

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n.____ posto/i di Ricercatore a tempo determinato in tenure track (RTT)
per il gruppo scientifico-disciplinare 05/BIOS-08 - Biologia molecolare ,
settore scientifico-disciplinare BIOS-08/A - Biologia molecolare _
presso il Dipartimento di _Dipartimento di BIOSCIENZE __,
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complessivi n. 2 posti.Codice concorso 5628

[Cristina Zibetti] CURRICULUM VITAE

(N.B. IL CURRICULUM NON DEVE ECCEDERE LE 30 PAGINE E DEVE CONTENERE GLI ELEMENTI CHE IL CANDIDATO
RITIENE UTILI AI FINI DELLA VALUTAZIONE.

LE VOCI INSERITE NEL FACSIMILE SONO A TITOLO PURAMENTE ESEMPLIFICATIVO E POSSONO ESSERE INTEGRATE)

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	ZIBETTI
NOME	CRISTINA

TITOLI

TITOLO DI STUDIO

(indicare la Laurea conseguita inserendo tipologia e relativo punteggio, Ateneo, titolo della tesi, data di conseguimento, ecc.)

Laurea in Biotecnologie Mediche, 108/110 (July 13th, 2005), Unimi.
Master in Biotecnologie mediche e medicina molecolare 110/110 magna cum laude (Oct 9th, 2007),
Unimi.

TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

(inserire tipologia del titolo e relativo punteggio, Ateneo, titolo della tesi, data di conseguimento, ecc.)

Dottorato di ricerca in Biotecnologie applicate alle scienze mediche (Dec 20th 2010).
<https://air.unimi.it/handle/2434/150261>.
Biotecnologie applicate alle Scienze Mediche, Ciclo XXIII, BIO/13- Biologia applicata, December 2010,
Universita' degli Studi di Milano, 2010.
"ALTERNATIVE SPLICING AND PHOSPHORYLATION PROVIDE A MECHANISTIC BASIS FOR FUNCTIONAL
SPECIALIZATION OF LSD1/KDM1 HISTONE DEMETHYLASE IN THE CENTRAL NERVOUS SYSTEM"

CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI

(per ciascun contratto stipulato, inserire tipologia, università/ente, durata in anni / data di inizio e fine, ecc.)

Marie Skłodowska Curie research fellow, Feb 2020 - Jul 2022
Project proposer, Copyright holder,
Investigator, RPE Research Unit, IP owner
University of Oslo, Institute of Clinical Medicine, Department of
Ophthalmology, Oslo, Norway

Postdoctoral fellow , Jun 2011-May 2012; June 2012-May 2013; June 2013-May 2014; June 2014-May 2015; June 2015-May 2016; June 2016-May 2017; June 2017-Aug 2017.
The Johns Hopkins University School of Medicine Dept Neuroscience

ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

(inserire tipologia dell'attività, periodo [gg/mm/aa inizio e fine], anno accademico, ateneo, denominazione del corso, numero ore/CFU, ecc.)

- Co-supervisor, Masters students, PhD candidates, Medical Biotechnologies, University of Milan, Milan, Italy.
- Teaching assistant, laboratory instructor ("Cultore della materia"), CusMiBio, University of Milan, Milan, Italy.

DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI

(inserire tipologia dell'attività, anno/anno accademico, ente, periodo, impegno in termini orari, ecc.)

Marie Skłodowska Curie research fellow, Feb 2020 - Jul 2022
Project proposer, Copyright holder, Investigator, RPE Research Unit, IP owner
University of Oslo, Institute of Clinical Medicine, Department of Ophthalmology, Oslo, Norway
The prerogative of the Marie Skłodowska Curie (MSCA) actions is to:
"Stimulate and promote the career development of experienced researchers who show considerable promise to be Europe's future scientific leaders"

- Developed, successfully implemented and tested a model of human stem-cells derived retinal pigmented epithelium (RPE) intended for autologous transplantation therapies to restore vision. This ocular tissue is affected in age-related macular degeneration, a leading cause of blindness in the elderly that is predicted to affect 288 million individuals in western countries by 2040.
- Proposed an innovative pipeline to i) investigate the epigenome contribution to the induction and maintenance of the RPE cell fate ii) model age-related macular degeneration iii) perform drugs screening and genome-editing studies in precision medicine.
Such pipeline is applicable to other neurodegenerative and complex, multifactorial diseases.
- Partook in public outreach initiatives:
<https://www.blindeforbundet.no/om-blindeforbundet/medlemsbladet-synspunkt/nr-3-2021>
- Overall estimated grant amount for all the Scientia Fellows Research Units (MSCA CoFUND grant agreement 801133) received and managed by the beneficiary host institution: EUR 8.850.000 (2019-2024).
- Financed the RPE Research Unit by the hosting laboratory and its Scientia Fellows affiliates.

Postdoctoral fellow 2011-2017, The Johns Hopkins University School of Medicine

- Key contributor. Introduced unprecedented expertise, exploratory epigenetic profiling methods and related workflows into the hosting laboratory for the identification of candidate regulatory elements of the genome.
- Optimized, implemented and analyzed high-throughput sequencing methods in the developing mouse and diseased human retina by integration of transcriptional profiling (RNA-Seq), open chromatin profiling, transcription factors footprints identification (ATAC-Seq) and histone methylation profiling (ChIP-Seq) from purified retinal progenitors and committed Muller glia precursors generating the entire repositories NIH GEO GSE99818 and GSE118880.
Profiled human retinae and RPE affected by age-related macular degeneration and stem cells models of oxidative and mitochondrial stress paradigms, generating the entire repository GSE99287.

- Characterized the regulatory function of transcription factors in divergent retinal specification programs and contributed to the preliminary screening of developmentally regulated retinal lincRNAs.
- Sustained continued funding over the years (US NIH National Eye Institute and Chan Zuckerberg), financial stability, promotional opportunities, initiatives to promote diversity for the related hosting laboratory affiliates and collaborating entities. The list of contributed grants and allocated amount is available upon request (2011-2017) and may include subsequent grants.
- Overall estimated NIH NEI funding received by the hosting lab: over 5 million USD.

DOCUMENTATA ATTIVITÀ IN CAMPO CLINICO

(indicare, data, durata, ruolo, ente presso il quale si è prestata attività assistenziale, ecc.)

n/a

REALIZZAZIONE DI ATTIVITÀ PROGETTUALE

(indicare descrizione dell'attività, durata, eventuale ente a favore del quale è stata realizzata l'attività, ecc.)

Marie Skłodowska Curie research fellow, Feb 2020 - Jul 2022
Project proposer, Copyright holder,
Investigator, RPE Research Unit, IP owner
University of Oslo, Institute of Clinical Medicine, Department of
Ophthalmology, Oslo, Norway

Horizon 2020
MSCA CoFUND grant agreement 801133

ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI CENTRI O GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI O PARTECIPAZIONE AGLI STESSI

(per ciascuna voce inserire tipologia di progetto, titolo del progetto, anno, durata, eventuale ente finanziatore e importo del finanziamento, ruolo, gruppo di ricerca, ecc.)

Marie Skłodowska Curie research fellow, Feb 2020 - Jul 2022
Project proposer, Copyright holder,
Investigator, RPE Research Unit, IP owner
University of Oslo, Institute of Clinical Medicine, Department of
Ophthalmology, Oslo, Norway
Horizon 2020
MSCA CoFUND grant agreement 801133

Contributor and Instructor of a NIH, NEI, U01 EY027267-01 cooperative grant agreement, spearheading functional studies in retinal progenitor cells and generation of high-throughput sequencing libraries. 2016,2017

TITOLARITÀ DI BREVETTI

(per ciascun brevetto, inserire autori, titolo, tipologia [nazionale o internazionale], anno, numero brevetto, ecc.)

Disclosure of Invention September 20th, 2022, Inven2, Norway, DOFI 22068

ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

(inserire titolo congresso/convegno, data, durata in giorni/ore, ente organizzatore, ecc.)

Invited moderator at the Gordon Research Seminars, Visual System Development, Mount Snow, VT 2016 Gordon Research Conference, Visual System Development, Mount Snow, VT, 2016.

Invited speaker:

1. ISER XXIII Biennial meeting, September 9-13, 2018, Belfast, Northern Ireland. Zibetti C.*, Epigenomic profiling of retinal progenitor cells unveils developmentally regulated reliance of open chromatin on the transcription factor Lhx2.
2. ISER XXII Biennial Meeting, September 25-29, 2016, Tokyo, Japan. Zibetti C.*, Liu S., Wan J., Qian J. and Blackshaw S. Integrated ChIPSeq analysis and epigenomic profiling of early and late stage retinal progenitor cells identifies a central role for Lhx2 in controlling developmentally regulated modules of coordinately accessible chromatin
3. ISER XXI Biennial Meeting, July 20-24, 2014, San Francisco, CA, USA. Zibetti C.*, Hu J., Hwang H., O'Brien D., H. Zhang H., Qian J., Blackshaw S. Lhx2 Chip-Seq analysis identifies target genes controlling progenitor maintenance and lineage commitment in early postnatal murine retina.
4. A.I.B.G. October 8-10, 2009, Palermo, Italy, Zibetti C.*, Mattevi A., Sala C., Ginelli E., Battaglioli E. Alternative splicing in the mammalian nervous system endows the histone demethylase LSD1/KDM1 of the ability to induce neurite morphogenesis

CONSEGUIMENTO DI PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA

(inserire nome e motivazione del premio, data, ente erogatore, ecc.)

Awards:

Marie Skłodowska-Curie fellowship, University of Oslo, Faculty of Medicine, Oslo, Norway, 02.2020-07.2022

Post-doctorate, Research award in Neuroscience, Johns Hopkins University, School of Medicine, Solomon Snyder Department of Neuroscience, Baltimore, MD, USA, 06.2011-08.2017

Young investigator travel fellowship, the International Society for Eye Research, ISER XXI, 2014

Doctoral fellowship, PhD candidate, University of Milan, 10.2007-12.2010

POSSESSO DEL DIPLOMA DI SPECIALIZZAZIONE EUROPEA RICONOSCIUTO DA BOARD INTERNAZIONALI (relativamente a quei settori concorsuali nei quali è prevista)

(indicare ambito di conseguimento del diploma, data di conseguimento, ente che ha rilasciato il diploma, ecc.)

n/a

TITOLI DI CUI ALL'ARTICOLO 24 COMMA 3 LETTERA A) E B) DELLA LEGGE 30 DICEMBRE 2010, N. 240
(indicare se contratto di tipologia A o B, Ateneo, data di decorrenza e fine contratto/periodo/durata in anni, ecc.)

Postdoctoral fellowships (see CV enclosed)

PRODUZIONE SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

(per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente)

- 1. 10.3390/cells11050806
- 2. 10.1016/j.cels.2019.04.004
- 3. 10.1038/s42003-019-0375-9
- 4. 10.1038/s41467-018-03856-y
- 5. 10.1242/dev.159970
- 6. 10.1186/s12859-017-1769-7
- 7. 10.1242/dev.137760
- 8. 10.1523/JNEUROSCI.3145-15.2016
- 9. 10.1523/JNEUROSCI.1711-14.2014
- 10. 10.1073/pnas.1107488109
- 11. 10.1523/JNEUROSCI.0119-10.2010
- 12. 10.1523/JNEUROSCI.5500-09.2010

Peer-reviewed publications:

1. Zibetti C. (2022) Deciphering the Retinal Epigenome during Development, Disease and Reprogramming: Advancements, Challenges and Perspectives. Cells 2022, 11(5), 806. (Sole author).
 2. Stein-O'Brien G. L.*, Clark B. S.*, Sherman T., Zibetti C. •, Hu Q., Sealton R., Liu S., Qian S., Colantuoni C., Blackshaw S., Goff L.A., Fertig E.J. (2019) Decomposing Cell Identity for Transfer Learning across Cellular Measurements, Platforms, Tissues and Species. Cell Systems 8, 395-411 (•generated the entire repository GSE118880. Published after CZ's affiliation had ended).
 3. Zibetti C. ** •, Liu S., Wan J., Qian J. Blackshaw S. (2019) Epigenomic profiling of retinal progenitors reveals LHX2 is required for developmental regulation of open chromatin. Commun. Biol., Apr 25; 2, (142) (** first and corresponding author; • generated the entire repository GSE99818. Published after CZ's affiliation had ended).
Authored by CZ in 02/2017; submitted by the laboratory host for peer-review in 06/2017 and rejected; uploaded in 12/2017 by the host as <https://www.biorxiv.org/content/10.1101/238279v2.full>; published by CZ in 04/2019)
 4. Wang J.* Zibetti C.* •, Shang P., Sripathi S., Zhang P., Cano M., Hoang T., Xia S., Ji H., Merbs S., Zack D., Handa J., Sinha D., Blackshaw S., Qian J. (2018) ATAC-Seq analysis reveals a widespread decrease of chromatin accessibility in age-related macular degeneration. Nat. Commun. Apr 10; 9(1):1364. (*equal contribution; •generated the entire repository GSE99287. Published after CZ's affiliation had ended).
- Qualities

5. De Melo J., Clark B., Venkataraman A., Shiao F., Zibetti C., Blackshaw S. (2018) Ldb1 and Rnf12- dependent regulation of Lhx2 controls the relative balance between neurogenesis and gliogenesis in retina. *Development*. Apr 30;145(9).
6. Liu S., Zibetti C. , Wan J., Wang G., Blackshaw S., Qian J. (2017) Assessing the model transferability for prediction of transcription factor binding sites based on chromatin accessibility. *BMC Bioinformatics*, 18(1), 355, 2017.
7. Thein T., de Melo J, Zibetti C. , Clark B., Juarez F., Blackshaw S. (2016) Control of lens development by Lhx2-regulated neuro-retinal FGFs. *Development*, 143: 3994-4002.
8. De Melo J., Zibetti C. , Clark B., Hwang W., Miranda-Angulo A., Qian J. , Blackshaw S. (2016) Lhx2 is an essential factor for retinal gliogenesis and Notch signaling. *J. Neurosci.*, 36 (8) 2391-2405.
9. Salvatierra J., Lee D.A, Zibetti C., Duran M., Yoo S., Newman E.A., Wang H., Bedont J.B., de Melo J., Miranda-Angulo A., Aja A., Garcia S. , Garcia-Verdugo J. M., Blackshaw S. (2014) The LIM homeodomain factor Lhx2 is required for hypothalamic tanycyte specification and differentiation. *J. Neurosci.*, 34 (50) 16809-16820.
10. De Melo J., Miki K., Rattner A., Smallwood P., Zibetti C. , Hirokawa K., S Monuki E., Campochiaro P, Blackshaw S. (2012) Injury-independent induction of reactive gliosis in retina by loss of function of the Lim homeodomain transcription factor Lhx2. *Proc. Natl. Acad. Sci. USA*. Mar 20;109(12):4657-62.
11. Verpelli C., Piccoli G., Zibetti C. , Zanchi A., Gardoni F., Huang K., Brambilla D., Di Luca M., Battaglioli E. and Sala C. (2010) Synaptic activity controls dendritic spine morphology by modulating eEF2-dependent BDNF synthesis. *J. Neurosci*. Apr 28;30(17):5830-42.
12. Zibetti C. , Adamo A., Binda C., Forneris F., Toffolo E., Verpelli C., Ginelli E., Mattevi, A. Sala C. and Battaglioli E. (2010) Alternative splicing of the histone demethylase LSD1/KDM1 contributes to the modulation of neurite morphogenesis in the mammalian nervous system. *J. Neurosci.* 17;30(7):2521-32

Data

21- 10-2024

Luogo

Caravaggio, BG, Italy

Cristina Zibetti

Experimentally proficient scientist in molecular, stem cell biology, epigenetics and functional genomics.

✉ zibettic(at)gmail.com; zibettic(at)pecprivato.it October 21st 2024

Profile

Experimentally proficient biologist with multidisciplinary experience in molecular, neurodevelopmental, stem cell biology, epigenetics and functional genomics. Recipient of a post-doctoral award at a renowned institution in the USA for substantial and continued research contributions in next-generation sequencing achieving, individually, the productivity of a genomic consortium (over 245 batch libraries). Recipient of a merit-based Marie Skłodowska Curie fellowship for the proposal of an innovative human stem-cells based epigenomic pipeline for customized treatment of blindness as in age-related macular degeneration. Such pipeline is also applicable to complex, multi-factorial conditions. Computational interrogation of data repositories for the unbiased identification of gene ontologies and candidate therapeutic targets; ability to prioritize functional studies for personalized medicine by genome-editing.

Education

Ph.D., Biotechnology applied to the medical sciences	Dec 2010
University of Milan, Dept. Biology and Genetics for Medical Science, Milan, Italy	
MS, Medical Biotechnology and Molecular Medicine in Neuroscience, Magna Cum Laude	Oct 2007
University of Milan, Faculty of Medicine and Surgery, Milan, Italy	
BS, Medical Biotechnology	Jul 2005
University of Milan, Division of Neuromuscular Pathology, Neurological Institute Carlo Besta, Milan, Italy	

Employment

Independent researcher Aug 2022 – present
Data Analysis for publication of peer-reviewed scientific manuscripts.

Marie Skłodowska Curie research fellow, Feb 2020 – Jul 2022
Project proposer, Copyright holder,
Investigator, RPE Research Unit, IP owner
University of Oslo, Institute of Clinical Medicine, Department of Ophthalmology, Oslo, Norway
The prerogative of the Marie Skłodowska Curie (MSCA) actions is to:
“Stimulate and promote the career development of experienced researchers who show considerable promise to be Europe’s future scientific leaders ”

Personal details

Website

Orcid: <https://orcid.org/0000-0003-4922-1245>

LinkedIn

[linkedin.com/in/cristinazibetticz](https://www.linkedin.com/in/cristinazibetticz)

Skills

Empirical skills

- Bacterial cloning • mutagenesis
- genotyping • genomic sequencing • Real Time RT-qPCR
- fluorescent labelled qPCR for microsatellite sequencing
- custom primer design (800 to date from human, mouse and rat genome) • splice specific shRNA-based RNAi design and generation • capillary electrophoresis • SDS-PAGE western blot • Nucleic acids isolation, purification and size selection by SPRI (solid-phase reversible immobilization) • protein extraction • Tissue microdissection • Maintenance and genotyping of animal models
- Chromatin immunoprecipitation
- acidic silver staining for MALDI-TOF processing • Co-immunoprecipitation assays • Cell cultures
- primary cultures • flow cytometry • immunohisto/cytochemistry • Confocal imaging
- morphometric analysis of dendritic spines • Transfection, bioluminescence reporter assays
- blood fractionation • immunomagnetic purification

- Developed, successfully implemented and tested a model of human stem-cells derived retinal pigmented epithelium (RPE) intended for autologous transplantation therapies to restore vision. This ocular tissue is affected in age-related macular degeneration, a leading cause of blindness in the elderly that is predicted to affect 288 million individuals in western countries by 2040.

- Proposed an innovative pipeline to i) investigate the epigenome contribution to the induction and maintenance of the RPE cell fate ii) model age-related macular degeneration iii) perform drugs screening and genome-editing studies in precision medicine.

Such pipeline is applicable to other neurodegenerative and complex, multifactorial diseases.

- Partook in public outreach initiatives:

<https://www.blindeforbundet.no/om-blindeforbundet/medlemsbladet-synspunkt/nr-3-2021>

- Overall estimated grant amount for all the Scientia Fellows Research Units (MSCA CoFUND grant agreement 801133) received and managed by the beneficiary host institution: EUR 8.850.000 (2019-2024).

- Financed the RPE Research Unit by the hosting laboratory and its Scientia Fellows affiliates.

Independent researcher

Sep 2017 – Jan 2020

Baltimore, MD, USA

Dissemination of research at international conferences as invited speaker and poster presenter. Publication of peer-reviewed scientific manuscripts. Submission of my 2019 MSCA Career Restart project

Post-doctoral fellow

The Johns Hopkins University, Solomon Snyder Dept. Neuroscience,

Baltimore, MD, USA

Jun 2011 – Aug 2017

- Key contributor. Introduced unprecedented expertise, exploratory epigenetic profiling methods and related workflows into the hosting laboratory for the identification of candidate regulatory elements of the genome.

- Optimized, implemented and analyzed high-throughput sequencing methods in the developing mouse and diseased human retina by integration of transcriptional profiling (RNA-Seq), open chromatin profiling, transcription factors footprints identification (ATAC-Seq) and histone methylation profiling (ChIP-Seq) from purified retinal progenitors and committed Muller glia precursors generating the entire repositories NIH GEO GSE99818 and GSE118880. Profiled human retinae and RPE affected by age-related macular degeneration and stem cells models of oxidative and mitochondrial stress paradigms, generating the entire repository GSE99287.

- Characterized the regulatory function of transcription factors in divergent retinal specification programs and contributed to the preliminary screening of developmentally regulated retinal lincRNAs.

- Sustained continued funding over the years (US NIH National Eye Institute and Chan Zuckerberg), financial stability, promotional opportunities, initiatives to promote diversity for the related hosting laboratory affiliates and collaborating entities. The list of contributed grants and allocated amount is available upon request (2011-2017) and may include subsequent grants.

- Overall estimated NIH NEI funding received by the hosting lab: over 5 million USD.

- Sandwich ELISA and 4 parameter logistics analysis
- Extensive implementation of protein-DNA methods from tissue biopsies to primary cultures for solid, reproducible results
- Libraries barcoding for multiplexed (pooled) samples at the desired sequencing depth
- Proficiency in ChIP-Seq, ATAC-Seq, RNA-Seq from primary cultures, iPSCs, murine and human retinal tissue
- Reprogramming of human somatic cells for generation of iPSCs and retinal pigmented epithelium
- Scientific writing
- Editorial correspondence
- Grants writing
- Budget management and itemized justification
- Mitigation strategies, contingency plans

Analytical skills • Familiarity with Unix command-line and graphic user interface-based computational platforms, the inferential aspects and statistical approaches in • ChIP-Seq, ATAC-Seq analytic pipelines implementation and optimization of quality metrics

- peaks calling and annotation
- custom tracks formatting
- Gene Ontology annotation for identification of developmentally regulated signaling transduction pathways
- motif enrichment
- motif clustering and oligos assignment
- Basic statistical and graphical data management on Excel
- GraphPad Prism
- Unix/Linux based OS
- R studio
- Adobe Illustrator

Languages

Italian, native speaker;
American English (proficient, former USA EB1a green card holder); French (basic).

Certificates

NOKUT, The Norwegian Agency for Quality Assurance in Education, Norway Credentials certification	2022
ENIC-NARIC, The European Network of National Information Centres, National Academic Recognition Information Centres, France Credentials certification.	2022
Certificate in Leadership, Management and Supervision, Norway University of Oslo	2020
Silvergate Evaluations, USA Credentials certification	2011
USCIS, The United States Citizenship and Immigration Services and Department of Labor, USA Credentials certification	2011
MIUR, the Italian Ministry of Instruction and Merit, Italy Credentials certification	2011

Achievements

Peer-reviewed publications:

1. **Zibetti C.** (2022) Deciphering the Retinal Epigenome during Development, Disease and Reprogramming: Advancements, Challenges and Perspectives. *Cells* 2022, 11(5), 806. **(Sole author).**
2. Stein-O'Brien G. L.*, Clark B. S.*, Sherman T., **Zibetti C. •**, Hu Q., Sealfon R., Liu S., Qian S., Colantuoni C., Blackshaw S., Goff L.A., Fertig E.J. (2019) Decomposing Cell Identity for Transfer Learning across Cellular Measurements, Platforms, Tissues and Species. *Cell Systems* 8, 395–411 **(•generated the entire repository GSE118880. Published after CZ's affiliation had ended).**
3. **Zibetti C.** •**, Liu S., Wan J., Qian J. Blackshaw S. (2019) Epigenomic profiling of retinal progenitors reveals LHX2 is required for developmental regulation of open chromatin. *Commun. Biol.*, Apr 25; 2, (142) **(** first and corresponding author; • generated the entire repository GSE99818. Published after CZ's affiliation had ended).**
Authored by CZ in 02/2017; submitted by the laboratory host for peer-review in 06/2017 and rejected; uploaded in 12/2017 by the host as <https://www.biorxiv.org/content/10.1101/238279v2.full>; published by CZ in 04/2019)
4. Wang J.* **Zibetti C.* •**, Shang P., Sripathi S., Zhang P., Cano M., Hoang T., Xia S., Ji H., Merbs S., Zack D., Handa J., Sinha D., Blackshaw S., Qian J. (2018) ATAC-Seq analysis reveals a widespread decrease of chromatin accessibility in age-related macular degeneration. *Nat.Comm.* Apr 10; 9(1):1364. **(•equal contribution; •generated the entire repository GSE99287. Published after CZ's affiliation had ended).**

Qualities

- Detail-oriented, resilient, scientifically prolific and well-structured research investigator with a creative, exploratory attitude and visionary mindset. Proven interpersonal skills in the oversight of pipelines for collaborative data analysis. Dedicated and well-read in a vast breadth of research topics. Experienced at grants writing and budget planning, peer-review, scientific publishing and editorial correspondence. Certified leadership and supervision skills. Responsible and traceable financial management. Strategic conflict resolution skills, strong personal ethics and accountability.

5. De Melo J., Clark B., Venkataraman A., Shiao F., **Zibetti C.**, Blackshaw S. (2018) Ldb1 and Rnf12- dependent regulation of Lhx2 controls the relative balance between neurogenesis and gliogenesis in retina. *Development*. Apr 30;145(9).
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7. Thein T., de Melo J., **Zibetti C.**, Clark B., Juarez F., Blackshaw S. (2016) Control of lens development by Lhx2-regulated neuro-retinal FGFs. *Development*, 143: 3994-4002.
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9. Salvatierra J., Lee D.A., **Zibetti C.**, Duran M., Yoo S., Newman E.A., Wang H., Bedont J.B., de Melo J., Miranda-Angulo A., Aja A., Garcia S., Garcia-Verdugo J. M., Blackshaw S. (2014) The LIM homeodomain factor Lhx2 is required for hypothalamic tanycyte specification and differentiation. *J. Neurosci.*, 34 (50) 16809-16820.
10. De Melo J., Miki K., Rattner A., Smallwood P., **Zibetti C.**, Hirokawa K., S Monuki E., Campochiaro P., Blackshaw S. (2012) Injury-independent induction of reactive gliosis in retina by loss of function of the Lim homeodomain transcription factor Lhx2. *Proc. Natl. Acad. Sci. USA*. Mar 20;109(12):4657-62.
11. Verpelli C., Piccoli G., **Zibetti C.**, Zanchi A., Gardoni F., Huang K., Brambilla D., Di Luca M., Battaglioli E. and Sala C. (2010) Synaptic activity controls dendritic spine morphology by modulating eEF2-dependent BDNF synthesis. *J. Neurosci.* Apr 28;30(17):5830-42.
12. **Zibetti C.**, Adamo A., Binda C., Forneris F., Toffolo E., Verpelli C., Ginelli E., Mattevi A., Sala C. and Battaglioli E. (2010) Alternative splicing of the histone demethylase LSD1/KDM1 contributes to the modulation of neurite morphogenesis in the mammalian nervous system. *J. Neurosci.* 17;30(7):2521-32
- **Invited moderator** at the Gordon Research Seminars, Visual System Development, Mount Snow, VT 2016 Gordon Research Conference, Visual System Development, Mount Snow, VT, 2016

Invited speaker:

1. ISER XXIII Biennial meeting, September 9-13, **2018**, Belfast, Northern Ireland. Zibetti C.*, Epigenomic profiling of retinal progenitor cells unveils developmentally regulated reliance of open chromatin on the transcription factor Lhx2.
2. ISER XXII Biennial Meeting, September 25-29, **2016**, Tokyo, Japan. Zibetti C.*, Liu S., Wan J., Qian J. and Blackshaw S. Integrated ChIP-Seq analysis and epigenomic profiling of early and late stage retinal progenitor cells identifies a central role for Lhx2 in controlling developmentally regulated modules of coordinately accessible chromatin
3. ISER XXI Biennial Meeting, July 20-24, **2014**, San Francisco, CA, USA. Zibetti C.*, Hu J., Hwang H., O'Brien D., H. Zhang H., Qian J., Blackshaw S. Lhx2 Chip-Seq analysis identifies target genes controlling progenitor maintenance and lineage commitment in early postnatal murine retina.
4. A.I.B.G. October 8-10, **2009**, Palermo, Italy, Zibetti C.*, Mattevi A., Sala C., Ginelli E., Battaglioli E. Alternative splicing in the mammalian nervous system endows the histone demethylase LSD1/KDM1 of the ability to induce neurite morphogenesis.

Awards:

- Marie Skłodowska-Curie fellowship, University of Oslo, Faculty of Medicine, Oslo, Norway, 02.2020–07.2022
- Post-doctorate, Research award in Neuroscience, Johns Hopkins University, School of Medicine, Solomon Snyder Department of Neuroscience, Baltimore, MD, USA, 06.2011–08.2017
- Young investigator travel fellowship, the International Society for Eye Research, ISER XXI, 2014
- Doctoral fellowship, PhD candidate, University of Milan, 10.2007–12.2010

Small grants:

- Research grant by the Arthur og Odd Clausons legat, 2022
- Research grant by the Norges Blindeforbunds forskningsfond, 2020–2021
- Research grant by the Aase Bye og Trygve J. B. Hoff's fond, 2020

Oral presentations:

- The University of Liverpool, Department of Eye and Vision Sciences, July 9th, **2024**. Liverpool, UK. Zibetti C.* Parsing the genome in the Diabetic Retinopathy: Background, Concepts and Future Aims.
- The Truhlsen Eye Institute, July 7th and July 26th **2023**. Omaha, Nebraska, USA. Zibetti C.* Deciphering the Retinal Epigenome During Development, Disease and Reprogramming: New Strategies for Customized Treatment of Neurodegeneration, from piPSC-derived Autologous Transplantation Therapies to Pharmacogenomics and Precision Medicine.
- MERLN Institute for Technology-Inspired Regenerative Medicine, September 13th **2022**, Maastricht, Netherlands. Zibetti C.* Deciphering the retinal epigenome during development, disease and reprogramming: new strategies for customized treatment of neurodegeneration, from piPSC-derived autologous transplantation therapies to pharmacogenomics and precision medicine.
- CNRS, Comité National de la Recherche Scientifique, March 21st, April 13th, 19th, 21st **2022**, Paris, France. Zibetti C.* Deciphering the retinal epigenome during development, disease and reprogramming: new strategies for customized treatment of neurodegeneration, from piPSC-derived autologous transplantation therapies to pharmacogenomics and precision medicine.
- SISSA International School for Advanced Studies in Neuroscience Genomics, October 18th, **2021**, Trieste, Italy. Zibetti C.* Deciphering the retinal epigenome during development, disease and reprogramming: new strategies for customized treatment of neurodegeneration, from piPSC-derived autologous transplantation therapies to pharmacogenomics and precision medicine.
- UZH, Symposium in Experimental and Translational Ophthalmology, Faculty of Medicine, November 26th, **2020**, Zurich, Switzerland, Zibetti C.* Deciphering the retinal epigenome during development, disease and reprogramming: an orthogonal approach to a customized treatment of retinal degeneration, from piPSC derived autologous transplantation therapies to pharmacogenomics and precision medicine.
- St Jude Children's research hospital. March 14th **2019**, Memphis, Tennessee, USA, Zibetti C.* Epigenomic profiling of retinal progenitors reveals Lhx2 is required for developmental regulation of open chromatin.

- Penn State University. February 15th **2019**, Hershey, Pennsylvania, USA, Zibetti C.* Deciphering the retinal epigenome during development and disease: an orthogonal approach towards cancer and precision medicine
- George Mason University, September 25th **2018**, Fairfax, Virginia, USA, Zibetti C.* Deciphering the retinal epigenome during development and disease: an orthogonal approach towards cancer and precision medicine.

Extracurricular activities

Peer-reviewer

2011 - Present

- Peer reviewer for Springer and Wiley (2022-2023), Development, PlosONE (2011-2017)
- Co-supervisor, Masters students, PhD candidates, Medical Biotechnologies, University of Milan, Milan, Italy.
- Teaching assistant, laboratory instructor ("*Cultore della materia*"), CusMiBio, University of Milan, Milan, Italy.

Membership to academic / scientific societies:

- Member, Academic Parity Movement, 2023-present
- Member, MCAA Research Network, Marie Curie Alumni Association, 2020-present
- Affiliate Member, ISSNAF, Italian Scientists and Scholars in North America Foundation, 2020-present
- Member, ISER, International Society for Eye Research, Young investigator and presenter, 2014-present
- Member, SFN, Society for Neuroscience, 2009, 2014

Philosophy statement:

- Support initiatives that address forced mobility, scientific diaspora and sustainable careers in research, as per United Nations recommendations.
- Endorse the DORA and CoARA mission statements on the acknowledgment of scientific contributions beyond citation metrics, citation bias and involuntary discontinuity in the scientific production.
- Reintegration efforts that prioritize applicants on involuntary career breaks over candidates on voluntary breaks (family planning).
- Advocate for fair and undistorted competition practices in the labor market through the international auditing on national US EEOC / EU OSHA and GDPR compliance.
- Co-signatory of the petition to the Ministries of Education and Science, National Academies and International Human Rights Institutions: <https://www.change.org/p/recognize-that-academic-harassment-a-violation-of-human-rights>.

POSTERS PRESENTATIONS

ISER XXIII Biennial meeting, International society for eye research, Belfast, Northern Ireland, 2018

Zibetti C. Epigenomic profiling of retinal progenitor cells unveils developmentally regulated reliance of open chromatin on the transcription factor Lhx2.

Gordon Research Conference, Visual System Development, Barga, Lucca, IT, 2018

- Zibetti C., Liu S., Wan J., Qian J., Blackshaw S. Epigenomic profiling of retinal progenitor cells unveils developmentally regulated reliance of open chromatin on the transcription factor Lhx2.
- Stein-O'Brien G., Clark B., Sherman T., Zibetti C., Blackshaw S., Goff L.A., Fertig E.J. Projection-based deep analysis of retinal development at single cell resolution.

ARVO Annual meeting, Baltimore, MD 2017

Clark B., Thein T., Zibetti C., Aranda-Michel E., Shiau F., Blackshaw S. Identification and characterization of long noncoding RNAs in retinal progenitor cell competence.

ISER XXII Biennial meeting, International society for eye research, Tokyo, Japan, 2016

- Zibetti C., Liu S., Wan J., Qian J., Blackshaw S. Integrated ChIP-Seq analysis and epigenomic profiling of early and late-stage retinal progenitor cells identifies a central role for Lhx2 in controlling developmentally regulated modules of coordinately accessible chromatin.
- Clark B., Thein T., Zibetti C., Aranda-Michel E., Blackshaw S. Identification and Characterization of Long Noncoding RNAs in Retinal Progenitor Cell Competence.

Invited moderator at the Gordon Research Seminars, Visual System Development, Mount Snow, VT

2016 Gordon Research Conference, Visual System Development, Mount Snow, VT, 2016

- Zibetti C., Liu S., Wan J., Qian J., Blackshaw S. ATAC-seq profiling of retinal progenitor cells reveals epigenetic signatures and modules of coordinately accessible chromatin during early postnatal murine development.
- Clark B., Thein T., Zibetti C., Aranda-Michel E., Blackshaw S. Identification and Characterization of lincRNAs that Regulate Retinal Progenitor Competence

Neuroepigenetics, Keystone symposia conference, Santa Fe, NM, 2015

Zibetti C., Wan J., Qian J., Zhang H., Blackshaw S. Genome-wide profiling of Lhx2 binding sites reveals its regulatory role in embryonic and early post-natal retinal precursors

ARVO Annual Meeting, Denver, CO, 2015

Thein T., de Melo J., Zibetti C., Blackshaw S. Control of lens fiber development by Lhx2-regulated neuro-retinal Fgfs

ISER XXI Biennial meeting, International society for eye research, San Francisco, 2014

- Zibetti C., Hu J., Hwang H., O'Brien D., H. Zhang H., Qian J., Blackshaw S. Lhx2 Chip-seq analysis identifies target genes controlling progenitor maintenance and lineage commitment in early postnatal murine retina.
- Blackshaw S., de Melo J., Zibetti C. Control of Notch signaling, progenitor competence and glial and amacrine cell differentiation by Lhx2
- Thein T., De Melo J., Zibetti C. Blackshaw S. Control of lens fiber development by LHX2 regulated FGFs.

Society for Neuroscience SFN 2014, Washington D.C.,2014

- Zibetti C., Hu J., Hwang W., O'Brien D., Zhang H., Qian J., Blackshaw S. Genome-wide profiling of LHX2 binding sites reveals its regulatory role in committed early post-natal retinal precursors
- Clark B., Zibetti C., Blackshaw S. Dynamic expression of lincRNA during mouse retinogenesis.

Genomics and high-throughput biology, Johns Hopkins University, MD,2014

Clark B., Zibetti C. Qian J., Blackshaw S. Dynamic expression of lincRNA during mouse retinogenesis

Gordon research conference, Visual system development, Lucca, IT,2014

Blackshaw S., Zibetti C., De Melo J. LHX2 regulates the Notch signaling and controls the gliogenic competence of retinal progenitors

Molecular mechanisms of neurodegeneration, IV meeting, Milan, IT,2008

Zibetti C., Mattevi A., Sala C., Ginelli E., Battaglioli E. Alternative splicing enhances lysine specific demethylase 1 (LSD1) epigenetic tuneability in the mammalian nervous system

Society for Neuroscience SFN 2008, Washington D.C., poster presenter,2008

Battaglioli E., Zibetti C. Sala C., Mattevi A. Alternative splicing enhances LSD1- Lysine Specific Demethylase 1- epigenetic tuneability in the mammalian nervous system

4th SIBBM Seminar- Frontiers in Molecular Biology,2008

Zibetti C., Adamo A., Scatà G. , Sala C., Mattevi A., Battaglioli E. Alternative splicing as possible contributor to LSD1 epigenetic tuneability in the mammalian nervous system

F.I.S.V. 2007- Federazione italiana scienze della vita, Riva del Garda, IT,2007

Adamo A., Zibetti C., Dall'Aglio A., Borali A., Mattevi A., Ginelli E., Battaglioli E. Identification and functional characterization of novel mammal-specific LSD1 splice isoforms.

A.I.B.G., Associazione italiana di Biologia e Genetica, Torino, IT,2007

Battaglioli E., Adamo A., Zibetti C., Dall'Aglio A., Ginelli E. Mammalian evolution of neuro-specific LSD1 isoforms with autoregulatory functions.

The Johns Hopkins University

School of Medicine

Baltimore



Maryland

This Certificate is awarded to

Cristina Zibetti

Upon Completion of a Research Fellowship in
Neuroscience

June 1, 2011 to August 31, 2017

Richard I. Huganir

Director of Department

Paul A. DeLuca

Dean of the Medical Faculty



Brussels, 29 August 2022

Certificate of Award

Cristina Zibetti

was awarded in 2020 a

MARIE SKŁODOWSKA-CURIE Fellowship

as part of the EU-funded project

SCIENTIA-FELLOWS II: International Postdoctoral
Fellowship Programme
(SCIENTIA-FELLOWS II)

Begoña Arano
Head of Department 'Excellent Science'
Research Executive Agency

JOHNS HOPKINS
UNIVERSITY

School of Medicine

Broadway Research Building, Suite 147
733 North Broadway
Baltimore, MD 21205-2196
(410) 955-3080 / FAX (410) 955-0826

Office of Postdoctoral Programs

12/15/2011

Dr. Cristina Zibetti
Department of Neuroscience

* Registration has been completed *

This letter is to officially confirm your Johns Hopkins
University School of Medicine Fellowship Appointment.

used for Ref
Letters

Dear Dr. Zibetti:

I am pleased to inform you that you have been accepted as a fellow in the:

Department of Neuroscience

for the period: July 1, 2011 to June 30, 2012

For all non-U.S. citizens, this offer is contingent upon your being granted appropriate visa status. Permanent Residents of the U.S. will be required to show appropriate INS documents. This appointment, like all employment at Johns Hopkins University, is contingent on your demonstration of authorization to be employed in the United States.

Immediately upon taking up this appointment, you are required to report to the Office of the Registrar, Broadway Research Building, Suite 147, in order to complete your enrollment. (Registrar's Office hours: 8:30 a.m. - 5:00 p.m., except Thursday, 8:30 a.m. - 12 noon)

Your attention is directed to the enclosures concerning Extracurricular Employment and the Health Insurance Requirements for Postdoctoral Fellows.

Please see www.hopkinsmedicine.org/RESEARCH/OPC/Policies_Regulations for the recently approved Policy on Interaction with Industry.

While the University provides information concerning Federal and Maryland income tax regulations, you are personally responsible to the Internal Revenue Service for all matters relating to personal income tax.

Sincerely,

Levi Watkins Jr.

Levi Watkins, Jr., M.D.

Associate Dean for Postdoctoral Programs

Enclosure

JOHNS HOPKINS
UNIVERSITY

School of Medicine

Broadway Research Building, Suite 147
733 North Broadway
Baltimore, MD 21205-2196
(410) 955-3080 / FAX (410) 955-0826

Office of Postdoctoral Programs

6/14/2012

Dr. Cristina Zibetti
Department of Neuroscience

Dear Dr. Zibetti:

I am pleased to inform you that you have been accepted as a fellow in the:

Department of Neuroscience

for the period: July 1, 2012 to November 30, 2012

For all non-U.S. citizens, this offer is contingent upon your being granted appropriate visa status. Permanent Residents of the U.S. will be required to show appropriate INS documents. This appointment, like all employment at Johns Hopkins University, is contingent on your demonstration of authorization to be employed in the United States.

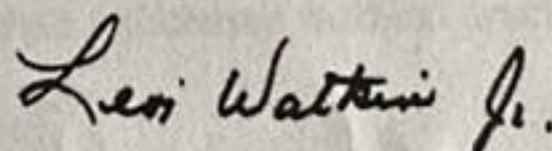
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Sincerely,



Levi Watkins, Jr., M.D.

Associate Dean for Postdoctoral Programs

Enclosure

Rea

JOHNS HOPKINS
UNIVERSITY

School of Medicine

Edward D. Miller Research Building, Suite 147
733 North Broadway
Baltimore, MD 21205-2106
(410) 955-3080 / FAX (410) 955-0828

Office of Postdoctoral Programs

6/7/2013

Dr. Cristina Zibetti
Department of Neuroscience

Dear Dr. Zibetti:

I am pleased to inform you that you have been accepted as a fellow in the:

Department of Neuroscience

for the period: July 1, 2013 to June 30, 2014

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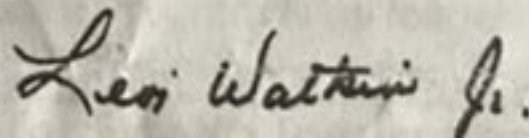
Immediately upon taking up this appointment, you are required to report to the Office of the Registrar, Edward D. Miller Research Building, Suite 147, in order to complete your enrollment. (Registrar's Office hours: 8:30 a.m. - 5:00 p.m., except Thursday, 8:30 a.m. - 12 noon)

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Please see www.hopkinsmedicine.org/RESEARCH/Policies/index.html for policies relating to research

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Sincerely,



Levi Watkins, Jr., M.D.

Associate Dean for Postdoctoral Programs

Enclosure

Reapt. I

JOHNS HOPKINS
MEDICAL INSTITUTIONS

CAP EXEMPT

Office of International Student,
Faculty, and Staff Services

Reed Hall, 1st Floor
1620 McElderry Street
Baltimore, MD 21205
(410)955-3371/FAX (410)955-0871
www.hopkinsmedicine.org/intlsvcs/

August 20, 2012

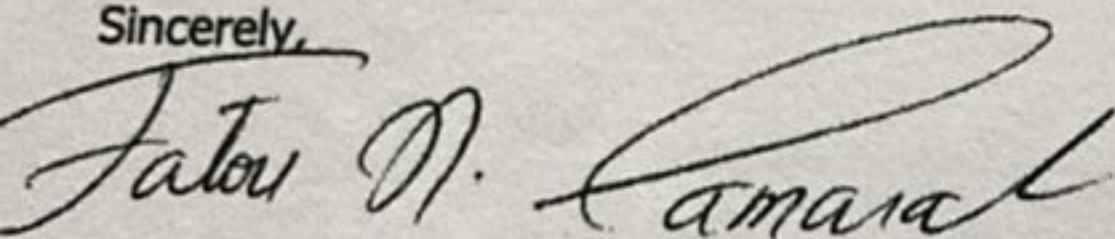
U.S. Citizenship & Immigration Service
California Service Center
Attn: Cap Exempt H-1B Processing Unit
24000 Avila Road, Room 2312
Laguna Niguel, CA 92677

To Whom It May Concern:

We are submitting Form I-129 for the extension of the H-1B1 non-immigrant status on behalf of **Dr. Cristina Zibetti**, a citizen of Italy. Our petition is accompanied by the appropriate documents of support as well as the required filing fee of \$325.00

Upon approval of this petition, **Dr. Cristina Zibetti** will hold the position of Postdoctoral Research Fellow at Johns Hopkins University, School of Medicine, Department of Neuroscience from **12/01/2012** until **11/30/2014** at an annual wage of at least **\$41,954**.

Sincerely,



Fatou Camarah

Sr. International Services Advisor & Authorized Petitioner for the JHMI

"Johns Hopkins University HAS OVER 28,600 EMPLOYEES, OF WHOM FEWER THAN 700 ARE H-1B OR L-1 NONIMMIGRANTS. AS SUCH, Johns Hopkins University IS NOT SUBJECT TO THE ADDITIONAL FEE REQUIRED UNDER PL 111-230."

Enclosures:

- Letter of employment
- Copy of passport
- Previously issued approval notices (if applicable)
- Form I-129, Form I-129W, and Form I-129 Supplement H
- Check for \$325 made payable to U.S. Department of Homeland Security
- Statement that copies submitted are exact photocopies of original documents

SCHOOL OF MEDICINE

Department of Student and Housestaff Services
BLOOMBERG SCHOOL OF PUBLIC HEALTH

JOHNS HOPKINS HOSPITAL

SCHOOL OF NURSING

JOHNS HOPKINS
UNIVERSITY

School of Medicine

Edward D. Miller Research Building, Suite 147
733 North Broadway
Baltimore, MD 21205-2196
(410) 955-3080 / FAX (410) 955-0820

Office of Postdoctoral Affairs

6/16/2014

Dr. Cristina Zibetti
Department of Neuroscience

Dear Dr. Zibetti:

I am pleased to inform you that you have been accepted as a fellow in the:

Department of Neuroscience

for the period: July 1, 2014 to June 30, 2015

For all non-U.S. citizens, this offer is contingent upon your being granted appropriate visa status. Permanent Residents of the U.S. will be required to show appropriate INS documents. This appointment, like all employment at Johns Hopkins University, is contingent on your demonstration of authorization to be employed in the United States.

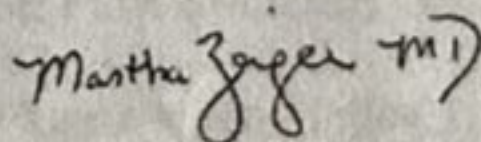
Immediately upon taking up this appointment, you are required to report to the Office of the Registrar, Edward D. Miller Research Building, Suite 147, in order to complete your enrollment. (Registrar's Office hours: 8:30 a.m. - 5:00 p.m., except Thursday, 8:30 a.m. - 12 noon)

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Please see www.hopkinsmedicine.org/RESEARCH/Policies/index.html for policies relating to research

While the University provides information concerning Federal and Maryland income tax regulations, you are personally responsible to the Internal Revenue Service for all matters relating to personal income tax.

Sincerely,



Martha Zeiger, M.D.

Associate Dean for Postdoctoral Affairs

Enclosure

Reapt, R

JOHNS HOPKINS

U N I V E R S I T Y

School of Medicine

Edward D. Miller Research Building, Suite 147
733 North Broadway
Baltimore, MD 21205-2196
(410) 955-3080 / FAX (410) 955-0826

Office of the Dean
Registrar

5/17/2016

Re: Cristina Zibetti, Ph.D.

To Whom It May Concern:

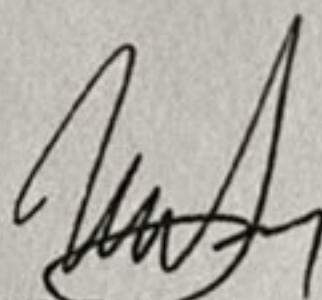
The following certifies the academic affiliations of the above named individual in the Johns Hopkins University School of Medicine:

Appointments:

06/01/2011 - 06/30/2016

JHU Research Fellow
Department of Neuroscience

Salary: \$50,112.00



Mary E. Foy
Senior Associate Dean/Registrar

MEF/TTUMMIN1

JOHNS HOPKINS
UNIVERSITY

School of Medicine

Edward D. Miller Research Building, Suite 147
733 North Broadway
Baltimore, MD 21205-2196
(410) 955-3080 / FAX (410) 955-0826

Office of the Dean
Registrar

6/7/2016

Re: Cristina Zibetti, Ph.D.

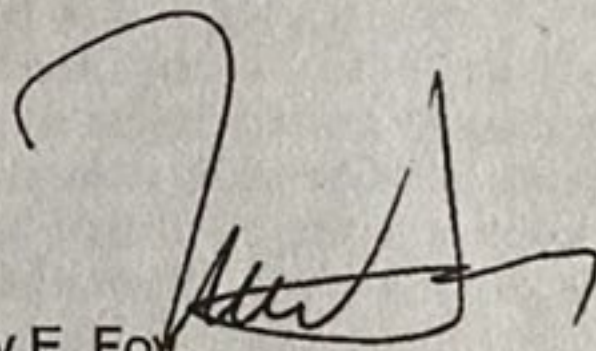
To Whom It May Concern:

The following certifies the academic affiliations of the above named individual in the Johns Hopkins University School of Medicine:

Appointments:

06/01/2011 - 06/30/2017

JHU Research Fellow
Department of Neuroscience



Mary E. Foy
Senior Associate Dean/Registrar

MEF/TTUMMIN1