

CURRICULUM VITAE

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 Nationality: Spanish

Education:

1982 - 1986 Ph.D., University of Salamanca, Spain (Microbiology/Molecular Biology)
 1981 - 1982 M.Sc., University of Salamanca (Microbiology/Biochemistry)
 1977 - 1982 B.Sc., University of Salamanca (Biology)

Brief chronology of employment:

2010 - present ICREA Research Professor at IRB Barcelona, Spain
 2004 - 2010 Senior Group leader, Spanish National Cancer Center (CNIO), Madrid, Spain
 1995 - 2004 Group leader, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany
 1992 - 1995 Research fellow, Cancer Research UK, Clare Hall Laboratories, South Mimms, UK
 1991 Visiting associate, Laboratory of Cellular and Molecular Biology, NCI, National Institutes of Health
 1987 - 1990 Postdoctoral fellow, Laboratory of Molecular Microbiology, NIAID, National Institutes of Health, Bethesda, Maryland, USA
 1986 - 1987 Teaching assistant, Department of Microbiology, University of Salamanca
 1982 - 1985 Graduate student, Institute of Microbial Biochemistry, CSIC and Department of Microbiology, University of Salamanca, Spain

Honours and Awards:

2015 and 2018 European Research Council Proof of Concept Grants
 2011 European Research Council Advanced Grant
 2010 ICREA Research Professor at ICREA Senior Call 2010
 2008 Prize for "Best scientific publication in 2007". V National Contest. Fundación Investigación Médica Mutua Madrileña.
 2003 Elected member of the European Molecular Biology Organization (EMBO)
 1987 - 1991 J. Fogarty International Research Fellowship (NIH) USA
 1987 Fullbright Fellowship, USA (declined)

- 1986 *Cum laude* PhD and extraordinary award for best PhD dissertation of the academic year: “Cloning and characterization of genes related to the production of extracellular β -glucanases in *Saccharomyces cerevisiae*”. Faculty of Biology, University of Salamanca, Spain
- 1985 Research fellowship from the Spanish Ministry of Health to support short-term visits to a foreign laboratory, spending 3 months at NIH (Bethesda, USA)
- 1983 - 1986 Research fellowship from the Spanish Ministry of Education and Science
- 1982 *Cum laude* Master and extraordinary award for outstanding achievements as undergraduate student (#1 of the promotion). Faculty of Biology, University of Salamanca, Spain

Professional activities:

- 2021 Evaluation Committee. Biomedicine/Cancer program grants. Ministerio de Ciencia e Innovación/ Agencia Estatal de Investigación. Madrid.
- 2020 Guest Editor, 2021 “Cell Signalling” issue of Current Opinion in Cell Biology
- 2020 - present Editorial Board, Cancers
- 2020 Evaluation Committee, Biosciences and Biotechnology grants, Ministerio de Ciencia e Innovación/Agencia Estatal de Investigación. Madrid
- 2019 - 2020 Review panel member, MAESTRO program, Polish National Science Center. Krakow, Poland
- 2018- present Scientific Advisory Board, International PhD Program “Signaling Mechanism in Cellular Homeostasis”, Austrian Research Fund, University of Vienna, Austria.
- 2018 Scientific Evaluation Committee, Swiss National Science Foundation (SNSF), Indo-Swiss Joint Research Programme. New Delhi, India
- 2017 Chair of Selection Committee, European Research Council (ERC) Starting Grant (LS4), Brussels, Belgium
- 2017 Review Panel member, First TEAM program, Foundation for Polish Science. Warsaw, Poland
- 2017 Selection Committee, Ramón y Cajal young investigator program. Ministerio de Economía y Competitividad. Madrid
- 2016 Ad-hoc Review Committee, DFG research unit on Cell Plasticity in Carcinogenesis. Frankfurt, Germany.
- 2012 - present Scientific Advisory Board, Centre de Recherche en Biologie cellulaire de Montpellier (CRBM-CNRS). Montpellier, France
- 2011 - 2015 Selection committee, European Research Council (ERC) Starting Grants (LS4). Brussels, Belgium
- 2010 - 2018 Editorial Board, The Biochemical Journal
- 2009 - 2010 Committee to oversee the National Strategy for Cancer of the Spanish National Health System, Ministerio de Sanidad. Madrid
- 2009 - 2012 Board of Directors, Spanish Association for Cancer Research (ASEICA). Madrid
- 2008 - 2009 Chair of Scientific Committee, Spanish National Cancer Research Center (CNIO). Madrid
- 2008 - 2012 Scientific Advisory Committee, Association for International Cancer Research (AICR now WCR: Worldwide Cancer Research). Edinburgh, UK

- 2008 - 2011 Selection Committee, EMBO Young Investigator program. Heidelberg, Germany
- 2008, 2011, 2012 Evaluation Committee, Fundamental Biology program grants, Ministerio de Ciencia e Innovación. Madrid
- 2004 - 2010 Scientific Advisor, Eli Lilly & Co., Cancer Inflammation and Cell Survival Research. Indianapolis, USA
- 2004 - 2020 Editor, FEBS Letters
- 2001 - present Editorial Board, BioMed Central Faculty 1000, Cell Growth & Division
- 2000 Scientific co-founder and advisor of the drug discovery company Cellzome, a spin-off of EMBL that employed 90 people in Heidelberg (Germany) and was acquired by GlaxoSmithKline in 2012.

Other scientific activities:

- Reviewer of manuscripts for Cell, Nature and Science family journals, as well many other journals in the Molecular and Cellular Biology and Cancer fields.
- Reviewer of research grant applications for the European Commission and the ERC and for funding agencies of France, Ireland, Italy, Netherlands, Spain, Switzerland, Israel, Poland, United Kingdom and the USA.
- Four patent applications.

Meetings organized:

- 2024 Barcelona Biomed Conference "Molecular Determinants of Cancer Therapy Resistance", Barcelona, Spain (with Marcos Malumbres and Daniel Durocher)
- 2012 The 5th Meeting on "Cancer and Control of Genomic Integrity - CANGENIN", Barcelona, Spain (with Travis Stracker)
- 2011 Barcelona Biomed Conference "Signal Rewiring and Addition in Cancer", Barcelona, Spain (with Tony Hunter)
- 2008 CNIO special workshop "Stress Signalling and Cancer", Madrid, Spain (with Nic Jones and Erwin Wagner)
- 2005 CNIO Cancer Conference "MAP kinases and Cancer", Madrid, Spain (with Philip Cohen, Roger Davis and Chris Marshall)
- 2005 EMBO workshop "Meiotic Divisions and Checkpoints", Corsica, France (with Tim Hunt, Catherine Jesus and Marie-Helene Verlhac)
- 2004 EMBO workshop "Cell Growth and the Cell Cycle. 13th European Cell Cycle Conference", Salamanca, Spain (with Sergio Moreno, Avelino Bueno, Tim Hunt and Paul Nurse)
- 2004 EMBL/Salk/EMBO conference "Oncogenes and Growth Control", Heidelberg, Germany (with Marian Bienz, Gerard Evan, Chris Marshall and Richard Treisman)
- 2002 EMBL/Salk/EMBO conference "Oncogenes and Growth Control", Heidelberg, Germany (with Chris Marshall, Marian Bienz, Dirk Bohmann, Harmut Land and Giulio Superti-Furga)
- 2001 EMBO workshop "G2/M progression and associated checkpoints", Salamanca, Spain (with Tim Hunt, Sergio Moreno and Paul Nurse)
- 1997 EMBO workshop "Meiotic Maturation: Signal transduction pathways and checkpoints controls", Cuenca, Spain (with Tim Hunt)

Mentoring:

Research Associates: Monica Cubillos-Rojas, Begoña Canovas
 Postdoctoral Fellows: Diana Baxter (2022-), Alba Iglesias (2023-), Ismael Sánchez (2024-)
 Graduate Students: Jordi Elvira (2021-), Nerea Gonzalez (2021-),
 Maria Urrutia (2023-)
 Research Technicians: Elisabet Llonch (2011-), Laura Amores (2023-), Maria del Mar Isern
 (2023 -)

Past:*Postdoctoral Fellows:*

Gema Alonso (1995-1998), Anne-Claude Gavin (1996-1999), Amparo Palmer (1996-1999),
 Montserrat Blazquez (1997-1999), Anthi Karaiskou (2000), Magnus Doverskog (2000-2001),
 Concetta Ambrosino (1999-2002), Eusebio Perdiguero (2000-2004), Gaetane Mace (2000-2004),
 Andrea Voegtlin (2002-2004), Markus Schwab (2003-2004), Ana O'Loghlen (2005-2006),
 Juan José Ventura (2005-2007), Silvana Mouron (2005-2008), Matthieu Lemaire (2007-2009),
 Marcial Vilar (2008-2009), Ignacio Torrecilla (2009), Gema Perez (2010),
 Ana Cuadrado (2003-2010), Patricia Gonzalez (2007-2010), Nuria Matesanz (2010),
 Marianna Tedesco (2011), Emma Richet (2012-2014), Natalia Dave (2012-2014),
 Sebastian Real (2010-2015), Mauricio Valerio (2015), Sandra Colie (2011- 2016),
 Petra Mikolcevic (2012-2016), Michitaka Isoda (2012-2016), Joan Josep Bech (2015-2017),
 Elisa Rivas (2010-2017), Ana Igea (2010-2017), Ivan del Barco (2005-2017),
 Marc Nuñez (2016-2018), Manuel Rodriguez (2019), Mariana Regueira (2019-2020),
 Raquel Batlle (2012-2021), Anna Duran (2022-2023)

Ph.D. Students:

Ingvar Ferby (1996-2000), Anja Schmitt (1997-2001), Laurent Perez (1999-2003),
 Gustavo Gutierrez (2000-2004), Ana Dinarina (2002-2006), Ignacio Dolado (2002-2007),
 Nadia Corrado (2005-2008), Vanesa Lafarga (2004-2009), Aneta Swat (2004-2010),
 Josué Ruiz (2005-2010), Lorena Pereira (2008-2013), Jalaj Gupta (2007-2013),
 Natalia Trempolec (2010-2015), Begoña Canovas (2011-2017), Catrin Youssif (2013-2017),
 Jessica Vitos (2011-2018), Konstantin Slobodnyuk (2012-2018), Nuria Gutierrez (2013-2018),
 Laura Gonzalez (2015-2019), Lorena Gonzalez (2016-2021), Yuzhen Dan (2017-2022),
 Clara Borrás (2018-2023), Nevenka Radic (2017-2023)

Member of the PhD thesis advisory committees of about 60 graduate students at EMBL, CNIO and
 IRB Barcelona

Host to 30 visitors (from undergraduate students to professors on sabbatical) who performed
 experimental work at EMBL for 1-6 months (1996-2004).

Member of >40 PhD evaluation committees since 2005.

Angel R. Nebreda

BIBLIOGRAPHY

1. Sanchez, A., **Nebreda, A.R.** and Villa, T.G. (1982). Self-associating properties of yeast exo- β -glucanases are dependent of the ionic strength. *FEBS Lett* 145, 213-216.
2. Sanchez, A., **Nebreda, A.R.**, Villanueva, J.R. and Villa, T.G. (1983). Post-secretional modification of exo-1,3- β -D-glucanases from *Saccharomyces cerevisiae*. *Biochem J* 215, 471-474.
3. Esteban, R., **Nebreda, A.R.**, Villanueva, J.R. and Villa, T.G. (1984). Possible role of cAMP in the synthesis of β -glucanases and β -xylanases of *Bacillus circulans* WL-12. *FEMS Microbiol Lett* 23, 91-94.
4. Esteban, R., **Nebreda, A.R.** and Villa, T.G. (1984). Synthesis and regulation of *Bacillus circulans* WL-12 1,3- β -D-glucanases. *J Gen Microbiol* 130, 2483-2487.
5. Larriba, G., Villa, T.G., **Nebreda, A.R.**, Olivero, I., Hernandez, L.M, Sanchez, A. and Ramirez, M. (1984). Book Chapter - Exoglucanases in *Saccharomyces cerevisiae*: chemical nature, regulation, secretory pathway and cellular location, in *Microbial Cell Wall Synthesis and Autolysis*, edited by Nombela, C., Elsevier Science Publishers (Amsterdam), pp. 239-248.
6. **Nebreda, A.R.**, Villa, T.G., Villanueva, J.R. and del Rey, F. (1986). Cloning of genes related to exo- β -glucanase production in *Saccharomyces cerevisiae*: characterization of an exo- β -glucanase structural gene. *Gene* 47, 245-259.
7. **Nebreda, A.R.**, Vazquez, C.R., Villa, T.G., Villanueva, J.R. and del Rey, F. (1987). Heterogeneous glycosilation of the *EXG1* gene product accounts for the two extracellular exo- β -glucanases of *Saccharomyces cerevisiae*. *FEBS Lett* 220, 27-30.
8. Santos, E., **Nebreda, A.R.**, Bryan, T. and Kempner, E.S. (1988). Oligomeric structure of p21 *ras* proteins as determined by radiation inactivation. *J Biol Chem* 263, 9853-9858.
9. Sorrentino, V., **Nebreda, A.R.**, Alonso, T. and Santos, E. (1989). Preparation, characterization and properties of monoclonal antibodies against intact H-*ras* p21 proteins. *Oncogene* 4, 215-221.
10. Santos, E. and **Nebreda, A.R.** (1989). Review - Structural and functional properties of *ras* proteins. *FASEB J* 3, 2151-2163.
11. Vazquez de Aldana, C.R., Correa, J., San Segundo, P., Bueno, A., **Nebreda, A.R.**, Mendez, E. and del Rey, F. (1991). Nucleotide sequence of the exo-1,3- β -glucanase-encoding gene, *EXG1*, of the yeast *Saccharomyces cerevisiae*. *Gene* 97, 173-182.
12. **Nebreda, A.R.**, Martin-Zanca, D., Kaplan, D., Parada, L. and Santos, E. (1991). Induction by NGF of meiotic maturation of *Xenopus* oocytes expressing the *trk* protooncogene product. *Science* 252, 558-561.
13. **Nebreda, A.R.**, Bryan, T., Segade, F., Wingfield, P., Venkatesan, S. and Santos, E. (1991). Biochemical and biological comparison of HIV-1 NEF and *ras* gene products. *Virology* 183, 151-159.
14. Daar, I., **Nebreda, A.R.**, Yew, N., Sass, P., Paules, R., Santos, E., Wigler, M. and Vande Woude, G.F. (1991). The *ras* oncoprotein and M-phase activity. *Science* 253, 74-76.
15. Benito, M., Porras, A., **Nebreda, A.R.** and Santos, E. (1991). Differentiation of 3T3-L1 fibroblasts to adipocytes induced by transfection of *ras* oncogenes. *Science* 253, 565-568.
16. Venkatesan, V., Holland, S.M., **Nebreda, A.R.**, Ahmad, N., Maitra, R.K., Park, H., Wingfield, P. and Santos, E. (1991). Book Chapter - Regulation of the HIV-1 genome: functional studies of REV, NEF and cis regulatory sequences, in *Genetic Structure and Regulation of HIV*, edited by Haseltine, W. and Wong-Staal, F., Raven Press (New York), pp. 323-344.
17. Daar, I., Zhou, R., Shen, R.-L., **Nebreda, A.R.**, Oskarsson, M., Santos, E., Pinto da Silva, P., Masui, Y. and Vande Woude, G.F. (1991). Review - Mos and Ras, two oncoproteins that display M-phase activity. *Cold Spring Harbor Symp Quant Bio.* LVI, 477-488.
18. Graziani, G., **Nebreda, A.R.**, Srivastava, S., Santos, E. and Eva, A. (1992). Induction of *Xenopus* oocyte meiotic maturation by *dbl* oncogene product. *Oncogene* 7, 229-235.

19. **Nebreda, A.R.**, Segade, F. and Santos, E. (1992). Review - The *nef* gene products: biochemical properties and effects on host cell functions. *Res Virology* 143, 55-59.
20. Porras, A., **Nebreda, A.R.**, Benito, M. and Santos, E. (1992). Activation of Ras by Insulin in 3T3 L1 cells does not involve GTPase-activating protein phosphorylation. *J Biol Chem* 267, 21124-21131.
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22. **Nebreda, A.R.** and Hunt, T. (1993). The *c-mos* protooncogene protein kinase turns on and maintains the activity of MAP kinase, but not MPF, in cell-free extracts of *Xenopus* oocytes and eggs. *EMBO J* 12, 1979-1986.
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28. **Nebreda, A.R.**, Gannon, J.V. and Hunt, T. (1995). Newly synthesised protein(s) must associate with p34^{cdc2} to activate MAP kinase and MPF during progesterone-induced maturation of *Xenopus* oocytes. *EMBO J* 14, 5597-5607.
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34. Palmer, A., Gavin, A.C. and **Nebreda, A.R.** (1998). A link between MAP kinase and p34cdc2/cyclin B during oocyte maturation: p90rsk phosphorylates and inactivates the p34cdc2 inhibitory kinase Myt1. *EMBO J* 17, 5037-5047.
35. Dorey, K., Barila, D., Gavin, A.C., **Nebreda, A.R.** and Superti-Furga, G. (1999). Regulation of human c-Abl tyrosine kinase activity in *Xenopus* oocytes and acceleration of progesterone-induced G2/M transition by oncogenic forms. *Biol Chem* 380, 223-230.
36. Gavin, A.C. and **Nebreda, A.R.** (1999). A MAP kinase docking site is required for phosphorylation and activation of p90rsk/MAPKAP kinase-1. *Curr Biol* 9, 281-284.
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39. Gavin, A.C., Ainle, A.N., Chierici, E., Jones, M. and **Nebreda, A.R.** (1999). A p90rsk mutant constitutively interacting with MAP kinase uncouples MAP kinase from p34cdc2/cyclin B activation in *Xenopus* oocytes. *Mol Biol Cell* 10, 2971-2986.
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58. Perez, L.H., Antonio, C., Flament, S., Vernos, I. and **Nebreda, A.R.** (2002) Xkid chromokinesin is required for the meiosis I to meiosis II transition in *Xenopus* oocytes. *Nature Cell Biol* 4, 737-742.
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70. Cheung, P.C.F., **Nebreda, A.R.** and Cohen, P. (2004). **TAB3, a new binding partner of the protein kinase TAK1.** *Biochem J* 378, 27-34.
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H-Index 81

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