

CURRICULUM VITAE

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Education

- *2/1978 –6/1984* **Biology Department, Freie Universitaet Berlin, Germany,** Diploma in Biology
- *7/1985 – 4/1986* **Max-Planck Inst. f. Molekulare Genetik, Berlin** Training fellowship in molecular biology of the chloroplast
- *5/1986 – 11/1989* **Biology Department, Freie Universitaet Berlin and Max-Planck Inst. f. Molek. Genetik, Berlin** PhD thesis in Plant Molecular Biology. Title: «*Cloning of the plastid genome of rye (*Secale cereale*) and study of expression of ribosomal protein and ribosomal RNA genes in chloroplasts, etioplasts and ribosome-deficient heat-bleached plastids*»

Research positions

- *12/1989 – 1/1990* **Max-Planck Inst. f. Molekulare Genetik, Berlin,** Postdoctoral fellow in the laboratory of Plant Molecular Biology (Group leader: Dr. A.R. Subramanian)
- *2/1990 – 9/1992* **Inst. of Molecular Biology and Biotechnology (FORTH),** Postdoctoral fellow in the laboratory of plant molecular biology (Group leaders: Assist. Prof. E. Tsagris - Dr. M. Tabler)
- *6/1995 – 12/2000* **Institute of Biology, NCSR “Demokritos”,** Research Assistant, affiliated with the group of Dr. J. Argyroudi-Akoyunoglou, Laboratory of Photosynthesis
- *Since 10/2004* **Institute of Biology, NCSR “Demokritos”,** Research Associate, Head of Chronobiology laboratory

Research interests

Molecular mechanisms of circadian clock function in plant and animal systems. Regulation of expression via: chromatin remodeling, steady-state mRNA accumulation, interaction of transcription factors with promoter/enhancer motifs, protein abundance resulting from synthesis and degradation rates. Interaction of the biological clock with cancer and other pathological processes.

Publication list (peer-reviewed journals)

1. M. Xydous, A. Prombona, T.G. Sournalingas
The role of H3K4me3 and H3K9-14ac in the induction by dexamethasone of Per1 and Sgk1, two glucocorticoid early response genes that mediate the effects of acute stress in mammals.
 Biochim Biophys Acta 1839(9) (2014), 866-72
2. M. Xydous, K.E. Sekeri-Pataryas, A. Prombona, T.G. Sournalingas
Nicotinamide treatment reduces the levels of histone H3K4 trimethylation in the promoter of the *mper1* circadian clock gene and blocks the ability of dexamethasone to induce the acute response.
 Biochim Biophys Acta 1819(8) (2012), 877-884
3. A. Galeou and A. Prombona
Light at night resynchronizes the evening-phased rhythms of *TOC1* and *ELF4* in *Phaseolus vulgaris*.
 Plant Sci. 184 (2012):141-147.
4. A. Repouskou, T. Sournalingas, K. Sekeri-Pataryas and A. Prombona
The circadian expression of c-Myc is modulated by the HDAC inhibitor trichostatin A in synchronized murine neuroblastoma cells.
 Chronobiol. Int. 27(4) (2010), 722-741
5. A.D. Kaldis and A. Prombona
Synergy between the light-induced acute response and the circadian cycle: a new mechanism for the synchronization of the *Phaseolus vulgaris* clock to light.
 Plant Mol. Biol. 61 (2006), 883-895
6. A. Prombona and J. Argyroudi-Akoyounoglou
Diverse signals synchronize the circadian clock controlling the oscillations in chlorophyll content of etiolated *Phaseolus vulgaris* leaves.
 Plant Science 167 (2004), 117-127
7. A.D. Kaldis, P. Kousidis, K. Kesanopoulos and A. Prombona
Light and circadian regulation in the expression of *LHY* and *Lhcb* genes in *Phaseolus vulgaris*.
 Plant Mol. Biol. 52 (2003), 981-997

8. D.S. Tsapali, K.E. Sekeri-Pataryas, A. Prombona and T.G. Sourlingas
mRNA levels of the linker histone variant, H1o, in mitotically active human diploid fibroblasts as a function of the phases of the cell cycle and cumulative population doublings.
 Mech. Ageing Develop. 121 (2000), 101-112
9. L. A. Tziveleka, A.D. Kaldis, A. Hegedus, J. Kissimon, A. Prombona, G. Horvath and J.H. Argyroudi-Akoyunoglou
The effect of Cd²⁺ on Chl and LHCII biosynthesis in greening plants.
 Z. Naturforsch. 54c (1999), 740-745
10. J.H. Argyroudi-Akoyunoglou and A. Prombona
Light-independent endogenous circadian rhythm in the capacity for chlorophyll formation.
 J. Photochem. Photobiol. B36 (1996) 271-277
11. A. Prombona, M. Tabler, M. Providaki and M. Tsagris
Structure and expression of *LeMA-1*, a tomato protein which belongs to the SEC18-PAS1-CDC48-TBP-1 protein family of putative Mg²⁺-dependent ATPases.
 Plant Mol. Biol. 27 (1995) 1109-1118
12. W.R. Hess, A. Prombona, B. Fieder, A.R. Subramanian and T. Boerner
Chloroplast *rps15* and the *rpoB/C1/C2* gene cluster are strongly transcribed in ribosome-deficient plastids: evidence for a functioning non-chloroplast-encoded RNA polymerase.
 EMBO J. 12 (1993) 563-571
13. A. Prombona and A.R. Subramanian
Construction of a Chloroplast DNA Library from Rye *Secale cereale*, a Cereal Plant of Temperature-Inducible Chloroplast Ribosome Deficiency.
 Biochem. Intern. 24 (1991) 559-566
14. A.R. Subramanian, D. Stahl and A. Prombona
Ribosomal Proteins, Ribosomes and Translation in Plastids.
 in "Cell Culture and Somatic Cell Genetics of Plants", ed. by L. Bogorad and I.K. Vasil, Vol. 7A (1991) 191-215, Academic Press
15. A. Prombona and A.R. Subramanian
A New Rearrangement of Angiosperm Chloroplast DNA in Rye *Secale cereale* Involving Translocation and Duplication of the Ribosomal *rpS15* Gene.
 J. Biol. Chem. 264 (1989) 19060-19065
16. A. Prombona, Y. Ogihara and A.R. Subramanian
Cloning and Identification of Ribosomal Protein Genes in Chloroplast DNA.
 Methods Enzymol. 164 (1988) 748-761

Selected Congress Announcements

A. Galeou and A. Prombona (2013). ***Phaseolus* protoplasts: a new high-efficiency transformation system for functional studies of the plant circadian clock.** Proceedings of the 35th Annual Conference of the Hellenic Society of Biological Sciences, p. 57, May 23-25, Nafplio.

Anastasia Repouskou and Anastasia Prombona (2014) **Circadian clock regulates c-MYC protein stability via rhythmic acetylation.** FEBS–EMBO 2014 Conference, 30 August – 4 September 2014, Paris, France FEBS Journal 281 (Suppl. 1) CSII-03 – Circadian Clocks p. 258

Anastasia Repouskou and Anastasia Prombona (2014) **A novel role for c-MYC oncoprotein in the regulation of circadian gene promoters.** 65th Congress of the Hellenic Society of Biochemistry and Molecular Biology, 28th-30th November 2014, Thessaloniki, Poster Session P145

Angeliki Galeou and Anastasia Prombona (2014) **Functional analysis of *Phaseolus vulgaris* putative core clock genes.** 65th Congress of the Hellenic Society of Biochemistry and Molecular Biology, 28th-30th November 2014, Thessaloniki, Poster Session P32