

Selected Publication

Adam Cliffe, David P. Doupé, HsinHo SUNG, Isaac Kok Hwee LIM, Kok Haur ONG, Li CHENG, **Weimiao YU***.

Quantitative analysis of complex individual cell behaviors in highly coordinated in vivo collective cell migration.

Accepted by ***Nature Communication*** and in press. (2017)

Chiara Malinverno, Salvatore Corallino, Fabio Giavazzi, Martin Bergert, Qingsen Li, Marco Leoni, Andrea Disanza, Emanuela Frittoli, Amanda Oldani, Emanuele Martini, Tobias Lendenmann, Gianluca Deflorian, Galina V. Beznoussenko, Dimos Poulikakos, ONG Kok Haur, Marina Uroz, Xavier Trepat, Dario Parazzoli, Paolo Maiuri, **Weimiao Yu**, Aldo Ferrari, Roberto Cerbino, Giorgio Scita. Endocytic re-awakening of motility in jammed epithelia.

Nature Material, 1476-4660, <http://dx.doi.org/10.1038/nmat4848>, (2017)

Alba Diz-Muñoz, Paweł Romanczuk, **Weimiao Yu**, Martin Bergert, Kenzo Ivanovitch, Guillaume Salbreux, Carl-Philipp Heisenberg, Ewa Paluch. Steering cell migration by alternating blebs and actin-rich protrusions.

BMC Biology, Sep 2;14:74. DOI: 10.1186/s12915-016-0294-x, (2016)

Kok Haur ONG#, Jaydeep DE#, Li CHENG*, Sohail AHMED*, **Weimiao YU****.

NeuronCyto II: An automatic and quantitative solution for crossover neural cells in high throughout screening.

Cytometry Part A May 27. doi: 10.1002/cyto.a.22872, (2016)

Laurent Gole*, Kok Haur Ong, Thomas Boudier3abc, **Weimiao Yu***, Sohail Ahmed*.

OpenSegSPIM: a user-friendly segmentation tool for SPIM data.

Bioinformatics. doi: 10.1093/bioinformatics/btw093, (2016).

Yosuke Ono, **Weimiao Yu**, Harriet E. Jackson, Caroline Parkin, Philip W. Ingham, Adaxial cell migration in the zebrafish embryo is an active cell autonomous property that requires the Prdm1a transcription factor.

Differentiation, <http://dx.doi.org/10.1016/j.diff.2015.03.002>, (2015)

Gema Malet-Engra, **Weimiao Yu**, Amanda Oldani, Javier Rey Barroso, Nir S. Gov, Giorgio Scita, and Loïc Dupré.

Collective Cell Motility Promotes Chemotactic Prowess and Resistance to Chemorepulsion.

Current Biology 25, 242–250, <http://dx.doi.org/10.1016/j.cub.2014.11.030>, (2015).

Weimiao Yu*, Hwee Kuan LEE, Srivats HARIHARAN, Wen Yu BU and Sohail AHMED.

Evolving Generalized Voronoi Diagrams of Active Contours for Accurate Cellular Image Segmentation.

Cytometry Part A 77A pg. 379~386, (2010).

Weimiao Yu*, Hwee Kuan LEE, Srivats HARIHARAN, Wen Yu BU and Sohail AHMED.

Quantitative Neurite Outgrowth Measurement Based on Image Segmentation with Topological Dependence.

Cytometry Part A, 75A, pg. 289-297, (2009).

Weimiao Yu*, Hwee Kuan LEE, Pascal VALLOTTON, Srivats HARIHARAN, Sankaran SHVETHA and Sohail AHMED.

Segmentation of Neural Stem/Progenitor Cells Nuclei within 3-D Neurospheres.

International Symposium on Visual Computing (ISVC 2009),

Lecture Notes of Computer Science, 5875, pg. 531-543, (2009).