

Curriculum Vitae

Name Ellen Van Obberghen-Schilling

Date and place of birth August 14, 1956, Washington, DC

CURRENT POSITION

Group Leader, Inserm team "Adhesion Signaling and Stromal Reprogramming in the Tumor Microenvironment" <http://ibv.unice.fr/EN/index.php>
Institute of Biology Valrose (CNRS - INSERM - Université Côte d'Azur)
Université Nice-Sophia Antipolis, Parc Valrose
Telephone +33 (0)4 92 07 6430 E-mail vanobber@unice.fr

DEGREES

1978 Bachelor of Science (Biology Honors) Purdue University, West Lafayette IN, USA
1985 PhD (Doctorat d'Etat ès-Sciences) University of Nice

CAREER/EMPLOYMENT

1978-1980 Research Assistant, Diabetes Branch, NIH, Bethesda, USA
1985-1987 Staff Fellow (post-doc), Laboratory of Chemoprevention, NCI, NIH, Bethesda, USA
1982-1990 Inserm Chargé de Recherche (Tenured Scientist)
1990-present Inserm Directeur de Recherche (Senior Scientist), DR1st Class since 2005

FELLOWSHIPS & AWARDS

1980-1982 PhD Fellowship from the French Foreign Ministry
1985 International Association for Cancer Research Post-doctoral Fellow (renounced to accept Staff Fellow position at NIH)
1991 Prix Exceptionnel, Groupe d'Etudes sur l'Hémostase et la Thrombose
1996 Young Scientist Award (Fondation pour la Recherche Médicale)
2001 Inserm Research Award in Physiology/Pathology

SCIENTIFIC EVALUATION COMMITTEES

- National Scientific Commission 4, Association de la Recherche sur le Cancer (ARC) (1999-2005)
- Scientific Advisory Council, Association for International Cancer Research (AICR) (2005-2009)
- Scientific Advisory Board, Unit of Signal Transduction, GIGA-R, Liège, Belgium (2009-2010)
- Inserm CSS2 (2008-2012)
- INCa Projets libres de Recherche "Biologie et Sciences du Cancer" (PLBIO) 2013 and 2018

SCIENTIFIC COUNCILS

- Doctoral School, Université Nice-Sophia Antipolis (2000-2004)
- Cancéropôle PACA (2007-2017)
- Cancéropôle PACA Executive Board (CNRS representative since 2007)
- Ile-de-France Région (2011-2015)
- Université Nice-Sophia Antipolis Faculty of Medicine (since 2014)
- Université Nice-Sophia Antipolis Interdisciplinary Axis: Physics of living matter (since 2015)
- Nice University Hospital-Centre A. Lacassagne Cancer Center Biobank (since 2017)

NETWORKS & CAREER-RELATED ACTIVITIES

- Marie Curie Early Stage Training, International PhD Program in Developmental and Cellular Biology (InterDec) member team (2006-2010)
- Coordinator, FITMANET PAIR-VADS - FITMANET network (2011-2015)
- Labex SIGNALIFE member team (since 2012)
- Scientific Coordinator, iBV Histopathology Facility (since 2013)
- Co-leader, Workpackage Head & Neck Diseases, FHU OncoAge (AVISAN label November 2015)

INTERNATIONAL MEETINGS & SEMINARS

- **Invited Speaker (PAST 5 YEARS):** 23 National & International Meetings and Institute Seminars, Conference Chair at 3 International meetings

- **Organizer/Co-organizer** : Mechanisms of Invasion & Innovative Targeted Therapies in Head and Neck Cancer (2008, Nice, France); EMBO Conference on Cellular Signaling & Molecular Medicine (2010, Cavtat, Croatia); 5th Cell Adhesion Club Meeting (2014, Marseille, France); EACR Symposium, Tumor Microenvironment (2014, Berlin, Germany); EACR Conference Series, “Goodbye Flat Biology: Models, Mechanisms and Microenvironment” (2016, Berlin, Germany); Annual meeting of the French Extracellular Matrix Biology Society Meeting (2017, Marseille); Mini-workshop FHU OncoAge, October 16, 2017; 3rd Edition of the EACR Conference Series, “Goodbye Flat Biology: In Vivo Inspired Cancer Biology and Therapy” (2018, Berlin, Germany)

RESEARCH INTERESTS

(past) Description of the first genetic defect in insulin and insulin-like growth factor receptors; mitogenic signaling by α -thrombin; cloning/mutagenesis of TGF- α and - β ; Cloning/downstream signaling of the PAR-1 G protein-coupled α -thrombin receptor ; integrin-based signaling and fibronectin fibrillogenesis

(present) extracellular matrix (ECM) in carcinoma progression, spread and response to therapy

PUBLICATIONS (past 5 years) (of 90 publications in international peer-reviewed scientific journals)

- Turchi, L, Debruyne DN, Almairac, F, Virolle, V, Fareh, M, Neirijnck, Y, Burel-Vandenbos, F, Paquis, P, Junier, M-P, Van Obberghen-Schilling, E, Chneiweiss, H and Virolle, T. (2013) Tumorigenic potential of miR-18A* in glioma initiating cells requires NOTCH-1 signaling. **Stem Cells** Jul;31(7):1252-65. doi: 10.1002/stem.1373.80.
- Serres E., Debarbieux F.*, Stanchi F.*, Maggiorella L., Grall D., Rougon G., and Van Obberghen-Schilling E. (2014) Fibronectin expression in glioblastomas promotes cell cohesion, collective invasion of basement membrane in vitro and orthotopic tumor growth in mice. **Oncogene** 33:3451-62.
- Veracini L, Grall D, Schaub S, Beghelli-de la Forest Divonne S, Etienne-Grimaldi M-C, Milano G, Bozec A, Babin E, Sudaka A, Thariat J and Van Obberghen-Schilling E. (2015) Elevated Src family kinase signaling stabilizes E-cadherin-based junctions and collective movement of head and neck squamous cell carcinomas. **Oncotarget** 6:7570-83.
- Thariat J, Vignot S, Lapiere A, Falk A, Guigay J, Van Obberghen-Schilling E, Milano G. Integrating genomics in head and neck cancer treatment: promises and pitfalls. **Crit Rev Oncol Hematol**. (2015) Apr 18. doi: 10.1016/j.critrevonc.2015.03.005.
- Soubies E, Schaub, S, Radwanska A, Van Obberghen-Schilling E, Blanc-Feraud L, Aubert GA Framework for Multi-Angle TIRF Microscope Calibration, **2016 IEEE International Symposium on Biomedical Imaging**
- Sakakini N, Turchi L, Burel-Vandenbos F, Bergon A, Holota H, Rekima S, Lopez F, Paquis P, Almairac F, Fontaine D, Baeza-Kallee N, Van Obberghen-Schilling E, Junier M-P, Chneiweiss H, Figarella-Branger D, Imbert J* and Virolle*. (*equal contribution) EGR1 transcriptionally regulates the miR-18a* network to promote glioblastoma stem cell proliferation and self-renewal. **J Biol Chem**. (2016) Mar 21. pii: jbc.M116.720698
- Rupp T, Langlois B, Koczorowska MM, Radwanska A, Sun Z, Hussenet T, Lefebvre O, Murdamoothoo D, Arnold C, Klein A, Biniossek ML, Hyenne V, Naudin E, Velazquez-Quesada I, Schilling O, Van Obberghen-Schilling E, Orend G. Tenascin-C Orchestrates Glioblastoma Angiogenesis by Modulation of Pro- and Anti-angiogenic Signaling. **Cell Rep**. (2016)17:2607-2619
- Gopal S*, Veracini L*, Grall D, Butori C, Schaub S, Audebert S, Camoin L, Baudalet E, Radwanska A, Beghelli-de la Forest Divonne S, Violette SM, Weinreb PH, Rekima S, Ilie M, Sudaka A, Hofman P and Van Obberghen-Schilling E. Fibronectin-guided migration of carcinoma collectives. **Nat Commun**.(2017) 7: 14105
- Degli Esposti D*, Sklias A, Lima SCS, Beghelli-de la Forest Divonne S, Cahais V, Fernandez-Jimenez N, Cros M-P, Ecsedi S, Cuenin C, Bouaoun L, Byrnes G, Accardi R, Sudaka A, Giordanengo V, Hernandez-Vargas H, Felipe Ribeiro Pinto L, Van Obberghen-Schilling E* and Herceg Z*. Unique DNA methylation signature in HPV-positive head and neck squamous cell carcinomas. Genome Med. *co-corresponding authors **Genome Med**. (2017) 9:33.
- Radwanska A, Grall D, Schaub S, Divonne SBF, Ciais D, Rekima S, Rupp T, Sudaka A, Orend G, Van Obberghen-Schilling E. Counterbalancing anti-adhesive effects of Tenascin-C through fibronectin expression in endothelial cells. **Sci Rep**. (2017) 7:12762. doi: 10.1038/s41598-017-13008-9.
- Grapa, AI, Meunier R, Blanc-Féraud L, Efthymiou G, Schaub S, Radwanska A, Van Obberghen-Schilling E and Descombes X. (2018) Classification of fibronectin variants with curvelets. **IEEE International Symposium on Biomedical Imaging**.