

Nombre: Salvador Aznar Benitah

Lugar y Fecha de nacimiento: Montreal (Canada), 12/06/1975

Idiomas: Inglés, Español, Catalán y Francés (*Solo leído:* Hebreo)

URL: <https://www.irbbarcelona.org/es/research/stem-cells-and-cancer>

ORCID: <http://orcid.org/0000-0002-9059-5049>

Posición actual: Desde 2014: **ICREA Professor at the Institute for Research in Biomedicine** (IRB Barcelona) (Dpt. Oncology; Stem cells and Cancer Laboratory)

Educación y posiciones anteriores

2007-2013: **Junior ICREA Group Leader**, Center for Genomic Regulation (Barcelona)

2003-2006: **Postdoctoral fellow**, London Research Institute, Cancer Research UK (UK)

1998-2002: **PhD** (Cum Laude), Instituto de Investigaciones Biomédicas (Madrid, Spain)

1997-1998: **Masters en Bioquímica**, McGill University, (Montreal, Canada)

1993-1998: **Licenciaturas de Bioquímica y Biología Molecular (Grado: Honours)**, McGill University (Canada)

Premios y contratos

- **2017:** *Premio Ciudad de Barcelona* en ciencias de la vida
- **2017:** *Premio de la Sociedad Catalana de Biología* (Pascual *et al.*, 2017)
- **2016:** *Premio Diz Pintado en Biomedicina*
- **2014:** *Fundación Botín* y *Premio del Banc Sabadell* en Biomedicina
- **2013:** *Beug Foundation Award* por la investigación en Metástasis
- **2013:** *ICREA Research Professor*
- **2012:** *Lancôme Award* en investigación dermatológica
- **2011:** *Nat Cell Biol/Max Dellbruck Award* en investigación de Stem Cells
- **2007-2011:** *ICREA Junior Researcher*
- **2004-2006:** *Marie Curie Intra-European Postdoctoral Fellowship*
- **2003-2004:** *Long-Term EMBO Postdoctoral Fellowship*
- **2003:** *Cancer Research UK Postdoctoral Prize*, London, UK
- **2001-2002:** *European Association for Cancer Research Young Investigator Awards*
- **2003:** *Premio Extraordinario de Tesis Doctoral*, Spain

Organización de congresos

- **2021:** *Epithelial Differentiation Gordon Research Conference* (Europe)
- **2019:** Co-organizador *Epithelial Differentiation Gordon Research Conference* (USA)
- **2018:** Organizador del IRB/BBVA meeting *Mechanisms of Metastasis* (Barcelona)
- **2017:** Organizador del *Epigenetics in Skin Symposium* (Salzburg)
- **2016:** Organizador del BCEC *Beyond the Cancer Genomes* meeting (Barcelona)
- **2012-2017:** Co-organizador *European Society for Dermatology Research* meetings
- **2014, 2009:** Co-organizador del *CRG Symposia on Stem cells and Cancer*
- **2012:** Comité científico del 22 *EACR* (European Association for Cancer Research)
- **2011:** Co-organizador del Congreso anual de la *ASEICA*

Responsabilidades y miembro de consejos

- **Desde 2014:** Comité internacional de la *International Society for Stem Cell Research*
- **Desde 2014:** Consejero científico de *L'Oreal* (Paris, France)
- **Desde 2013:** Panel evaluador del *Leo Pharma Award for Young Investigators*
- **2012-2017:** Comité ejecutivo de la *European Society for Dermatological Research*
- **Desde 2011:** Clases en la Universitat de Barcelona y la Universitat Pompeu Fabra para estudiantes de MSc y PhD.
- **2009-2012:** Comité ejecutivo de la *ASEICA*
- **2007-2012:** Miembro permanente del *Comité Etico de Experimentación Animal*

10 principales publicaciones entre 2007-2017 (Total de 57; como autor senior 23)

https://www.ncbi.nlm.nih.gov/pubmed/?term=Benitah_SA

En orden cronológico:

1. 2017: Solanas G, Peixoto F, Perdiguero E, Jardi M, Ruiz-Bonilla V, Datta D, Symeonidi A, Castellanos A, Welz PS, Caballero JM, Sassone-Corsi P, Muñoz-Cánoves P, **Benitah SA**. Adult stem cells reprogram their daily rhythmic functions to adapt to tissue-specific. *Cell* IF: 28.71
2. 2017: Sato S, Solanas G, Peixoto F, Bee L, Symeonidi A, Schmidt MS, Brenner C, Masri S, **Benitah SA***, Sassone-Corsi P*. Circadian reprogramming identifies metabolic pathways of aging. *Cell* (*co-corresponding) IF: 28.71
3. 2017: Pascual G, Avgustinova A, Mejetta S, Martín M, Castellanos A, Otto-Attolini C, Berenguer A, Prats N, Toll A, Hueto JA, Bescos C, Di Croce L, **Benitah SA**. Targeting metastasis-initiating cells through the fatty acid receptor CD36. *Nature* (Article) Commented in *Nature, Cancer Cell, Cell Metabolism, Nat Rev Cancer, Science*, and more than 500 international media. IF: 41.45
4. 2017: Rinaldi L, Avgustinova A, Martín M, Datta D, Solanas G, Prats N, **Benitah SA**. Loss of Dnmt3a and Dnmt3b does not affect epidermal homeostasis but promotes squamous transformation through PPAR- γ . *eLife* Highlighted in *eLife* IF: 8.30
5. 2016: Rinaldi L, Datta D, Serrat J, Morey L, Solanas G, Avgustinova A, Pons JI, Matallans D, Von Kriegsheim A, Di Croce L, **Benitah SA**. Dnmt3a and Dnmt3b associate with enhancers to regulate human epidermal stem cell homeostasis. *Cell Stem Cell* IF: 22.38 Highlighted in *Cell Stem Cell*
6. 2015: Toufighi K, Jae-Seong Yang, Luis NM, **Benitah SA***, Lehner B*, Serrano L*, Kiel L*. Dissecting the calcium-induced differentiation of human primary keratinocytes stem cells by integrative and structural network analyses. *Plos Comp Biol* (*co-corresponding) IF: 4.58
7. 2013: Janich P, Toufighi K, Solanas G, Luis NM, Minkwitz S, Serrano L, Lehner B, **Benitah SA**. Human epidermal stem cell function is regulated by circadian oscillations. *Cell Stem Cell* IF: 22.38
8. 2011: Uribealago I, Buschbeck M, Gutiérrez A, Teichmann S, Demajo S, Kuebler B, Nomdedéu JF, Martín-Caballero J, Roma G, **Benitah SA***, Di Croce L*. E-box-independent regulation of transcription and differentiation by MYC. *Nat Cell Biol* (*co-corresponding) IF: 19.48
9. 2011: Luis NM, Morey L, Mejetta S, Pascual G, Janich P, Kuebler B, Cozutto L, Roma G, Nascimento E, Frye M, Di Croce L, **Benitah SA**. Regulation of human epidermal SC proliferation and senescence requires polycomb- dependent and -independent functions of Cbx4. *Cell Stem Cell* IF: 22.38
10. 2011: Janich P, Pascual G, Merlos-Suárez A, Batlle E, Ripperger J, Albrecht U, Cheng HY, Obrietan K, Di Croce L, **Benitah SA**. The circadian molecular clock creates epidermal stem cell heterogeneity. *Nature* (Article) Commented in *Nature, Cell Stem Cell, Nat Cell Biol, Nat Rev Cancer*, and *The Scientist* and more than 100 media. IF: 41.45

En revisión: Avgustinova A, Symeonidi A, Solé L, Martín M, Castellanos A, Supek F, Lehner B, **Benitah SA**. Chromatin opening alters the mutational burden and promotes tumor progression through selection of genomically-unstable p53-mutant cells. *In review in Nature* (ms# 2017-04-05218)

Presentaciones en congresos (49 seleccionadas de más de 60 e mlos últimos 10 años)

- *Keystone Tumor Metabolism* (2017)
- *Keystone Ageing Metabolism* (2016)
- *Keystone Epigenetic* (2014, 2015, 2016)
- *Gordon Research Conference Epithelial Diff. and Keratinization* (2013, 2015, 2017)
- *Gordon Research Conference Ageing* (2013)
- *Gordon Research Conference Chronobiology* (2011, 2013, 2017)
- *International Society for Stem Cell Research ISSCR* (2012, 2014, 2016, 2017)

- ISSCR regional and future leader meetings (2013, 2017)
- EMBL Stem cells in Cancer and Regenerative Medicine (2010, 2012)
- EMBO Conference on Stem Cells (2010, 2011)
- EACR Epigenetics in Cancer meeting (2015)
- European Association for Cancer Research (EACR) (2008)
- Cold Spring Harbor Stem Cell Conference (2011, 2012, 2017)
- USA National Academy of Sciences-Epigenetics and metabolism (2016)
- European Society for Dermatological Research (2013, 2014, 2015, 2016, 2017)
- Abcam Epigenetic Meeting (2014, 2015, 2016, 2017)
- Miami Sylvester Cancer Center Meeting on epigenetics (2014, 2016)
- Nature Medicine, Metastasis (2016) AND Regenerative Medicine (2013)
- Cell Epigenetics meeting (2015)
- University of Cambridge Stem Cell Institute (2009, 2012, 2016)
- Weizmann Institute (2016); Harvard Medical School (2011)
- Yale University (2013)
- Harvard Medical School (2015)

Revisor y editorial boards

- **Revistas:** *Nature, Science, Cell Stem Cell, Cell, Cell Reports, Cell Metabolism, Nat Cell Biol, Nat Med, Nat Gen, Elife, Journal of Cell Science, The EMBO Journal, EMBO rep, Oncogene, PloS Genetics, Development, Journal Investigative Dermatology, and Stem Cell Reports.*
- **Agencias de investigación:** France, Belgium, Switzerland, UK (MRC, Wellcome Trust, AICR), Italy, Portugal, and EU (ERC).
- **Desde 2015:** Editorial Board de *Scientific Reports* (Nature Publishing Group)
- **2009-2015:** Miembro permanente de la ANEP en el area de BFS (Biología Fundamental y de Sistemas)

Patentes y contratos

- **2016-presente:** Contrato con MRCT (UK) para *Development of humanized clinical grade CD36 neutralizing antibodies* y su posterior prueba en ensayos clínicos.
- **2016-present:** Patent Filing *Targeting metastatic stem cells through a fatty acid receptor*. Order number: 15382474.3-4303