Curriculum Vitae : Jean-Marc EGLY.

Education

PhDs in Chemistry (1970), in Biochemistry (1976), Strasbourg.

Graduated in Environmental Sciences (DES), (1972) Strasbourg.

Post.Doc (1977) Department of Biochemistry (Pr. J. Porath Uppsala, Sweden).

Professional experience:

Research Director, INSERM (U1258; Strasbourg)

Member of the Science Academy (2005)

Distinguished Prof. at the National Taiwan University (2016 - 2021)

EMBO Member (2002)

Prof. at the Ecole Supérieure de Biotechnologie de Strasbourg (1982-1993)

Expert in Molecular Biology, Protein Chemistry, Biotechnology; Design of 15 products for chromatography.

Author of 285 publications: Cell, Mol. Cell., Nature, Nat. Gen., Nat. Neuro., Nat. SMB., Science, EMBO, JBC.

Invited speaker, Keynotes at J. Monod, UCLA, Gordon, FEBS, IUB, Cold Spring Harbor and EMBO Meetings.

Scientific Boards:

- Oklahoma Medical Research Foundation (USA; 1996-00); Nation Research Agency against Aids (Paris, 1997-02); French Delegate Biology, Medicine and Health Program (E.E.C., Brussels 1997-01); National Sequencing Center GENOSCOPE (Evry, Fr.; President; 1997-01); NATO, Cooperative Life Science and Technology (Brussels, 1999-02); Fondation pour la Recherche Medicale (2000-03); Institut Curie (Paris, 1998-03); EUROGENTEC (Be., 2000-2010) ; Pharma-Mar (2007-), Inst. de Biol. Mole e Celular – IBMC (Porto, Portugal) .
- Scientific Advisor near the Life Science Dept. CEO of Commissariat at the Atomic Energy (2003-07).
- Editorial Board of EMBO, Protein Purification, Molecular Endocrinology, DNA repair, Transcription
- Member of EMBO (1997) and of the American Society for Biochemistry and Molecular Biology (ASBMB).
- Member of the Swiss National Foundation: Evaluation of all the 12 years grants since 2003 (Feb-Mai 2014)
-. Chairman of the Scientific Council of the Association de la Recherche contre le Cancer (2006-2012)
-. President of «Comité Atip/Avenir INSERM/CNRS» for recruiting high-level young investigators (2004-14)
-. Chairman of Scientific Council of the Inst.de Rech. Cancer de l'Appareil Dig.(2004-14)
-. Scientific Advisor near the Chairman of Inserm (2007-14)
-. Chairman of Scientific Council of Albert-Bonniot (Grenoble); Université de Toulouse
-. Member of the Parliamentary Office for Strategic & Technologic Projects Evaluation (Paris, 1998- 2016)
-. Member (9 members) of the Conseil de Prospective of the de French National Research Agency (2008-2016)

At the present

-. Scientific Advisory Boards at: Centre de Recherche sur le Cancer de Toulouse (CRCT) (2014-…) ; I; Institut Gustave Roussy (IGR), Villejuif,Fr (2016-…).

-. Chairman of SAB Institute for Research on Cancer and Ageing of Nice (IRCAN) (2010- …)

-. Member of the Scientific Council of Institut de Recherche sur le Developpement (IRD) (2017-2021)

-. Scientific Adviser of Ksilink, a company with expertise in personalized medicine and drugs evaluation

-. Grants with Korea NSF (2014-2021), Spain (Pharma-Mar 2020) and ARC (2016-2019).

-. **Mount Jade Scholar grant** from the MOST Taiwan (Oct 2018-Sept 2021)

Awards

- Chevalier de l'Ordre National du Mérite (1996); Officier de la Légion d'Honneur (2014).

- Tartois Award, Fondation pour la Recherche Médicale (1996).

- Europeen Award Jeanne Loubaresse-Institut Curie forAdvances in Cancer Research (1997).

- Descartes Research Award from the European Union (2000).

- AGF/Athena Award from the French Science Academy (2002).

- Grand Prix Institut National de la Santé et de la Recherche Medicale (INSERM) (2004).

- Member of the French Science Academy (2006).

- Duquesne Award from the Ligue nationale contre le Cancer de la ville de Paris (2009)

- Mitjaville Award from the French Académie Nationale de Médecine (2009)

- Grand Prix de la Fondation pour la Recherche Medicale (2012).

- European Research Council Advanced Grant Award: Top 5% (2009-1013).

- Chercheur Top 1% according to the web of knowledge (H index 77), 17,000 citations.

Selected publications between 1990 and 2016 (among 270)

1. TBP : Cavallini et al. , A yeast activity can substitute for the HeLa cell TATA box factor., **Nature** (1988) 334, 77-80. Cavalini et al., Cloning of the gene encoding the yeast protein BTF1Y, which can substitute for the human TATA box-binding factor **PNAS** (1989) 86, 9803-7.; Davison BL, Formation of stable preinitiation complexes between eukaryotic class B transcription factors and promoter sequences **Nature (**1983) 301, 680-6.

TFIIH :

2. Gerard, M., Fischer, L., Moncollin, V., Chipoulet and **Egly, J.M.** Purification and interaction properties of the human RNA polymerase B general transcription factor BTF2 (TFIIH). J. Biol. Chem. (1991) 266, 20940-20945.

3. Fisher, L., Gerard, M., Chalut, C., Lutz, Y., Humbert, S., Kanno, M., Chambon, P., and **Egly, J.M**. Cloning of the 62kD component of the basic transcription factor BTF2. **Science** (1992), 257, 1392-1395.

4. Lu,H., Zawel,L., Fisher,L., **Egly,J.M.** and Reinberg D. Human general transcription factor TFIIH phosphorylates the CTD-tail of RNA Polymerase II. **Nature** (1992), 358,641-645.

5. Schaeffer L., Roy R., Humbert S., Moncollin V., Vermeulen W., Hoeijmakers J.H.J., Chambon P. and **Egly J.M.** The basic transcription factor BTF2/TFIIH contains a helicase involved in both transcription and DNA repair. **Science** (1993), 260, 58-63. **(Science N&V : DNA repair : molecule of the year).**

6. Humbert S., van Vuuren H., Lutz Y., Hoeijmakers J.H.J., **Egly J.M.,** Moncollin V. Characterization of p44 and p34 subunits of the BTF2/TFIIH transcription repair factor. EMBO (1994), 13, 2393-2398.

7. Van Vuuren A.J., Vermeulen W., Ma L., Weeda G., Appeldorn E. Jaspers N.G.J. van der Eb A.J., Hoeijmakers J.H.J and Humbert S., Shaeffer L., **Egly J.M.** Correction of Xeroderma repair defect by basal transcription factor BTF2/TFIIH. EMBO (1994), 13, 1645-1653.

8. Schaeffer L., Moncollin V., Roy R., Staub A., Mezzina V., Sarazin A., Weeda G., Hoeijmakers J.H.J. and **Egly J.M.** The ERCC2/DNA repair protein is associated with the class II BTF2/TFIIH transcription factor. EMBO (1994), 13, 2388-2392.

9. Roy R., Adamczewski J.P., Seroz T., Vermeulen W., Tassan J.P. Schaeffer L., Nigg E.A., Hoeijmakers J.H.J. and **Egly J.M**. MO15 kinase involved in cell cycle regulation is part of TFIIH the transcription/DNA repair factor. Cell (1994), 79, 1-9.

10. Aboussekra A., Biggerstaff M., Shivji M., Vilpo J., Moncollin V., Podust V., Protic M., Hubsher U., **Egly J.M** and Wood R.D. Mammalian DNA nucleotide excision repair reconstituted with purified protein components. Cell (1995), 80, 859-868.

11. Adamczewski J.P., Rossignol M., Tassan J.P., Nigg E.A., Moncollin V. and **Egly J.M.** MAT1, cdk7 and cyclin H form a kinase complex which is UV light sensitive upon association with TFIIH. EMBO (1996), 15, 1877-1884.

12. Marinoni J.C., R. Roy , W. Vermeulen , P. Miniou , Y. Lutz, G. Weeda, T. Seroz, E. Viegas-Péquignot, J.H.J. Hoeijmakers and **J.M. Egly** Cloning and characterization of p52, the fifth subunit of the core of the transcription/DNA repair factor TFIIH. EMBO (1997), 16, 1093-1102.

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14 Rochette-Egly C., Adam S., Rossignol M., **Egly J.M.** and Chambon P. Stimulation of the activation function of RAR a through binding to the general transcription factor TFIIH and phosphorylation of cdk7. Cell (1997), 90, 97-107.

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29. Riedl Th., Hanaoka F. and **Egly J.M**. The comings and goings of nucleotide excision repair factors on damaged DNA, EMBO (2003), 22, 5293-5303.

30. Le May N., Dubaele S., Proietti de Santis L., Billecocq A., Bouloy M. and **Egly J.M**. TFIIH transcription factor, a target for the Rift Valley Hemorrhagic Fever Virus. **Cell,** (2004), 116, 541-550.
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33. Coin F., Auriol J., Tapias A., Clivio P., Vermeulen W. and **Egly J.M.** Phosphorylation of XPB as a switch to regulate TFIIH dependent DNA repair but not transcription. EMBO (2004), 23, 4835-46.

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36. Proietti-De-Santis L. Drané P. and **Egly J. M.** Cockayne syndrome B protein regulates the transcriptional program of a specific subset of genes. EMBO (2006), 25, 1915-1923.

37. Charlet-B. N., Feuerhahn S., Kong S. E., Ziserman H., Conaway J. W., Conaway R. and **Egly J. M**. RNA polymerase II bypass of oxidative DNA damage is regulated by transcription elongation factors. EMBO (2006), 25, 5481-91.

38. Ito S., Kuraoka I., Chymkowitch P., Compe E., Takedachi A., Ishigami C., Coin F., **Egly J.M.* and Tanaka K.** XPG is required for the integrity of TFIIH and transactivation besides nucleotide excision repair: Implications for Cockayne syndrome in XP-G/CS patients. Molecular Cell (2007), 26, 231-244. **Co-corresponding authors**

39. Coin F., Oksenych V. and **Egly J.M**. DNA repair defect in Xeroderma pigmentosum group B is generated by a deficient stimulation of XPB ATPase activity by the p52 subunit of TFIIH. Molecular Cell (2007), 26, 245-256.

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41. Mocquet V., Kropachev K., Kolbanovskiy M ., Kolbanovskiy A., Tapias A., Cai Y., Broyde S., Geacintov N.E. and **Egly J.M.** The human DNA repair factor XPC distinguishes stereoisomeric benzo(a)pyrenyl-DNA lesions. EMBO (2007), 26, 2923-32

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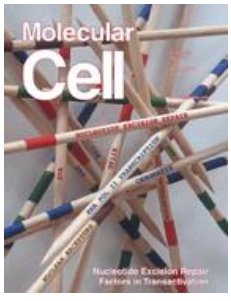
43. Coin F., Okshenych V., Mocquet V., Groh S., Blattner C., and **Egly JM.** Nucleotide excision repair driven by the dissociation of CAK from TFIIH ; Molecular Cell, (2008), 31, 9-20. **Co-corresponding authors**

44. Kainov D. E., Vitorino M., Cavarelli J., Poterszman A. and **Egly JM.** Structural basis for group A Trichothiodystrophy. Nat. Struc. Mol. Biol. (2008), 15, 980-984.

45. Oksenych V., Bernardes de Jesus B, Zhovmer A., **Egly J.M.*** and **Coin F.** Molecular insights into the recruitment of TFIIH to sites of DNA damage. EMBO (2009), 28, 2971-80. **Co corresponding authors**

46. Ueda T., Compe E., Catez Ph., Kraemer K.H. and **Egly JM.** Both XPD alleles contribute to the phenotype of compound heterozygote xeroderma pigmentosum patients. **J. Exp. Med**. (2009), 206, 3031-3046. ***(Preview: JEM)***

47. Le May N., Mota-Fernandes D., Vélez-Cruz R., Iltis I., Biard D. and **Egly J.M.** NER factors are recruited to the promoters of activated genes and help chromatin modifications for efficient transcription in the absence of genotoxic attack. **Molecular Cell** (2010), 38, 54-66.



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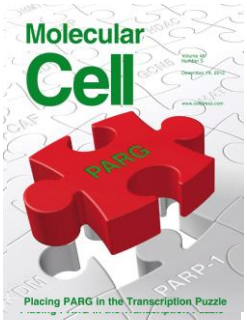
49. Feuerhahn S., Giraudon C, Martínez-Díez M., Bueren-Calabuig J. A., Galmarini C. M., Gago F. and **Egly J.M.** XPF-dependent DNA breaks and RNA polymerase II arrest induced by antitumor DNA interstrand crosslinking-mimetic tetrahydroisoquinoline alkaloids. Chemistry & Biology (2011), 18, 988- 99. **(Cover of the issue)**

50. Hashimoto S., Boissel S., Zarhate M., RIO M., Munnich A., **Egly J.M., Colleaux L**. MED23 Mediator subunit mutation links intellectual disability to dysregulation of immediate early gene expression. Science (2011), 333, 1161-63. **Co corresponding authors.**

Last Five Years publications

51. Compe E. and **Egly J.M**. TFIIH When Transcription met DNA repair. **Nat. Rev. Mol. Cell. Biol.** (2012), 13 343-354.

52. Le May N., Fradin D., Iltis I., Bougnères P. and **Egly J.M.** XPG and XPF endonucleases trigger chromatin looping and DNA demethylation for accurate expression of activated gene. Molecular Cell (2012), 47, 622-632. **Research Highlights: Nat. Rev. Genetics (2012), 13, 519.**



53. Le May N., Iltis I., Amé J.C., Zhovmer A., Biard D., **Egly J.M.**, Schreiber V. and Coin F.: Poly (ADP-Ribose) glycohydrolase regulates RAR mediated gene expression. **Molecular Cell** (2012), 48, 785-798 **(Cover of the issue).**

54.Vélez-Cruz R., Zadorin A., Coin F. and **Egly J.M**. Sirt1 regulates RNA synthesis after UV irradiation in TFIIH-mutated cells: new insight into the XP-D/CS cellular phenotype. **PNAS** (2013), 110, 814-815; E212-20.

55. Abdulrahman W., Iltis I., Radu L., Braun C., Maglott-Roth A., Giraudon Ch., **Egly J.M.** and Poterszman A. The ARCH domain of XPD, an anchoring platform for CAK that conditions TFIIH DNA repair and Transcription Activities. PNAS. (2013), 110, E633-42 **Co corresponding authors**

56. Oksenych V, Zhovmer A, Ziani S, Mari PO, Eberova J, Nardo T, Stefanini M, Giglia-Mari G, **Egly J.M.**, Coin F. Histone Methyltransferase DOT1L Drives Recovery of Gene Expression after a Genotoxic Attack. **PLoS Genet** (2013), 9, 7, e1003611.

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60. Kuper J., Braun C., Elias A., Michels G., Schmitt D.R., Poterszman A., **Egly* J.M.** and Kisker* C. The two faces of XPD during transcription initiation and Nucleotide Excision DNA repair **Plos Biol**. (2014), in press,***Co corresponding. author.**

61. Traboulsi H., Davoli D., Catez Ph., **Egly* J.M.** and Compe* Dynamic partnership between TFIIH, PGC-1 and SIRT1 is impaired in premature-ageing disease**. Plos Biol.** (2014), in press, ***Co corresponding author**

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63. Singh A., Compe E., **Le May N.** and **Egly J.M.** Mutations in genes encoding TFIIH subunits causing xeroderma pigmentosum and trichothiodystrophy disorders specifically disturb several steps during transcription. **AJHG** (2015) 96,194-207

64. Kim J., Lim H., Saint-André C., Kim J., Sung S., Hwang CS., **Egly J.M.***, and Cho Y*. The crystal structure of the Rad3/XPD regulatory domain of Ssl1/p44: Insights into regulation of the helicase activity of the XPD subunit of TFIIH, J. Bio. Chem. (2015), 290(13):8321-30.***Co corresponding author**

65. Coin F, **Egly J.M**. Revisiting the Function of CDK7 in Transcription by Virtue of a Recently Described TFIIH Kinase Inhibitor. **Mol Cell**. (2015), 59, 513-4.

66. Santamaría Nuñez G., Genes Robles C.M., Giraudon, G. Martínez-Leal J.F., Compe E., Coin F., Pablo Aviles, Galmarini C. M. and **Egly J.M**.* Lurbinectedin specifically triggers the degradation of phosphorylated RNA Polymerase II and the formation of DNA breaks in cancer cells, **Mol Cancer Ther**. (2016), 15(10):2399-2412.

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68. Anastasina M, Le May N, Bugai A, Fu Y, Söderholm S, Gaelings L, Ohman T, Tynell J, Kyttänen S, Barboric M, Nyman TA, Matikainen S, Julkunen I, Butcher SJ, **Egly JM***, Kainov DE. Biochim Biophys Acta. (2016), 1859(11):1440-48.

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Paccosi E., Costanzo F, Costantino M, Monteonofrio L, Soddu S, Prantera G, **Egly J.M*** and Proietti De Santis*:CSA and CSB, as part of a Ubiquitin-Proteasome degradation machinery regulate the abscission during cytokinesis (submitted).