

Second report on networking, public engagement and Communication activities

Deliverable 11.4

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Expected Submission Date: 30/06/2020
Actual Submission Date: [12/01/2021]

Public (PU)	X
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Executive summary

The aim of the Deliverable 11.8 “Second report on networking, public engagement and communication activities” is to describe the dissemination and communication activities of the UPGRADE partners performed during the first year.

In the second 18 Months of the project (1st January 2020 – 31st December 2020), UPGRADE dissemination and communication activities are included in the “steady phase”. This phase has the objective of promoting a deeper understanding of new knowledge and results. During this central phase, as research activities progress further, UPGRADE Consortium produces reports, datasets, publications, presents the results to the scientific community and organizes special sessions within international conference and summer schools to promote UPGRADE findings.

More information can be also found in the Deliverable 11.1 “Dissemination Plan”, available at the link <http://www.upgrade-h2020.eu/wp-content/uploads/2019/12/UPGRADE-D11.1-with-annex-SUBMITTED.pdf>

1 Dissemination objectives and tools

1.1 UPGRADE Dissemination Objectives

The main goal of WP11 is to ensure the interaction with stakeholders and the dissemination of the results of the project.

More in details, the specific objectives of this WP are:

- 1) create a network of researchers working in genome editing, vector delivery, immune evasion related to vector applying these therapies in models of muscle, hematopoietic, retinal and liver diseases, by means of proactive set of actions to transfer the scientific knowledge;
- 2) ensure the use of the technology platform to produce tailored genome editing toolboxes, through scientific publications;
- 3) ensure the effective knowledge transfer to early-career researchers, especially during the fourth and last year of the project, when two workshops and summer schools will be organized;
- 4) disseminate the results of the project to the largest audience possible (both specialists and non-specialists), including industry, decision makers (from the local to the EU Commission and government level), and citizens.

This deliverable represents an annual report on the dissemination and communication activities carried out by the UPGRADE Consortium. In the second year of project's implementation, the main objectives of WP11 were the following:

- Promoting UPGRADE results in scientific fora
- Participation in events at national and international level to raise awareness and visibility of the project
- Organization of local institutional events to promote the project

UPGRADE members focused on the publication of major UPGRADE achievements (see list of publications in the section 2.1). We also have made important efforts to disseminate and transfer all the results, participating to events, even during the COVID pandemic (see list of events in the section 2.2). However, the dissemination and communication activities were inevitably affected by the global pandemic.

1.2 UPGRADE Communication Activities

1.2.1 Web presence

UPGRADE project's accomplishments have been promoted through social media (Twitter, via the TIGEM Twitter account https://twitter.com/tigem_telethon) and partners' institute accounts (e.g., @BuchholzLab_TUD, @UniVNantes, @Inserm).

1.2.2 Face to face events

On an annual basis, FTELE-TIGEM welcomes local pupils and teachers to their facility, to learn more about the Telethon mission and the ways in which we try to fulfill it. Visitors are given basic mini lessons related to biology and research projects and then are invited to visit laboratories to try to use some simple techniques and experience the excitement of seeing experimental demonstrations. UPGRADE has been presented during the Open Day on 21st February 2020 (pictures below), with participation of two local schools.



2 Dissemination activities

2.1 Scientific publications

In the period covered by this deliverable (from January 2020 to the end of December 2020, 13 scientific papers have been published by the UPGRADE research partners (in chronological order).

All publications are available in open access (green or gold) in Zenodo at the link

<https://zenodo.org/communities/upgrade-h2020-project/>

An updated list of scientific publications is also available on the UPGRADE website:

<https://www.upgrade-h2020.eu/publications/>

Publications have been featured on Twitter.

Title of publication	Authors	Journal	Zenodo link
*Understanding muscle regenerative decline with aging: new approaches to bring back youthfulness to aged stem cells	Muñoz-Cánoves, Pura; Neves, Joana; Sousa-Victor, Pedro;	The FEBS Journal	zenodo.org/record/5603270#.Yd6wgy1h2i4
*Has retinal gene therapy come of age? From bench to bedside and back to bench	Trapani, Ivana; Auricchio, Alberto;	Human Molecular Genetics	zenodo.org/record/5752192#.Yd6wMS1h2i4
Sestrin prevents atrophy of disused and aging muscles by integrating anabolic and catabolic signals	Segalés, Jessica; Perdiguero, Eusebio; Serrano, Antonio L.; Sousa-Victor, Pedro;; Ortet, Laura; Jardí, Mercè; Budanov, Andrei V.; Garcia-Prat, Laura; Sandri, Marco; Thomson, David M.; Michael, Karin; Lee, Jun Hee; Muñoz-Cánoves, Pura	Nature Communications	zenodo.org/record/5584715#.Yd6hNeC1h2Cc
Delivery of Cas9/sgRNA Ribonucleoprotein Complexes via Hydroxystearyl Oligoamino Amides	Kuhn, Jasmin; Lin, Yi; Levacic, Ana Krhac; Danaf, Nader Al; Peng, Lun; Höhn, Miriam; Lamb, Don C.; Wagner, Ernst; Lächelt, Ulrich;	Bioconjugate Chemistry	zenodo.org/record/5751997
Cripto shapes macrophage plasticity and restricts EndMT in injured and diseased skeletal muscle	Iavarone Francesco; Guardiola Ombretta; Scagliola Alessandra; Andolfi Gennaro; Esposito Federica; Serrano Antonio; Perdiguero Eusebio; Brunelli Silvia; Muñoz-Cánoves Pura; Minchiotti Gabriella;	EMBO Reports	zenodo.org/record/5584584#.Yd6hOMy1h2Cc
	Freitag, Franziska; Wagner, Ernst;	Advanced Drug Delivery Reviews	zenodo.org/record/5752082

Title of publication	Authors	Journal	Zenodo link
Optimizing synthetic nucleic acid and protein nanocarriers: The chemical evolution approach			
Muscle stem cell aging: identifying ways to induce tissue rejuvenation	Sousa-Victor, Pedro; Neves, Joana; Muñoz-Cánoves, Pura	Mechanisms of Ageing and Development	zenodo.org/record/5751928#.Yd_hO8i1h2Cc
Efficient Generation and Correction of Mutations in Human iPS Cells Utilizing mRNAs of CRISPR Base Editors and Prime Editors	Sürün, Duran; Schneider, Aksana; Mircetic, Jovan; Neumann, Katrin; Lansing, Felix; Paszkowski-Rogacz, Maciej; Hänchen, Vanessa; Lee-Kirsch, Min Ae; Buchholz, Frank	Genes	zenodo.org/record/5751965#.Yd_hPji1h2Cc
Attenuated Epigenetic Suppression of Muscle Stem Cell Necroptosis Is Required for Efficient Regeneration of Dystrophic Muscles	Sreenivasan, Krishnamoorthy; Ianni, Alessandro; Künne, Carsten; Strilic, Boris; Günther, Stefan; Perdiguero, Eusebio; Krüger, Marcus; Spuler, Simone; Offermanns, Stefan; Gómez-del Arco, Pablo; Redondo, Juan Miguel; Muñoz-Canoves, Pura; Kim, Johnny; Braun, Thomas	Cell Reports	zenodo.org/record/5603694#.Yd_hPUi1h2Cc
Gene Therapy for Cystic Fibrosis: Progress and Challenges of Genome Editing	Maule G., Arosio D., Cereseto A.	International Journal of Molecular Science	zenodo.org/record/5833994#.Yd_8fy1h0I
Nearest-neighbor amino acids of specificity-determining residues influence the activity of engineered Cre-type recombinases	Soni, Anjali; Augsburg, Martina; Buchholz, Frank; Pisabarro, M. Teresa	Scientific Reports	zenodo.org/record/5752245#.Yd_hPey1h2Cc
FoxO maintains a genuine muscle stem-cell quiescent state until geriatric age	García-Prat, Laura; Perdiguero, Eusebio; Alonso-Martín, Sonia; Dell'Orso, Stefania; Ravichandran, Srikanth; Brooks, Stephen R.; Juan, Aster H.; Campanario, Silvia; Jiang, Kan; Hong, Xiaotong; Ortet, Laura; Ruiz-Bonilla, Vanessa; Flández, Marta;	Nature Cell Biology	zenodo.org/record/5844632

Title of publication	Authors	Journal	Zenodo link
	Moiseeva, Victoria; Rebollo, Elena; Jardí, Mercè; Sun, Hong-Wei; Musarò, Antonio; Sandri, Marco; del Sol, Antonio; Sartorelli, Vittorio; Muñoz-Cánoves, Pura		
<i>In Vivo</i> Transcriptomic Profiling using Cell Encapsulation Identifies Effector Pathways of Systemic Aging	Mashinchian, Omid; Hong, Xiaotong; Migliavacca, Eugenia; Boss, Christophe; De Franceschi, Filippo; Michaud, Joris; Le Moal, Emmeran; Collettere-Tremblay, Jasmin; Isern, Joan; Metairon, Sylviane; Raymond, Frederic; Descombes, Patrick; Bouche, Nicolas; Muñoz-Cánoves, Pura; Feige, Jerome N.; Bentzinger, C. Florian	BioRxiv	zenodo.org/record/5836936#.Yd64nC1h2i4
A Network of Macrophages Supports Mitochondrial Homeostasis in the Heart	Nicolás-Ávila, José Ángel, Lechuga-Vieco, Ana Victoria, Esteban-Martínez, Lorena, Sánchez-Díaz, María, Díaz-García, Elena, Santiago, Demetrio J., Rubio-Ponce, Andrea, LiangYao Li, Jackson, Balachander, Akhila, Quintana, Juan A., Martínez-de-Mena, Raquel, Castejón-Vega, Beatriz, Pun-García, Andrés, Través, Paqui G., Bonzón-Kulichenko, Elena, García-Marqués, Fernando, Cussó, Lorena, A-Gonzalez, Noelia, González-Guerra, Andrés, Roche-Molina, Marta, Martín-Salamanca, Sandra, Crainiciuc, Georgiana, Guzmán, Gabriela, Larrazabal, Jagoba, Herrero-Galán, Elías, Alegre-Cebollada, Jorge, Lemke, Greg, Rothlin, Carla V., Jiménez-Borreguero, Luis Jesús, Reyes, Guillermo,	Cell	zenodo.org/record/5840405#.Yd7c2i1h2i4

Title of publication	Authors	Journal	Zenodo link
	Castrillo, Antonio, Desco, Manuel, Muñoz-Cánoves, Pura, Ibanez, Borja, Torres, Miguel, Guan Ng, Lai, Priori, Silvia G., Bueno, Héctor, Vázquez, Jesús, Cordero, Mario D., Bernal, Juan A., Enríquez, José Antonio, Hidalgo, Andrés		
Sox17 Controls Emergence and Remodeling of Nestin-Expressing Coronary Vessels	González-Hernández, Sara; Gómez, Manuel J; Sánchez-Cabo, Fátima; Méndez-Ferrer, Simón; Muñoz-Cánoves, Pura; Isern, Joan	Circulation Research	zenodo.org/record/5844849

* Papers from 2019 are included in the table as they weren't online at the moment of the preparation of the previous dissemination report.

2.2 Participation in scientific events

Event Name	Participant	Title of the presentation	Date dd/mm/yy	Place	Audience	WP(s)
ASGCT 2020	TIGEM- Manel Llado	AAV-mediated Homology- Independent Targeted Integration in Newborn Hepatocytes Corrects Mucopolysaccharidosis type VI	12- 15/05/2020	Online	Scientific Community	WPs 2,8,9
LMU Faculty for Chemistry and Pharmacy	LMU Munich, Ulrich Lächelt	(Metall-)Organische Nanopharmazeutika als Wirkstofftransporter über Zell-Barrieren	01/09/2020	Online	Scientific Community	WP4
CRC 1278 PolyTarget annual conference	LMU Munich, Ernst Wagner	Chemical evolution of peptide-like carriers for nucleic acid delivery	7- 8/09/2020	Online	Scientific Community	WP4
WBC 2020	LMU Munich, Ernst Wagner	Chemical evolution of nucleic acid transfection carriers	18/10/2020	Online	Scientific Community	WP4
NextGen Omics UK	UNITN - Anna Cereseto	Development of Advanced Cas Variants Using a yeast Platform	4- 6/11/2020	Online	Scientific Community	WP1