

Anne MEY, PhD in Immunology, Doctor in Pharmacy

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Nutritional adaptations, environment and diabetes Team, directed by Hubert Vidal

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Research experience

- 2013- Research Associate and project leader in Lyon-Sud University of Medicine in Hubert Vidal's team (CarMeN Laboratory, INSERM U.1060/Université Lyon1/INRA U.1397/INSA/Lyon/Hospices Civils Lyon): **Stem Cell dynamics in adipose tissue development and adaptation.**
- 2001-2012 Research Associate and project leader in Ecole Normale Supérieure de Lyon in Jacques Samarut's team (IGFL, UMR 5242 CNRS, ENS, INRA): **Mechanisms of embryonic stem cells pluripotency and dynamic.**
- 1997-2000 Post-doctoral position: **Target genes of the v-erbA oncogene in chicken erythroïd precursors**, Jacques Samarut's Laboratory, CNRS-INRA- ENS Lyon, France.
- 1992-96 PhD student in Immunology: **Structure-function relationships of bacterial lipopolysaccharides in inflammation**, Jean-Pierre Revillard's Laboratory, INSERM U80, Edouard Herriot Hospital, Lyon, France. Attribution of a fellowship from Pierre Fabre Laboratory.

Experience in research management, formation and diffusion

- 2020 - Member of the organization comity of the GOOD project for sustainable food (<https://www.good-levenement.fr/>) initiated by LE PROGRES (EBRA Events) and SUEZ: Lyon, October 16th, 2020
- 2019- - Board member of the AURASTEM association promoting the research on stem cells performed in Auvergne-Rhône Alpes
- 2018 - Member of the organization comity of the annual meeting of AFERO (French Association for research and study on Obesity): Lyon, January 23-24th,2018
- 2004- - Staff management: research associates and assistants.
- Formation by research of PhD and other students.

- Main grants attributions: from the ANR (Agence Nationale pour la Recherche) Genanimal programme (2006, Genostem project, ANR-06-GANI-007-01), from the ANR Blanc (2009, Avirepro project, ANR-09-BLAN-0141), from the GloFoodS Metaprogramme for studies on the transition towards global nutritional security, supported by INRA and CIRAD (2015, Biotrans project), CAPES-COFEUCUB (2015, collaboration with the Federal University of Pernambuco, Vitória de Santo Antão – Brazil)

2007-2017 Annual conferences on “Epigenetic regulations of stem cells”, Biosciences Master of the Ecole Normale Supérieure (ENS) de Lyon

Other experiences

1992-96 Immunopharmacological safety study for the Pierre Fabre Laboratory
1991 Research and Development for diagnosis kits, CIS Bio international, Bagnols-sur-Cèze, France
1990 Development of methods for injectable product safety controls, Laboratoire Aguettant
1988-89 Bacteriological follow-up of diabetic patients with Pr Charles Thivolet, Antiquaille Hospital, Lyon.

Education

1996 PhD in Immunology, University of Lyon I, France
1991 Master in Biotechnology (GEBM), University of Compiègne, France
1990 Master in Industrial Pharmacy, IPIL, Lyon I, France
1984-90 Graduate studies in Pharmacy, Faculty of Pharmacy, Lyon I, France

Publications

Lefevre C, Panthu B, Naville D, Guibert S, Pinteur C, Elena-Herrmann B, Vidal H, Rautureau GJP, Mey A. 2019. Metabolic Phenotyping of Adipose-Derived Stem Cells Reveals a Unique Signature and Intrinsic Differences between Fat Pads. *Stem Cells Int.* 2019 May 14;2019:9323864. doi: 10.1155/2019/9323864. eCollection 2019.

Cardoso Alonso Vale MI, Lisboa PC, Mey A, Fonseca-Alaniz MH. 2018. Chapter 11: O Papel do Tecido Adiposo no Controle do Armazenamento de Energia e na Composição Corporal. Sawaya AL, Leandro CG, Waitzberg DL. *Fisiologia da Nutrição na Saúde e na Doença: da Biologia Molecular ao Tratamento (Physiology of Nutrition in Health and Disease: from Molecular Biology to the Treatment)*, 2nd edition, ed. ATHENEU, Sao Paulo.

Blanc S, Ruggiero F, Birot AM, Acloque H, Décimo D, Lerat E, Ohlmann T, Samarut J, Mey A. 2014. Subcellular localization of ENS-1/ERN1 in chick embryonic stem cells. *PLoS One.* 2014 Mar 18;9(3):e92039. doi: 10.1371/journal.pone.0092039.

Mey A, Acloque H., Lerat E., Gounel S., Tribollet V., Blanc S., Curton D., Birot AM, Nieto MA and Samarut J. 2012. The endogenous retrovirus ENS-1 provides active binding sites for

transcription factors in embryonic stem cells that specify extra embryonic tissue. *Retrovirology*, 9, 21.

Caillier M, Thénot S, Tribollet V, Birot AM, Samarut J, Mey A. 2010. Role of the epigenetic regulator HP1 γ in the control of embryonic stem cell properties. *PLoS ONE* 5(11): e15507. doi:10.1371/journal.pone.0015507

Papanayotou C, Mey A, Birot AM, Saka Y, Boast S, Smith JC, Samarut J, Stern C. 2008. A mechanism regulating the onset of Sox2 expression in the embryonic plate. *PLoS Biology*, 6, e2.

Lerat E, Birot AM, Samarut J, Mey A. 2007. Maintenance in the chicken genome of the retroviral-like cENS gene family specifically expressed in early embryos. *J. Molec. Evol.*, 65, 215-227.

Acloque H, Mey A, Birot AM, Gruffat H, Pain B, Samarut J. 2004. Transcription factor cCP2 controls gene expression in chicken embryonic stem cells. *Nucleic Acids Res.*, 32, 2259-71.

Mey A, Gandrillon O, McNagny KM, Clegg DO, Samarut J. 2002. The v-erbA oncogene blocks expression of alpha2/beta1 integrin a normal inhibitor of erythroid progenitor proliferation. *Oncogene*, 21, 2864-72.

Mey A, Revillard JP. 1998. Mitogenic response of murine B lymphocytes to Salmonella typhimurium lipopolysaccharide requires protein kinase C-dependent late tyrosine phosphorylations. *Infect Immun.*, 66, 2547-52

Mey A, Hmama Z, Normier G, Revillard JP. 1997. Alteration of dealcylated lipopolysaccharide antagonistic properties by interaction with plasma factors. *J Leukoc Biol.*, 61, 17-23.

Mey A, Leffler H, Hmama Z, Normier G, Revillard JP. 1996. The animal lectin galectin-3 interacts with bacterial lipopolysaccharides via two independent sites. *J Immunol.*, 156, 1572-7.

Hmama Z, Mey A, Normier G, Binz H, Revillard JP. 1994. CD14 and CD11b mediate serum-independent binding to human monocytes of an acylpolygalactoside isolated from Klebsiella pneumoniae. *Infect Immun.*, 62, 1520-7.

Mey A, Berthier-Vergnes O, Apoil PA, Dore JF, Revillard JP. 1994. Expression of the galactose binding protein Mac-2 by human melanoma cell-lines. *Cancer Lett.*, 81, 155-63.

Mey A, Ponard D, Colomb M, Normier G, Binz H, Revillard JP. 1994. Acylation of the lipid A region of a Klebsiella pneumoniae LPS controls the alternative pathway activation of human complement. *Mol Immunol.*, 31, 1239-46.

Mey A, Hmama Z, Normier G, Binz H, Revillard JP. 1994. Binding to leukocytes and induction of TNF alpha production involve different sites within the lipid-A region of LPS-like molecules. *Int J Immunopharmacol*, 16, 413-7.

Mey A, Gille Y, Thivolet CH. 1990. Carriage of Staphylococcus aureus and local infections in diabetic outpatients treated with insulin pen. Diabetes Care, 13, 451-2.

Posters

- EASD, 2019, Barcelone: Functional exploration of subcutaneous adipose derived stem cells during the programming of diseases of obesity- Camille LEFEVRE, Claudie Pinteur, Béatrice Morio, Hubert Vidal, Anne Mey
- EASO, 2019, Glasgow : IL10 induction by adipose stem cells in the programming of diabetes by obesity- Camille Lefevre, José Candido Ferraz, Claudie Pinteur, Hubert Vidal, Anne Mey
- SFD 2019, Marseille : Exploration fonctionnelle des cellules souches du tissu adipeux dans la programmation des maladies de l'obésité- Camille Lefevre, Claudie Pinteur, Béatrice Morio, Hubert Vidal, Anne Mey

Oral communications

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| 18/11/19 | Satellite session to the annual meeting of FSSCR (French Society for Stem Cell Research, Lyon- « Nutritional programming and stem cells» |
| 12/09/19 | 4th regional meeting on Nutrition, Lyon- « Immunometabolism » |
| 24/05/19 | INSERM- patients meeting, Lyon : « Epigenetic and obesity » |
| 2/04/19 | AURASTEM symposium, Lyon- « Stem cell metabolism » |
| 10/11/14 | V International Meeting of Research on Physical Education and Nutrition (V EIPEN) – UFPE, Pernambuco, Brazil |