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Stress and cancer

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## Key publications

### Year of publication 2020

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Claire Bonneau, Antoine Eliès, Yann Kieffer, Brigitte Bourachot, Sylvain Ladoire, Floriane Pelon, Delphine Hequet, Jean-Marc Guinebretière, Christophe Blanchet, Anne Vincent-Salomon, Roman Rouzier, and Fatima Mechta-Grigoriou (2020 Jul 14)

**A subset of activated fibroblasts is associated with distant relapse in early luminal breast cancer**

*Breast Cancer Research* : [DOI : 10.1186/s13058-020-01311-9](https://doi.org/10.1186/s13058-020-01311-9)

Yann Kieffer, Hocine R. Hocine, Géraldine Gentric, Floriane Pelon, Charles Bernard, Brigitte Bourachot, Sonia Lameiras, Luca Albergante, Claire Bonneau, Alice Guyard, Karin Tarte, Andrei Zinovyev, Sylvain Baulande, Gerard Zalzman, Anne Vincent-Salomon, and Fatima Mechta-Grigoriou (2020 May 20)

**Single-Cell Analysis Reveals Fibroblast Clusters Linked to Immunotherapy Resistance in Cancer**

*Cancer Discovery* : [DOI : 10.1158/2159-8290.CD-19-1384](https://doi.org/10.1158/2159-8290.CD-19-1384)

Yann Kieffer, Claire Bonneau, Tatiana Popova, Roman Rouzier, Marc-Henri Stern, Fatima Mechta-Grigoriou (2020 Mar 17)

**Clinical Interest of Combining Transcriptomic and Genomic Signatures in High-**

### **Grade Serous Ovarian Cancer**

*Frontiers in Genetics* : DOI : [10.3389/fgene.2020.00219](https://doi.org/10.3389/fgene.2020.00219)

Floriane Pelon, Brigitte Bourachot, Yann Kieffer, Ilaria Magagna, Fanny Mermet-Meillon, Ana Costa, Anne-Marie Givel, Youmna Attieh, Jorge Barbazan, Laetitia Fuhrmann, Stéphanie Descroix, Danijela Vignjevic, Pascal Silberzan, Isabelle Bonnet, Claire Bonneau, Maria Carla Parrini, Anne Vincent-Salomon & Fatima Mechta-Grigoriou (2020 Jan 21)

### **Cancer-associated fibroblast heterogeneity in axillary lymph nodes drives metastases in breast cancer through complementary mechanisms**

*Nature Communication* : 11 : 1-20 : DOI : [10.1038/s41467-019-14134-w](https://doi.org/10.1038/s41467-019-14134-w)

### **Year of publication 2019**

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G Gentric, Y Kieffer, V Mieulet, O Goundiam, C Bonneau, F Nemat, I Hurbain, G Raposo, T Popova, MH Stern, V Lallemand-Breitenbach, S Müller, T Cañeque, R Rodriguez, A Vincent-Salomon, H de Thé, R Rossignol, F Mechta-Grigoriou (2019 Jan 5)

### **PML-Regulated Mitochondrial Metabolism Enhances Chemosensitivity in Human Ovarian Cancers**

*Cell Metabolism*

### **Year of publication 2018**

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Givel AM, Kieffer Y, Scholer-Dahirel A, Sirven P, Cardon M, Pelon F, Magagna I, Gentric G, Costa A, Bonneau C, Mieulet V, Vincent-Salomon A, Mechta-Grigoriou F (2018 Mar 13)

### **miR200-regulated CXCL12 $\beta$ promotes fibroblast heterogeneity and immunosuppression in ovarian cancers.**

*Nature communications* : DOI : [10.1038/s41467-018-03348-z](https://doi.org/10.1038/s41467-018-03348-z).

Costa A, Kieffer Y, Scholer-Dahirel A, Pelon F, Bourachot B, Cardon M, Sirven P, Magagna I, Fuhrmann L, Bernard C, Bonneau C, Kondratova M, Kuperstein I, Zinovyev A, Givel AM, Parrini MC, Soumelis V, Vincent-Salomon A, Mechta-Grigoriou F (2018 Mar 12)

### **Fibroblast Heterogeneity and Immunosuppressive Environment in Human Breast Cancer.**

*Cancer Cell* : 463-479 : DOI : [10.1016/j.ccell.2018.01.011](https://doi.org/10.1016/j.ccell.2018.01.011)

Costa, A., Kieffer, Y., Scholer-Dahirel, A., Pelon, F., Bourachot, B., Cardon, M., Sirven, P., Magagna, I., Fuhrmann, L., Bernard, C., Bonneau, C., Kondratova, M., Kuperstein, I., Zinovyev, A., Givel, A.-M., Parrini, M.-C., Soumelis, V., Vincent-Salomon, A., and Mechta-Grigoriou, F (2018 Mar 12)

### **Fibroblast Heterogeneity and Immunosuppressive Environment in Human Breast Cancer**

*Cancer Cell* : 33 : 463,479 : DOI : [doi.org/10.1016/j.ccell.2018.01.011](https://doi.org/10.1016/j.ccell.2018.01.011)

#### Year of publication 2017

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Gentric G, Mieulet V, Mechta-Grigoriou F (2017 Mar 20)

**Heterogeneity in Cancer Metabolism: New Concepts in an Old Field.**

*Antioxidants & Redox Signaling* : 26 : [DOI : 10.1089/ars.2016.6750](https://doi.org/10.1089/ars.2016.6750)

Lefort, A Thuleau, Y Kieffer, P Sirven, I Bieche, E Marangoni, A Vincent-Salomon & F Mechta-Grigoriou (2017 Mar 2)

**CXCR4 inhibitors could benefit to HER2 but not to triple-negative breast cancer patients**

*Oncogene* : 1211-1222 : [DOI : 10.1038](https://doi.org/10.1038)

#### Year of publication 2016

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Tina Grusso, Virginie Mieulet, Melissa Cardon, Brigitte Bourachot, Yann Kieffer, Flavien Devun, Thierry Dubois, Marie Dutreix, Anne Vincent-Salomon, Kyle Malcolm Miller, Fatima Mechta-Grigoriou (2016 Mar 24)

**Chronic oxidative stress promotes H2AX protein degradation and enhances chemosensitivity in breast cancer patients.**

*EMBO molecular medicine* : 527-49 : [DOI : 10.15252/emmm.201505891](https://doi.org/10.15252/emmm.201505891)

Luciana Batista, Brigitte Bourachot, Bogdan Mateescu, Fabien Reyal, Fatima Mechta-Grigoriou (2016 Jan 5)

**Regulation of miR-200c/141 expression by intergenic DNA-looping and transcriptional read-through.**

*Nature communications* : 8959 : [DOI : 10.1038/ncomms9959](https://doi.org/10.1038/ncomms9959)

#### Year of publication 2015

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Tina Grusso, Camille Garnier, Sophie Abelanet, Yann Kieffer, Vincent Lemesre, Dorine Bellanger, Ivan Bieche, Elisabetta Marangoni, Xavier Sastre-Garau, Virginie Mieulet, Fatima Mechta-Grigoriou (2015 Oct 13)

**MAP3K8/TPL-2/COT is a potential predictive marker for MEK inhibitor treatment in high-grade serous ovarian carcinomas.**

*Nature communications* : 8583 : [DOI : 10.1038/ncomms9583](https://doi.org/10.1038/ncomms9583)