



Alessio Balzerano

Date of birth: 02/07/1989 | **Place of birth:** Rome, Italy | **Nationality:** Italian | **Phone number:**

(+39) 3395340004 (Mobile) | **Email address:** alessio.balzerano@gmail.com |

Address: Via delle ginestre, 5, 01034, Fabrica di Roma (VT), Italy (Home)

● WORK EXPERIENCE

POST-DOCTORAL FELLOWSHIP – UNIVERSITY OF ROME "LA SAPIENZA" - LAB OF MOLECULAR ONCOLOGY - DEPARTMENT OF MOLECULAR MEDICINE – 01/2023 – Current – ROME, ITALY

Research activity: study of non-canonical roles of the DNA damage protein NBS1; identification of a new role of NBS1 in the control of the primary ciliogenesis, Sonic Hedgehog signaling (SHH) and SHH-medulloblastoma.

FELLOWSHIP – UNIVERSITY OF ROME - ISTITUTO PASTEUR - FONDAZIONE CENCI-BOLOGNETTI – 10/2022 – 12/2022 – ROME, ITALY

Research activity: exploring role of the protein NBS1 at the centrosome and BB by biochemical enrichment and immunofluorescence analysis.

FIXED-TERM COLLABORATION CONTRACT – UNIVERSITY OF TUSCIA – 06/2022 – 09/2022 – VITERBO, ITALY

Research activity: study the role of CSA protein at the centrosome and in the regulation of Cyclin B1.

POST-DOCTORAL FELLOWSHIP – UNIVERSITY OF TUSCIA-UNIT OF MOLECULAR GENETICS OF AGING-DEP. OF BIOLOGICAL AND ECOLOGICAL SCIENCES – 06/2019 – 05/2022 – VITERBO, ITALY

Research activity: definition of the molecular mechanisms by which CSA protein promotes the activation of the PI3K/Akt pathway in breast cancer. Study of the dynamic localization of Akt and CSA proteins during the cell cycle and in response to specific mitogenic signals.

● EDUCATION AND TRAINING

11/2015 – 05/2019 Viterbo, Italy

PHD University of Tuscia-Unit of Molecular Genetics of Aging-Dep. of Ecological and Biological Sciences

05/2015 – 09/2015 Cambridge, United Kingdom

TRAINEESHIP University of Cambridge - Department of Haematology

02/2015 Viterbo, Italy

MASTER DEGREE IN CELLULAR AND MOLECULAR BIOLOGY (110/110 WITH HONOURS) University of Tuscia - Dep. of Ecological and Biological Sciences

12/2012 Viterbo, Italy

BACHELOR DEGREE IN BIOLOGICAL SCIENCES (110/110 WITH HONOURS) University of Tuscia - Dep. of Ecological and Biological Sciences

● **SKILLS**

Laboratory techniques

human and murine culture | DNA/RNA/protein extraction | Western blot | qRT-PCR | PCR | co-immunoprecipitation | Proximity Ligation Assay | biotin-based proximity labeling | immunofluorescence | confocal microscopy | U-ex microscopy | molecular cloning | mutagenesis | ChIP | transfection | viral transduction | H&E staining and immunochemistry | cell viability/apoptosis assays | mice manipulation

Data analysis and software

GraphPad Prism | ImageJ/Fiji | SnapGene | ZEN blue 3.5 | Microsoft Office Suite | R (basic knowledge)

Soft skills

Critical thinking | Attention to detail | Team-work oriented | Good listener and communicator | Problem solving | Organizational and planning skills

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **HONOURS AND AWARDS**

Avvio alla Ricerca 2024 – University of Rome "La Sapienza"

Title: Dissecting the role of NBS1 at the centrosome/basal body and its involvement in cancer initiation and progression

Avvio alla Ricerca 2023 – University of Rome "La Sapienza"

Title: Characterization of the interactome of Nijmegen breakage syndrome (NBS1) protein at the Basal Body of Primary Cilia to dissect its role in SHH-medulloblastoma

● **CONFERENCES AND SEMINARS**

2024 Verona, Italy

Oral presentation – “A novel regulatory role of NBS1 at the primary cilium impinges on cerebellar development and medulloblastoma insurgence”. BraYn

2024 Milano, Italy

Oral and poster presentation – “The DDR protein NBS1 is involved in the Sonic Hedgehog signaling and medulloblastoma onset through an unpredicted role at the primary cilium”. SIC

2023 Istanbul, Turkey

Poster presentation – “DNA damage does affect neither the localization of NBS1 at the centrosome/ basal body nor the primary ciliogenesis”. EMBO

2021 online

Poster presentation – “CSA regulates the activation of Akt through its K63-linked ubiquitination”. AGI
