

# Curriculum vitae

## László Kozma-Bognár

### Personal data:

**Name:** László Kozma-Bognár  
**Place, date of birth:** Keszthely, 13.05.1970.  
**Family status:** married, 3 children  
**Primary affiliation:** University of Szeged, Faculty of Sciences and Informatics, Department of Genetics  
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### Education, Qualifications:

1988 High school graduation: Pelbart Temesvari Franciscan High School  
Esztergom, Hungary  
1993 University diploma: biologist, József Attila University, Faculty of Sciences,  
Szeged, Hungary  
2002 Ph.D: molecular and cell biology, József Attila University, Doctoral School of  
Biology, Szeged, Hungary  
2018 Habilitation: biology, University of Szeged, Szeged, Hungary

### Positions, research experience

1991- Biological Research Centre, Institute of Plant Biology, supervisor/group  
leader: Prof. Dr. Ferenc Nagy  
1991-1993: diploma student  
1994-1997: PhD student  
1998-2001: assistant research fellow  
2002-2003: research fellow  
2007- senior research fellow  
2018-2020: group leader  
  
2003-2004: University of Warwick, Department of Biological Sciences  
EMBO Long-term Fellowship; supervisor: Prof. Andrew J. Millar.  
  
2004-2006 University of Edinburgh, School of Biological Sciences, IMPS  
Marie Curie postdoctoral fellowship; supervisor: Prof. Andrew J. Millar  
  
2016- Department of Genetics, Faculty of Sciences and Informatics, University of  
Szeged  
2016-2019: senior lecturer  
2019- associate professor and head of department

## **Research Grants**

### **Grants (national) currently running**

**NKFI ANN 128740. Year: 2019-2022.**

**Title:** A novel model to study light-regulated seed germination.

**Budget:** 39,000,000 Ft/4 years

**Status:** running, 3rd interim report accepted

**NKFI K 134567. Year: 2020-2024.**

**Title:** Identification of novel regulatory mechanisms of the plant circadian clock.

**Budget:** 47.880 EFt/4 years

**Status:** running.

## **Closed Grants**

### **National grants**

**OTKA F029163. Year: 1999-2001.**

**Title:** Identification and characterization of molecular mechanisms regulating the expression of the tobacco phytochrome B gene.

**Budget:** 2,000,000 Ft/3 years

**Status:** closed, final report accepted.

**Qualification:** n/a

**OTKA F047013. Year: 2004-2006**

**Title:** Identification and characterization of components of the plant circadian clock.

**Budget:** 3,354,000 Ft/3 years

**Status:** closed, final report accepted

**Qualification:** excellent (10/10)

**OTKA K73362. Year: 2008-2011.**

**Title:** Molecular mechanism of entrainment of the plant circadian clock.

**Budget:** 22,000,000 Ft/3 years

**Status:** closed, final report accepted

**Qualification:** excellent (10/10)

**OTKA/NKFI K 106361. Year: 2013-2016.**

**Title:** Functional characterisation of a novel component of the plant circadian clock.

**Budget:** 31,000,000 Ft/4 years

**Status:** closed, final report accepted

**Qualification:** well satisfied (7/10)

## **International Grant**

**Marie Curie European Re-Integration Grant (MERC-CT-2006 044982). Year: 2007-2008.**

**Title:** Resetting mechanisms of the plant circadian clock.

**Budget:** 40,000 Euro/1 év

**Status:** closed, final report accepted

**Qualification:** n/a

I was/am the principal investigator of all above listed grants.

## **Activities in the scientific community**

**2010-13 Member of OTKA evaluation panel “Infraindividual biology”**

**2020-23 Member of OTKA evaluation panel “Cell biology”**

## **PhD dissertations and university diploma works supervised**

**Andrea Palágyi, 2011, UoSz, Doctoral School of Biology (individual supervisor)**

Title: The role of the phytochrome B photoreceptor in the regulation of plant circadian clock and circadian rhythms. Qualification: Summa Cum Laude

**Kata Terecskei, 2013, UoSz, Doctoral School of Biology (individual supervisor)**

Title: The role of a small GTPase in regulating the plant circadian clock, stress responses and the light dependent endoreplication. Qualification: Summa Cum Laude

**Anita Hajdu, 2015, UoSz, Doctoral School of Biology (individual supervisor)**

Title: The role of the phytochrome B photoreceptor in the regulation of photoperiodic flowering. Qualification: Summa Cum Laude

**Orsolya Katalin Dobos, 2020, UoSz, Doctoral School of Biology (co-supervisor)**

Title: The role of HY5 and HYH transcription factors in the regulation of the plant circadian clock. Qualification: Summa cum laude

**Orsolya Katalin Dobos, 2014, UoSz, MSc (individual supervisor)**

Title: Sumoylation of proteins controlling light signalling and the circadian clock in *Arabidopsis*

**Georgina Bangó, 2018, UoSz, BSc (co-supervisor)**

Title: Analysis of cell to cell light signaling in *Arabidopsis thaliana*

**Dóra Vivien Nyári, 2018, UoSz, BSc (co-supervisor)**

Title: The limits of the light resetting of the plant circadian clock

**Anna Júlia Nyakó, 2019, UoSz, BSc (co-supervisor)**

Title: Development of a novel bioluminescence-based method to detect protein – protein interactions

**Fanni Eszter Tordayné Mráz, 2019, UoSz, BSc (individual supervisor)**

Title: Hierarchical regulatory principles in the plant circadian system

**Orsolya Varjú, 2020, UoSz, BSc (individual supervisor)**

Title: Physiological and health-related aspects of the human circadian clock

**Vanda Zita Molnár, UoSz, BSc (individual supervisor)**

Title: The role of the circadian clock in the diel regulation of complex physiological processes in plants

**Dóra Vivien Nyári, 2020, UoSz, MSc (co-supervisor)**

Title: Identification and characterization of novel components of the plant circadian clock

**Laura Baranyai-Hencz, 2021, UoSz, BSc (individual supervisor)**

Title: Time is honey: functional interaction of circadian clocks in plants and honeybees

**Rajmund Kiss, 2021, UoSz, BSc (individual supervisor)**

Title: Redox regulation of the mammalian circadian clock

**Dániel Gál, 2022, UoSz, BSc (individual supervisor)**

Title: The relationship between the circadian clock and cancer

**Nikolett Györe, 2023, UoSz, BSc (individual supervisor)**

Title: The relation between the circadian clock and the condensation and 3D structure of chromatin

## Awards

2000: *Young Researcher Award of the Hungarian Academy of Sciences*

2002: *1st prize from the Szeged Regional Section of the Hungarian Academy of Sciences*

2002: *“Best PhD dissertation in the BRC”, Qualitas Biologica Foundation*

2006: *“1st place for best real world application, 1st place for best poster and 3rd place for best device”:  
International Genetically Engineered Machine Competition, MIT, Boston, USA. (as the instructor of the team  
of Edinburgh University).*

## Fellowships

1995 EMBO Short-term Fellowship (ETH Zentrum, Zürich, CH)

1998 Royal Society Fellowship (Univ. of Warwick, Coventry, UK)

2007-2010 János Bolyai Research Fellowship

## Membership in scientific associations:

*Association of Hungarian Plant Biologists, 2007-*

*Hungarian Genetic Society, 2016-*

*American Society of Plant Biologists, 2016-*

## Invited speaker

- Complex Clocks Conference, Edinburgh, UK, March 2000.
- 12th Congress of the Federation of European Societies of Plant Physiology, Budapest, Hungary, August 2000.
- Genomic Arabidopsis Research Network (GARNet) Meeting, Bristol, UK, September 2006.
- From chromatin domains to nuclear compartments in model plants and crop species, Thessaloniki, Greece, 2021

**Cumulative Impact Factor  $\Sigma$ IF = 263.881**

**Independent citations = 2945**

**H-index = 28**