

CURRICULUM VITAE

Last update: March 2018

Niovi SANTAMA

Professor

Department of Biological Sciences
University of Cyprus
PO Box 20537, 1678 Nicosia, CYPRUS
Tel. +357 22892881; Fax +357 22 350557

Email: santama@ucy.ac.cy

website: www.mbblab.net



PERSONAL PROFILE

Date of birth 27 February 1965
Place of birth: Nicosia, Cyprus
Nationalities: Greek and Cypriot (dual)
Family status: Married to Bernard Musyck (Belgian economist), one daughter (b. 2001)
Residence: 20 Georgiou Anastasiou street, Nicosia 1107, CY
Languages: Greek (mother tongue), English and French.
Basic knowledge of Italian.

EDUCATION

1988-92 **Ph.D. in Neuroscience.**
School of Biological Sciences,
University of Sussex, Brighton, UK.

1987-88 **Master of Science (M.Sc.) in
Genetic Manipulation and Molecular Biology.**
School of Biological Sciences,
University of Sussex, Brighton, UK.

1982-87 **Degree in Biology (B.Sc.) awarded with grade “Very Good” (83.3%).**
Department of Biological Sciences,
University of Athens, Athens, Greece.

PROFESSIONAL PROFILE

- 2018- Professor
Department of Biological Sciences, University of Cyprus
- 04-08/2016 *Fulbright Visiting Scholar* at the University of California Berkeley conducting research in the laboratory of Profs. Rebecca Heald and Richard Harland, Department of Molecular Cell Biology
- 2015-17 Department Chair (elected)
- 2007-2017 Associate Professor
Department of Biological Sciences, University of Cyprus
- 2002-07 Transfer as Assistant Professor at the newly established Department of Biological Sciences, University of Cyprus.
- 1998-2002 Assistant Professor at the Department of Natural Sciences (later restructured as Department of Chemistry), University of Cyprus.
- 1997-2015 Affiliated to *The Cyprus Institute of Neurology and Genetics*, as Honorary Group Leader.
- 1996-98 Lecturer at the Department of Natural Sciences, University of Cyprus.
- 1994-96 *Marie Curie HCM Fellow* funded by the EC
Post-doctoral Research Fellow at the European Molecular Biology Laboratory (EMBL) in Heidelberg, Germany.
- 1993-94 *EMBO Fellow*
Post-doctoral Research Fellow at the EMBL, Germany.
- 1992-93 Post-doctoral Research Fellow at the Sussex Centre for Neuroscience (an Interdisciplinary Research Centre of Excellence) at the University of Sussex, Brighton, UK.

SCIENTIFIC AND PROFESSIONAL ACTIVITIES

INVITED REVIEW WORK

International funding bodies

- 2015 **Invited Reviewer** for the Israeli Science Foundation
- 2007-14 **Invited Member at the ERC (European Research Council) of Reviewing Panel LS3 in Molecular, Cellular and Developmental Biology (6 years) and Reviewing Panel LSC1 in Molecular and Structural Biology and Biochemistry (1 year)**
Reviewer in Life Science ERC panels to evaluate the “*Starting Grant*” and “*Consolidator Grant*” proposals in support of the next generation of top research leaders in Europe (erc.europa.eu).

- 2014- **Invited External Evaluator** for Faculty appointments and Faculty evaluations in Greek Universities (University of Athens, University of Crete, University of Ioannina, University of Thrace)
- 1997, 2011 **Invited Reviewer** for EU-funded programs and national grants by the Greek Ministry of Education / Research Secretariat
- 2010 **Invited Reviewer** for the Wellcome Trust, UK (Neuroscience and Mental Health Projects)
- Journals:** **Invited Reviewer for** *Journal of Cellular and Molecular Medicine, Biotechnology Journal, Frontiers in Neuroscience, BMC Genomics, Brain Research, European Journal of Human Genetics, Molecular and Cellular Proteomics, PLOS One*

OTHER SCIENTIFIC ACTIVITIES

- 1998-ong. National Delegate of the Republic of Cyprus at the *European Molecular Biology Conference*. (EMBC, the governing body of the European Molecular Biology Organisation EMBO), appointed by the Ministry of Foreign Affairs and Ministry of Health of Cyprus.
- 2001-ong. National Contact Point for EMBO *Young Investigator Award (YIP)*. Appointed by the Ministry of Foreign Affairs and Ministry of Health of Cyprus.
- 2000 Member of the Expert Founding Committee that authored the “*Blueprint Report for the foundation of the Department of Biological Sciences at the University of Cyprus*”, commissioned by the Senate of the University of Cyprus for the establishment of the Department of Biological Sciences.
- 2005-11 Elected Member of the EMBL Alumni Association Board (three terms in total). In 2009-11 elected **Vice Chairperson** of the EMBL Alumni Association Board.
- 1998-06 Member of Technical Committee of COST for "Agriculture, Biotechnology and Food Industry", DG Research of the European Commission. Appointed by the Research Promotion Foundation of Cyprus.
- 2005-07 Member of the national co-ordinating committee of the European initiative “*Science on Stage*” commissioned for the World Year in Physics.
- 2004, 06 Invited referee for national competition “Students in Research” (PRO-FOIT05), commissioned by the Research Promotion Foundation of Cyprus.
- 2004-05 Invited referee by the Ministry of Education of Cyprus for the evaluation of academic programmes in Biology of private sector Colleges of higher education.
- 2002 Invited reviewer for the reform of national curricula of Biology and Life Sciences in secondary education, commissioned by the Ministry of Education of Cyprus.

AWARDS/HONOURS

- 2006 ***“Research Prize 2006 of the Research Promotion Foundation of Cyprus”***
Recipient of a National Prize for distinguished participation in European Commission Research Programmes, bestowed by the President of the Parliament of the Republic of Cyprus.
- 1997 FEBS (Federation of European Biochemical Societies) short-term personal fellowship for collaborative work at the EMBL.

EMBL Cell Biology short-term fellowship award for collaborative work at the EMBL.
- 1996 EMBO Fellowship for participation in the EMBO course “Patch clamp, imaging and single-cell RT-PCR of brain slices”, Homburg, Germany.
- 1994-96 *Marie Curie HCM Postdoctoral Fellowship* by the European Commission (3 years).
- 1993-94 *EMBO Postdoctoral Fellowship* (1 year, I declined a second year)
- 1989-92 Ph.D. Research Studentship from *British Biotechnology Ltd.*
- 1987 Top student within the graduates of 1987 at the Department of Biology of the University of Athens. Privilege to recite the *Oath of the School* at graduation ceremony.
- 1986 The *Pantias Rallis Award* of the University of Athens as a whole for “excellence in academic performance”.

CURRENT AND PAST RESEARCH INTERESTS

- Centrosome and ciliogenesis regulation in mammalian cells
- Molecular and cell biology of motor proteins and cytoskeleton in mammalian mitotic cells and in the mammalian nervous system
- Identification and functional characterisation of receptors for motor proteins in the nervous system. ER morphogenesis in mammalian cells.
- Neurodegeneration and motor neuron disease in humans
- RNA metabolism and nuclear organisation in the mammalian neuron
- Molecular and cell biology of neuropeptidergic systems in the central nervous system of simple model organisms

RESEARCH COLLABORATIONS PAST AND CURRENT

Motor proteins and the cytoskeleton:

T. Surrey (biophysics), European Molecular Biology Laboratory (EMBL), Heidelberg, Germany

I. Vernos, (cell biology) Center of Genomic Regulation, Barcelona, Spain

S. Wiemann (genomics), German Cancer Research Center (DKFZ), Heidelberg, Germany

C. Bagni (neuroscience) VIB and University of Antwerp, Belgium

see Christodoulou et al., 2006; Charalambous et al., 2013

Motor protein receptors

H. Yu (cell biology), National University of Singapore

see Santama et al., 2004

Neurodegeneration

S. Cavallaro (genomics), CNR, Catania, Italy

M. Pfaffl, (molecular biology) Technical University of Munich, Germany

see Pantelidou et al., 2007; Lederer et al., 2007; Lederer and Santama 2007 and 2008

RNA metabolism and nuclear architecture

A.I. Lamond (cell molecular biology), University of Dundee, Scotland, UK

N. Oikonomakos (formerly) and S. Zographos, (structural biology), National Hellenic Research Foundation, Athens, Greece

see Santama et al., 2005; Malekkou et al., 2010, Drakou et al., 2012

Ciliogenesis in invertebrate and vertebrate cells

Nektarios Tavernarakis, (*C. elegans* genetics) IMBB Crete, Greece

Lotte B. Pedersen (cell biology), University of Copenhagen, Denmark

Stefan Geimer (electron microscopy), University of Beurey, Germany

Paris Skourides (developmental biology), University of Cyprus, Cyprus

José-Maria Valpuesta (structural biology) Autonomous University of Madrid, Spain

see Kypri et al., 2014; Ioannou et al., 2013

ER morphogenesis

Iain W. Mattaj, Director General, EMBL, Heidelberg, Germany

See Christodoulou et al., 2016

Katanin-like proteins in vertebrate development

Rebecca Heald (molecular cell biology), University of California Berkeley, USA

Richard Harland (molecular cell biology), University of California Berkeley, USA

Manuscript in preparation

COMPETITIVE RESEARCH GRANTS

No. 1	Title: <i>Cellular functions of kinesin-like proteins and their role in human diseases</i>	
Funding Body: European Commission, DG Research, 5 th Framework Programme		
Reference: Improving Human Potential RTN Network grant <i>IHP-RTN-99-1</i>		Acronym: <i>Kinesins and disease</i>
Role in the Project: Partner in European Network		
Total Budget: 1,376 000 Euro		My Lab's Budget: 255,334 Euro
Duration: 2000-2004		
Personnel Funded in my Lab: 2 Postdoctoral Researchers		
Participants: EMBL (Germany), DiverDrugs S.L (Biotech, Spain), Max Planck Institute (Germany), CNR Milano (Italy), DKFZ (Germany), University of Cyprus		

No. 2	Title: <i>Investigating the role of molecular motors in ALS pathogenesis</i>	
Funding Body: American Muscular Dystrophy Association (MDA USA)		
Reference: Neuromuscular Disease Research Grant		
Role in the Project: Coordinator/Principal Investigator		
Total Budget: 65,000 USD		My Lab's Budget: 65,000 USD
Duration: 2000		
Personnel Funded in my Lab: 1 Postdoctoral Researcher		
Participants: University of Cyprus, EMBL (Germany), Glaxo-Wellcome (UK), Cyprus Institute of Neurology and Genetics		

No. 3	Title: <i>Molecular motors: Investigating their role in human neurodegenerative disease</i>	
Funding Body: A.G. Leventis Foundation (France)		
Reference: Research Grant		
Role in the Project: Coordinator/Principal Investigator		
Total Budget: 62,000 Euro		My Lab's Budget: 62,000 Euro
Duration: 2002-2004		
Personnel Funded in my Lab: 1 Postdoctoral Researcher		
Participants: University of Cyprus, EMBL (Germany), ICRF London (UK)		

No. 4	Title: <i>Kinesin Molecular Motors and Neurodegenerative Disease: The case of ALS (Amyotrophic Lateral Sclerosis)</i>	
Funding Body: Telethon Foundation (Cyprus)		
Reference: Research Grant		
Role in the Project: Coordinator/Principal Investigator		
Total Budget: 66,500 Euro		My Lab's Budget: 66,500 Euro
Duration: 2004-2006		
Personnel Funded in my Lab: 1 Postdoctoral Researcher		
Participants: University of Cyprus, EMBL (Germany), DKFZ (Germany), Cyprus Institute of Neurology and Genetics		

No. 5	Title: <i>Structure/function relationship of a novel nuclear protein as a putative target for human neurodegenerative disorders</i>	
Funding Body: Research Promotion Foundation of Cyprus		
Reference: PENEK Research Grant <i>ENISX 0603/03</i>		Acronym: <i>NUCLEUS</i>
Role in the Project: Coordinator/Principal Investigator		
Total Budget: 79,700 Euro		My Lab's Budget: 66,450 Euro
Duration: 2004-2006		
Person		
Participants: University of Cyprus, University of Dundee (UK), National Hellenic Research Foundation		

No. 6	Title: <i>Molecular Motors: Their role in the neurodegenerative disorder ALS</i>	
Funding Body: Research Promotion Foundation of Cyprus		
Reference: Thematic Research Grant <i>YGEIA 0603/03</i>		Acronym: <i>MOTORS</i>
Role in the Project: Coordinator/Principal Investigator		
Total Budget: 91,125 Euro	My Lab's Budget: 79,285 Euro	Duration: 2004-2006
Personnel Funded in my Lab: 1 Postdoctoral Researcher		
Participants: University of Cyprus, EMBL (Germany), DKFZ (Germany)		

No. 7	Title: <i>Protein complexes of CINAP: composite molecular targets for the understanding of human disease</i>	
Funding Body: Research Promotion Foundation of Cyprus		
Reference: Thematic Grant <i>YGEIA 0506/05</i>		Acronym: <i>COMBINATION</i>
Role in the Project: Coordinator/Principal Investigator		
Total Budget: 157,440 Euro	My Lab's Budget: 129,930 Euro	Duration: 2007-2009
Personnel Funded in my Lab: 1 Doctoral Student and 1 Research Assistant		
Participants: University of Cyprus, University of Dundee (Scotland), National Hellenic Research Foundation (Greece), Remedica Ltd (Pharmaceutical, Cyprus)		

No. 8	Title: <i>Factors that influence centrosome association of KIFC5A motor protein and its binding partners Nubp1 and Nubp2 in mammalian cells (Declined)</i>	
Funding Body: Research Promotion Foundation of Cyprus		
Reference: Visiting Research Grant <i>FILOEM 0506/02</i>		Acronym: <i>FILOS</i>
Role in the Project: Coordinator/Principal Investigator		
Total Budget: 41,300 Euro	My Lab's Budget: 41,300 Euro	Duration: 2007
Personnel Funded in my Lab: 1 Visiting Researcher		
Participants: University of Cyprus, Institut de Biologie Structural, Université Grenoble (France)		

No. 9	Title: <i>Investigating the mechanism that regulates centrosome duplication in mammalian cells</i>	
Funding Body: Research Promotion Foundation of Cyprus		
Reference: DIDAKTOR Research Grant <i>DISEK/0308/05</i>		Acronym: <i>CENTROSOME</i>
Role in the Project: Coordinator/Principal Investigator		
Total Budget: 136,000 Euro	My Lab's Budget: 127,400 Euro	Duration: 2009-2011
Personnel Funded in my Lab: 1 Postdoctoral Researcher		
Participants: University of Cyprus, Institute of Molecular Biology and Biotechnology (IMBB), Crete (Greece)		

No. 10	Title: <i>The Centrosomes in Cancer (Declined)</i>	
Funding Body: Research Promotion Foundation of Cyprus		
Reference: YGEIA Research Grant <i>BIOS/0308(BE)/07</i>		
Role in the Project: Coordinator/Principal Investigator		
Total Budget: 119,800	My Lab's Budget: 111,400 Euro	Duration: 2009-2011
Personnel Funded in my Lab: 1 Postdoctoral Researcher		
Participants: University of Cyprus, Institute of Molecular Biology and Biotechnology (IMBB), Crete (Greece)		

No. 11	Title: <i>Functional characterisation of the protein Nubp1 in centrosome duplication</i>
Funding Body: Research Promotion Foundation of Cyprus	
Reference: PENEK Research Grant <i>ENISX0308/06</i>	Acronym: <i>DUPLICATION</i>
Role in the Project: Coordinator/Principal Investigator	
Total Budget: 103,600 Euro	My Lab's Budget: 96,400 Euro
Duration: 2009-2011	
Personnel Funded in my Lab: 1 Doctoral Student	
Participants: University of Cyprus, EMBL (Germany)	

No. 12	Title: <i>Investigation of the functional role of the transmembrane protein TMEM170A in nuclear envelope formation in human cells</i>
Funding Body: Research Promotion Foundation of Cyprus	
Reference: PROSELKYSI Research Grant <i>NEOS/0308/06</i>	Acronym: <i>NEOS</i>
Role in the Project: Coordinator/Principal Investigator	
Total Budget: 101,800 Euro	My Lab's Budget: 96,240 Euro
Duration: 2012-2014	
Personnel Funded in my Lab: 1 Postdoctoral Researcher	
Participants: University of Cyprus, EMBL (Germany)	

No. 13	Title: <i>Molecular analysis of ciliogenesis in mammalian cells: Investigating the functional role of motor protein KIF5A and its interacting NTPases, Nubp1 and Nubp2</i>
Funding Body: University of Cyprus Grant (with international peer review selection)	
Reference: Research Grant	
Role in the Project: Coordinator/Principal Investigator	
Total Budget: 70,000 Euro	My Lab's Budget: 70,000 Euro
Duration: 2013-2015	
Personnel Funded in my Lab: 1 Doctoral Student	
Participants: University of Cyprus, University of Bayreuth (Germany), University of Copenhagen (Denmark)	

No. 14	Title: <i>Functional investigation of the multi-tasking katanin-like protein KATNAL2 in vertebrate embryonic development: a link to the molecular pathology of autism?</i>
Funding Body: State Department, USA	
Reference: <i>Fulbright Visiting Scholar</i>	
Role in the Project: Investigator-Visiting Scholar (Personal Award) hosted in the laboratory of Professor Rebecca Heald at the Department of Molecular and Cell Biology at the University of California Berkeley (on sabbatical leave)	
Duration: 1 Academic Semester (4 months) 2016-17	
Participants: University of Cyprus, University of California Berkeley	

No. 15	Title: <i>"An unexpected function of katanin-like protein KATNAL2 in cell size determination"</i>
Funding Body: University of Cyprus	
Reference: <i>Special Grant</i> from the University of Cyprus (Five awards after internal university-wide competition including all Schools and Departments)	
Role in the Project: Coordinator/Principal Investigator	
My Lab's Budget: 50,000 Euro	Duration: 2017-2019
Participants: University of Cyprus, University of Dundee, Scotland	

RESEARCH SUPERVISION

A. Undergraduate Students (18 students graduated)

- 1989-90 Supervision of B.Sc. final year research project in molecular biology (“*Genetic engineering of fusion proteins*”, Margaret Howard) at the University of Sussex, UK
- 1998-2017 Supervision of fifteen (15) undergraduate final-year research thesis projects in biochemistry, molecular and cell biology (Lucas Luca, Christiana Katti, Stella Soteriou, Demetra Philippidou, Anna Malekkou, Litsa Demetriadou, Andri Hadjikyriakou, Antonis Ververis, Katerina Marinou, Korina Constantinou, Ioanna Georgiou, Maria Christoforou, Panagiota Arminioudou, George Michael, Andri Makrygiorgi, Anastasia Raoukka, Georgia Fakonti) at the University of Cyprus

B. Master’s Students (12 M.Sc. titles awarded)

- 1991 Supervision of M.Sc. research project in molecular neurobiology (“*In situ analysis of gene expression in the brain*”, Kimberly Clapp) at the University of Sussex, UK
- 2004-05 Supervision of M.Sc. research project in cell biology (“*Intracellular localisation of mouse protein Nubp2*”, Virginia Adamou) at the University of Cyprus
- 2005-06 Supervision of M.Sc. research project in cell biology (“*Expression and biochemical purification of recombinant proteins Nubp1 and Nubp2*”, Gregoria Hadjiyianni) at the University of Cyprus
- 2007-08 Supervision of M.Sc. research project in cell biology (“*Expression of novel mouse proteins Nubp1 and Nubp2*”, Costas Lysandrou) at the University of Cyprus
- 2008-09 Supervision of M.Sc. research project in cell biology (“*Study of the interactions between the isoforms of a novel katanin-like protein and proteins involved in centrosome duplication in mouse*”, Adamos Adamou) at the University of Cyprus
- 2009-10 Supervision of M.Sc. research project in cell biology (“*Study of the interactions chromodomain helicase CDH4 and CDH3 proteins, involved in centrosome duplication in mouse*”, Aristi Pisi) at the University of Cyprus
- 2009-10 Supervision of M.Sc. research project in cell biology (“*Cellular localisation of the isoforms of a novel katanin-like protein in mouse*”, Maria Stelikou) at the University of Cyprus
- 2010-11 Supervision of M.Sc. research project in cell biology (“*Investigation of the interactions of two isoforms of katanin-like 2 protein with Nubp1 and Nubp2 in mouse cells*”, Christina Kamilari) at the University of Cyprus

- 2012-13 Supervision of M.Sc. research project in cell biology (*“Characterisation of the role of Nubp1 and Nubp2 in ciliogenesis in mammalian cells”*, Giannis Maimaris) at the University of Cyprus
- 2012-14 Supervision of M.Sc. research project in cell biology (*“Characterisation of a novel antibody to katanin-like 2 proteins in mouse”*, Vicky Mallouri) at the University of Cyprus
- 2013-14 Supervision of M.Sc. research project in cell biology (*“Investigation of the interactions of two isoforms of katanin-like 2 protein with Nubp1 and Nubp2 in mouse sensory cilia”*, Maria Christoforou) at the University of Cyprus
- 2016-17 Supervision of M.Sc. research project in cell biology (*“Morphometric analysis of silencing phenotypes of the ER-transmembrane protein TMEM147”*), Rafaella Michaelidou at the University of Cyprus

C. Doctoral (Ph.D.) Students (4 Ph.D. titles awarded, 2 students in progress)

- 1999-06 Supervision of doctoral research in molecular cell biology (*“Functional characterisation of mitotic motor KIFC5A in mouse”*, Andri Christodoulou) at the University of Cyprus. Studentship from the Leventis Foundation to A. Christodoulou. See *Christodoulou et al., 2006*.
Ph.D. Awarded in July 2006
Andri then secured a postdoctoral placement (2007-2010) in the group of Iain Mattaj, Director General of the EMBL (European Molecular Biology Laboratory) to work on nucleocytoplasmic transport for which she obtained an EMBO long-term Fellowship.
- 2003-2011 Supervision of doctoral research in molecular cell biology (*“Functional characterisation of the human nuclear ATPase CINAP”*, Anna Malekkou) at the University of Cyprus.
Funded by the Research Promotion Foundation of Cyprus. See *Santama et al., 2005; Malekkou et al., 2010, Drakou et al., 2012*.
Ph.D. Awarded in July 2011
- 2003-2011 Supervision of doctoral research in molecular cell biology (*“Functional characterisation of motor protein KIF1B β in neurons”*, Despina C. Charalambous) at the University of Cyprus.
Studentship from the A.G. Leventis Foundation and EMBO short-term Fellowship to D. Charalambous. See *Charalambous et al., 2013*.
Ph.D. Awarded in February 2012
- 2007-2015 Supervision of doctoral research in molecular cell biology (*“Functional characterisation of novel katanin-like proteins in mouse”*, Antonis Ververis) at the University of Cyprus. See *Ververis et al., 2016*.
Funded by the Research Promotion Foundation of Cyprus.
Ph.D. Awarded in June 2015

- 2013-ong. Supervision of doctoral research in molecular cell biology (*“Understanding the role of Nubp1 and Nubp2 in ciliogenesis in mouse”*, Giannis Maimaris) at the University of Cyprus.
Funded by a University of Cyprus grant (selected by international peer review).
- 2017-ong. Supervision of doctoral research in molecular cell biology (*“Investigating an unprecedented novel role of katanin-like protein KATNAL2 in the nucleolus of mouse cells”*, Andria Theophanous) at the University of Cyprus.
Funded by a University of Cyprus studentship

D. Post Doctoral Researchers (6 researchers)

- 2017-19 Andri Christodoulou *“An unexpected function of katanin-like protein KATNAL2 in cell size determination”*.
Funded by a University of Cyprus Special Grant
- 2012-14 Andri Christodoulou *“Investigation of the functional role of the transmembrane protein TMEM170A in nuclear envelope formation in human cells”*.
Funded by the Research Promotion Foundation of Cyprus (See *Christodoulou et al., 2016; Ververis et al., 2016; Kypri et al., 2014*)
- 2009-11 Elena Kypri *“Investigating the mechanism that regulates centrosome duplication in mammalian cells”*.
Funded by the Research Promotion Foundation of Cyprus. (See *Kypri et al., 2014*).
- 2000-06 Supervision of 4 postdoctoral researchers (Saleh Khundirat, Spyros E. Zographos, Carsten W. Lederer, and Maria Pantelidou) in several projects, funded by the European Commission, the USA MDA, the Leventis Foundation, the Telethon Foundation and the Research Promotion Foundation of Cyprus.
(See *Santama et al., 2005, Christodoulou et al., 2006, Pantelidou et al., 2007; Lederer et al., 2007; Lederer and Santama 200; Lederer and Santama 2008*).

LIST OF PUBLICATIONS

A. Papers in International Refereed Journals

1. Burke, J.F., Smith, A., **Santama, N.**, Bray, R.C., Thorneley, R.N.F., Dacey, S., Griffiths, J., Catlin, G. and Edwards, M. (1989). Expression of recombinant Horseradish Peroxidase C in *E. coli*. *Biochemical Society Transactions* 17: 1077-1078.
2. Smith, A., **Santama, N.**, Dacey, S., Edwards, M., Bray, R.C., Thorneley, R.N.F. and Burke, J.F. (1990). Expression of a synthetic gene for Horseradish Peroxidase in *E. coli* and folding and activation of the recombinant enzyme with Ca²⁺ and heme. *Journal of Biological Chemistry* 265: 13335-13343.
3. Burke, J.F., Kellett, E., De Lange, R.P.J., **Santama, N.**, Saunders, S.E. and Benjamin, P.R. (1992). Neuropeptide FMRFamide gene expression. *Methods in Neuroscience* 9: 64-78. San Diego, CA, Academic Press.
4. Skingsley, D.R., Bright, K., **Santama, N.**, van Minnen, J., Brierley, M.J., Burke, J.F. and Benjamin, P.R. (1993). A molecularly defined cardio-respiratory interneuron expressing SDPFLRFamide/GDPFLRFamide in the snail *Lymnaea*: monosynaptic connections and pharmacology. *Journal of Neurophysiology* 69: 915-927.
5. **Santama, N.**, Li, K.V., Bright, K.E., Yeoman, M., Geraerts, W.P.M., Burke, J.F. and Benjamin, P.R. (1993). Processing of the FMRFamide precursor protein in the snail *Lymnaea stagnalis*: Characterisation and neuronal localization of a novel peptide, "SEEPLY". *European Journal of Neuroscience* 5: 1003-1016.
6. **Santama, N.**, Wheeler, C.H., Burke, J.F. and Benjamin, P.R. (1994a). Neuropeptides Myomodulin, Small Cardioactive Peptide (SCP) and Buccalin in the Central Nervous System of *Lymnaea stagnalis*: Purification, Immunoreactivity and Artifacts. *Journal of Comparative Neurology* 342: 335-351.
7. **Santama, N.**, Brierley, M.J., Burke, J.F. and Benjamin, P.R. (1994b). A neural network controlling feeding in *Lymnaea stagnalis*: Immunocytochemical localization of Myomodulin, Small Cardioactive Peptide (SCP), Buccalin and FMRFamide-related peptides. *Journal of Comparative Neurology* 342: 352-365.
8. **Santama, N.**, Benjamin, P.R. and Burke, J.F. (1995a). Alternative RNA splicing generates diversity of neuropeptide expression in the brain of the snail *Lymnaea*: *In situ* analysis of mutually exclusive transcripts of the FMRFamide gene. *European Journal of Neuroscience* 7: 65-76.
9. **Santama, N.**, Wheeler, C.H., Skingsley, D.R., Yeoman, M., Bright, K., Kaye, I., Burke, J.F. and Benjamin, P.R. (1995b). Identification, distribution and physiological activity of three novel peptides of *Lymnaea*: EFLRIamide and pQFYRIamide encoded by the FMRFamide gene, and a related peptide. *European Journal of Neuroscience* 7: 234-246.

10. Bohmann, K., Ferreira, J., **Santama, N.**, Weis, K. and Lamond, A.I. (1995). Molecular analysis of the coiled body. *Journal of Cell Science* Suppl.19: 107-113.
11. Kellett, E., Perry, S.J., **Santama, N.**, Worster, B.M., Benjamin, P.R. and Burke, J.F. (1996). Myomodulin gene of *Lymnaea*: structure, expression and analysis of neuropeptides. *Journal of Neuroscience* 16: 4949-4957.
12. **Santama, N.**, Li, K.W., Geraerts, W.P.M., Benjamin, P.R. and Burke, J.F. (1996a). Post-translational processing of the alternative neuropeptide precursor encoded by the FMRFamide gene in the pulmonate snail *Lymnaea stagnalis*. *European Journal of Neuroscience* 8: 968-977.
13. **Santama, N.**, Dotti, C.G. and Lamond, A.I. (1996b). Neuronal differentiation in the rat hippocampus involves a stage-specific re-organisation of subnuclear structure both *in vivo* and *in vitro*. *European Journal of Neuroscience* 8: 892-905.
14. **Santama, N.** (1997). *In situ* hybridisation for the detection of neuropeptide transmitters, Chapter 12, pp. 159-170. *In: Neurotransmitter and Neuroreceptor Methods* (R.C. Rayne, ed), *Methods in Molecular Biology* 72, Humana Press Inc. Totowa, NJ. ISBN 0-89603-394-5.
15. Perry, S.J., Straub, V.A., Kemenes, G., **Santama, N.**, Worster, B.M., Burke, J.F. and Benjamin, P.R. (1998). Neural modulation of gut motility by the myomodulin peptides and acetylcholine. *Journal of Neurophysiology* 79: 2460-2474.
16. **Santama, N.**, Krijnse-Locker, J., Griffiths, G., Noda, Y., Hirokawa, N. and Dotti, C.G. (1998). KIF2 β , a new kinesin superfamily protein, is associated with lysosomes and may be implicated in their centrifugal translocation. *EMBO Journal* 17: 5855-5867.
17. **Santama, N.** and Benjamin, P.R. (2000). Gene expression and function of FMRFamide-related neuropeptides in the snail *Lymnaea*. Special issue (K. Elekes, ed), *Microscopy Research and Technique* 49: 547-556.
18. **Santama, N.** (2001). RT-PCR for the identification of developmentally-regulated novel members of the kinesin-like superfamily, Chapter 2, pp. 9-20. *In: Neurotransmitter and Neuroreceptor Methods* (I. Vernos, ed), *Methods in Molecular Biology* 164, Humana Press Inc. Totowa, NJ. ISBN 0-89603-766-5.
19. **Santama, N.**, Er, C.P., Ong, L.L. and Yu, H. (2004). Distribution and functions of kinectin isoforms. *Journal of Cell Science* 117: 4537-4549.
20. **Santama, N.**, Ogg S.C., Malekkou A., Zographos S.E., Weis K. and Lamond A.I. (2005). Characterization of hCINAP, a novel coilin-interacting protein encoded by a transcript from the transcription factor TAFII32 locus. *Journal of Biological Chemistry* 280: 36429-36441.

21. Christodoulou, A., Lederer C.W., Surrey, T., Vernos, I. and **Santama, N.** (2006). Motor protein KIFC5A interacts with Nubp1 and Nubp2 and is implicated in the regulation of centrosome duplication. *Journal of Cell Science* 119: 2035-2047.
22. Lederer, C.W., Torrisi, A., **Santama, N.** and Cavallaro, S. (2007). Comprehensive expression profiling of motor cortex in sporadic amyotrophic lateral sclerosis. *Pathways and genes differentially expressed in the motor cortex of patients with sporadic ALS*. **BMC Genomics** 8:26 (p.1-26). Flagged as “**highly accessed**” by Biomed Central.
23. Pantelidou, M., Zographos, S.E., Lederer, C.W., Kyriakides, T., Pffaf, M.W., and **Santama, N.** (2007). Differential expression analysis of molecular motors in ALS motor neuron disease. **Neurobiology of Disease** 26: 577-589.
24. Lederer, C.W. and **Santama, N.** (2007) ALS-The tools of the trait. **Biotechnology Journal** 2: 608-621.
25. Lederer, C.W. and **Santama, N.** (2008) Neural Stem Cells: mechanisms of fate specification and nuclear reprogramming in regenerative medicine. **Biotechnology Journal** 3: 1521-1538.
26. Malekkou, A., Lederer, C.W., Lamond, A.I., **Santama, N.** (2010) The nuclear ATPase/adenylate kinase hCINAP is recruited to perinucleolar caps generated upon RNA pol.II inhibition. **FEBS Letters** 584: 4559-4564.
27. Drakou, C.E., Malekkou, A., Hayes, J.M., Lederer, C.W., Leonidas, D.D., Oikonomakos, N.G., Lamond, A.I., **Santama, N.**, Zographos, S.E. (2012) hCINAP is an atypical mammalian nuclear adenylate kinase with an ATPase motif: structural and functional studies. **Proteins** 80: 206-220. Epub 2011 Oct 31.
28. Ioannou, A, **Santama N.**, Skourides PA. (2013) *X. laevis* nucleotide binding protein 1 (xNubp1) is important for convergent extension movements and controls ciliogenesis via regulation of the actin cytoskeleton. **Developmental Biology** 380: 243-258.
29. Charalambous, D.C., Pasciuto, E., Mercaldo, V., Pilo-Boyl, P., Munck, S., Bagni, C, **Santama N.** (2013). KIF1B β transports dendritically localized mRNPs in neurons and is recruited to synapses in an activity-dependent manner. **Cellular and Molecular Life Sciences** 70: 335-356.
30. Kypri, E., Christodoulou, A., Maimaris, G., Lethan, M., Markaki, M., Lyssandrou, C., Lederer, C.W., Tavernarakis, N., Geimer, S., Pedersen, L.B. **Santama, N.** (2014) The nucleotide binding proteins Nubp1 and Nubp2 are negative regulators of ciliogenesis. **Cellular and Molecular Life Sciences** 71: 517-538.
31. Ververis, A., Christodoulou, A., Christoforou, M., Kamilari, C., Lederer, C.W. and **Santama N.** (2016). A novel family of katanin-like 2 protein isoforms (KATNAL2), interacting with nucleotide-binding proteins Nubp1 and Nubp2, are key regulators of

different MT-based processes in mammalian cells. **Cellular and Molecular Life Sciences** 73: 163-184. [Epub ahead of print 2015 Jul 8] **(COVER STORY)**

32. Christodoulou, A., Santarella_Melwig, R., **Santama, N.** and Mattaj, I.W. (2016) Transmembrane protein TMEM170A is a newly discovered regulator of ER and nuclear envelope morphogenesis in human cells. **Journal of Cell Science**, 129: 1552-1565.

Publication Metrics:

Total number of published articles 32

Total Citations 960 (November 2017)

Average citations per article 30

Cumulative impact Factor (IF) 140.58

Average IF per article 5.021

H-Factor 19

3 new articles are in preparation

B. Chapters in Books

Textbook *Human Physiology: From Cells to Systems*, 8th Edition (2013) by L Sherwood, Brooks Cole, ISBN: 9781111577438,

Greek Translation, Chapter 5 (Editors: **Santama, N** and Sidiropoulou, K), Academic Publications J. Basdra & Co. (2016), ISBN 978-618-5135-02-7.

Textbook *Human Physiology: From Cells to Systems*, 8th Edition (2013) by L Sherwood, Brooks Cole, ISBN: 9781111577438,

Greek Translation, Chapter 20 (Editors: Marangos, P and **Santama, N**), Academic Publications J. Basdra & Co. (2016), ISBN 978-618-5135-02-7.