

Edouard Hannezo | Curriculum Vitae

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Nationality : French Date of Birth : 21st of November 1986

Education

PhD in Biological Physics at the Institut Curie , co-advised by Jean-Francois Joanny and Jacques Prost. Completed with Highest Honors .	2010-2014
B.Sc. in Chemistry, B.Sc. and Masters in Physics with Highest Honors at the École Normale Supérieure of Paris and at the University Pierre et Marie Curie .	2006-2010
"Classes préparatoires" specialized in Mathematics , Physics , and Chemistry , corresponding approximately to a two-year university diploma in those three disciplines.	2004–2006
French Baccalauréat with Highest Honors .	2004

Work Experience

Sir Henry Wellcome Fellow of the Wellcome Trust , based in the Gurdon Institute, Cambridge	2016-2020
Junior Research Fellow at Trinity College, University of Cambridge , and at the Cavendish Laboratory, working with Prof. Benjamin Simons.	2015-2019
Supervisions at Trinity College, University of Cambridge , of Part IB physics students (2 hours/week).	2015-2016
Short Postdoctoral Position in the Developmental Biology Department at the Institut Curie , under the supervision of Yohanns Bellaïche	2014
Visiting Scholar at Harvard University . I worked in the Experimental Soft Condensed Matter Group (David A. Weitz), and studied the properties of collective cell dynamics as a function of cell density	2008

Publications

Peer-reviewed papers - 19 accepted research articles

- **Transmission of cytokinesis forces via E-Cadherin dilution and actomyosin flows**
D. Pinheiro, **E. Hannezo***, S. Herstzerg*, ..., and Y. Bellaïche, **Nature**, accepted
*Co-second authors
- **Identity and dynamics of mammary stem cells during branching morphogenesis (Research Article)**
C. Scheele*, **E. Hannezo***, ..., B. Simons and J. Van Rheenen, **Nature**, (2017)
*Co-first authors
- **RhoA regulates actin network dynamics during apical emergence in multiciliated cells.**
J. Sedzinski, **E. Hannezo**, F. Tu, M. Biro and J. Wallingford, **J Cell Sci**, 130(2) :420-42 (2017)
- **Defining the clonal dynamic leading to basal cell carcinoma initiation (Research Article)**
A. Sanchez-Danes*, **E. Hannezo***, ... , B. Simons and C. Blanpain, **Nature**, 536(7616), 298-303, (2016)
*Co-first authors
- **Interplay of migratory and division forces as a generic mechanism for stem cell patterns**
E. Hannezo*, A. Coucke and J-F. Joanny, **Phys. Rev. E**, 93(2), 022405. (2016)
* Corresponding author

- **Physics of active jamming during collective cellular motion in a monolayer**
S. Garcia, **E. Hannezo**, J. Elgeti J-F. Joanny, P. Silberzan, N. Gov, **PNAS**, 112 (50), 15314-15319, (2015)
- **Assembly and positioning of actomyosin rings by contractility and PCP**
I. Sehring, P. Recho, E. Denker, ... , **E. Hannezo***, B. Dong*, D. Jiang*, **eLife**, 4 :e09206., (2015) (Cover article)
*Corresponding author
- **A cortical instability drives supracellular actin ring formation in biological tubes**
E. Hannezo*, B. Dong*, P. Recho, J-F. Joanny and S. Hayashi, **PNAS**, 04762, (2015) (Highlighted article)
* Co-first and corresponding author.
- **Dynamic model of Heat Transfer in an porous wick of Capillary Pumped Loop**
R. Boubaker, V. Platel, A. Berges, M. Bancelin, **E. Hannezo**, **App. Therm. Eng.**, 76, 1-8 (2014)
- **Balance between Apical Growth and Matrix Resistance Determines Epithelial Tubule Shape**
B. Dong, **E. Hannezo**, S. Hayashi, **Cell reports**, 7(4), 941-950 (2014)
- **Homeostasis and dynamics of stem-cell tissues**
E. Hannezo*, J-F Joanny and J. Prost, **J. R. Soc. Interface**, 11 (93), 20130895 (2014)
* Corresponding author
- **Theory of epithelial sheet morphology in three dimensions**
E. Hannezo*, J-F Joanny and J. Prost, **PNAS** 111 (1), 27-32 (2013)
* Corresponding author
- **Alignment of cellular motility forces with flow as a mechanism for efficient wound healing**
M. Basan, J. Elgeti, **E. Hannezo**, W-J Rappel and H. Levine, **PNAS** (2013) (Inaugural article)
- **Mechanical instabilities of biological tubes**
E. Hannezo, J-F Joanny and J. Prost, **PRL** 109, 018101 (2012)
- **Instabilities of Monolayered Epithelia : Shape and Structure of Villi and Crypts**
E. Hannezo, J-F Joanny and J. Prost, **PRL** 107, 078104 (2011) (Highlighted article)
- **Notch Lineages in Intestinal Stem Cells Determined by A New Set of Knock-In Mice**
S. Fre, **E. Hannezo**, S. Sale, M. Huyghe, ... , S. Artavanis-Tsakonas, **PLoS ONE** 6(10) : e25785 (2011)
- **Glass-like dynamics of collective cell migration**
T. Angelini, **E. Hannezo**, X. Trepat, J. Fredberg and D. Weitz, **PNAS**, 4714-4719 (2011) (Cover article)
- **Cell Migration Driven by Cooperative Substrate Deformation Patterns**
T. Angelini, **E. Hannezo**, X. Trepat, J. Fredberg and D. Weitz, **PRL** 104, 168104 (2011)

General public articles and interventions

- "Mathematical modelling in biology" (2015), interview with Arte (franco-german TV channel).
- "Cancer and Randomness?" (2015), invited speaker in the "Science, Research, Society" forum organised by "Le Monde", France's leading newspaper
- "Cancer and Randomness?" (2015), article in the French magazine "La Recherche"
- "Does cancer play dice?" (2015), article in "Le Monde", France's leading newspaper
- "Angelina Jolie and the return of Pascal's wager" (2013), article in "Le Journal du Dimanche".
- "Young smiles in research" (2011), radio interview on "France Culture"

Scientific distinctions

- 2015 : **Sir Henry Wellcome Fellowship** from the Wellcome Trust
- 2014 : **Young Researcher Prize** from the Bettencourt-Schuller Foundation
- 2014 : **Junior Research Fellowship** from Trinity College, Cambridge.
- 2010 : **PhD grant** from the French Ministry of Research.