	10/2021-12/2024* Soutenance avant Décembre 2024	INSERM-Région Pays de la Loire	Oumeya Adjali	Gwladys Gernoux
Carré Laure	01/2023-12/2025	Bourse ED (MESR)	Oumeya Adjali	Mickaël Guilbaud

Future of the graduated PhsD originated from the supervising or host team (last 5 years) :

Name of the PhD student	Start and end of thesis	Funding origin	Thesis director	Current job, and place	Type of funding (post-doc, cdd, cdi)
Masri Samer	2018-2021	Contrat doctoral de l'Université de Nantes	Dr Oumeya Adjali	Field Application Scientist Chemometec, Nantes	CDI
Journou Lalo	2017-2021	Région Pays de la Loire	Dr Oumeya ADJALI	Post-doc, UCL, Londres, UK	Post-doc

Xicluna Rebecca	2016-2019	Fonds propres U1089	Dr Oumeya ADJALI	Post-doc, Roche, Bâle, Suisse	Post-doc
Vandamme Céline	2012-2016	MRT+FRM 4 ^{ème} année	Dr Oumeya ADJALI	Post-Doc, Finlande puis Scientist, Charles River, Evreux	CDI

List of publications resulting from these theses :

Xicluna R, Avenel A, Vandamme C, Devaux M, Jaulin N, Couzinié C, Le Duff J, Charrier A, Guilbaud M, Adjali O, Gernoux G. Prevalence study of cellular capsid-specific immune responses to AAV2, 4, 5, 8, 9 and rh10 in healthy donors. BioRxiv preprint, 2023 DOI :<https://doi.org/10.1101/2023.12.20.570598>

Masri S, Carré L, Jaulin N, Vandamme C, Couzinié C, Guy-Duché A, Dupont JB, Pereira A, Charpentier E, David L, Gernoux G, Guilbaud M, Adjali O. Transcriptomic Analysis Reveals the Inability of Recombinant AAV8 to Activate Human Monocyte-Derived Dendritic Cells. Int J Mol Sci. 2023 Jun 21;24(13):10447.

Vandamme C, Xicluna R, Hesnard L, Devaux M, Jaulin N, Guilbaud M, Le Duff J, Couzinié C, Moullier P, Saulquin X, Adjali O. Tetramer-Based Enrichment of Preexisting Anti-AAV8 CD8⁺ T Cells in Human Donors Allows the Detection of a TEMRA Subpopulation. Front Immunol. 2020 Jan 21;10:3110.

Moreau A, Vandamme C, Segovia M, Devaux M, Guilbaud M, Tilly G, Jaulin N, Le Duff J, Cherel Y, Deschamps JY, Anegon I, Moullier P, Cuturi MC, Adjali O. Generation and in vivo evaluation of IL10-treated dendritic cells in a nonhuman primate model of AAV-based gene transfer. Mol Ther Methods Clin Dev. 2014 Jul 23;1:14028.

To be completed by the Laboratory Director (UMR. EA)

Number of theses in progress in the Unit : 9	Number of HDR in the Unit : 5
Number of researchers, clinicians and research engineers : 27	

Name, signature of the Director of the Laboratory

Name, signature of the Director of the host team

Oumeya ADJALI

Oumeya ADJALI


