

# Curriculum Vitae

## Personal Information

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## Education

- **2016–2017** – Károli Gáspár University of the Reformed Church in Hungary (KRE), Faculty of Humanities, Institute of Psychology – *Certified Coach*
- **2013–2015** – Károli Gáspár University of the Reformed Church in Hungary (KRE), Faculty of Humanities, Institute of Psychology – *Certified Supervisor*
- **1998–2003** – University of Szeged, Faculty of Science – *PhD in Environmental Science*
- **1992–1997** – University of Szeged, Faculty of Science – *Biology Teacher*
- **1991–1996** – University of Szeged, Faculty of Science – *Molecular Biologist, Biotechnologist*

## Professional Experience

### Current Positions

#### University of Pannonia, Soós Ernő Research and Development Center for Circular Economy

- *Water 4.0 Program:* Addressing water supply issues; studying microbial strains with biotechnological potential.

#### Biological Research Centre Szeged, Institute of Biochemistry and Institute of Biophysics

- *Internal Institutional Coach:* Supporting prevention of professional burnout, research collaboration, communication, and conflict management.

### Independent Expert / Consultant

- **Field:** Research and Development (R&D)

### Clients & Projects (2018–present):

- *X-View Mérnök Kft.* – Expert report based on remediation data from the Berhida industrial site.

- *Wessling Hungary Kft.* – Evaluation of data from Nitrokémia Fúzfő wastewater treatment plant; assessment of wastewater streams and potential treatment methods; preparation of expert report.

## **Previous Employment**

### **Carbiotech Kft.**

*Lead Researcher (2016–2020)*

#### **Projects:**

- Development of mobile water purification technology for treating effluent from intensive fish farming systems.
- Experimental development of technology for treating leachate from municipal landfills.
- Coordination and evaluation of chemical and microbiological assessment of landfill leachates.

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### **Bay Zoltán Nonprofit Applied Research Ltd., Institute of Biotechnology**

- *Lead Researcher (2015–2020)*
- *Head of Water Industry Department (2014–2015)*
- *Head of Industrial Microbiology Department (2008–2013)*
- *Research Scientist, Head of Fermentation Division (2003–2008)*

#### **Project Portfolio:**

- DARFT/PHARE 2000 – *Construction of pilot-scale denitrification system*, Project Leader
- GVOP-3.1.1.-2004-05-0165/3.0 – *Industrial production of L-malic acid*, Subproject Leader
- GVOP-3.1.1.-2004-05-0128/3.0 – *Production of carotenoid-containing fish feed from dairy by-products*
- KNRET 2006–2007 – *Degradation of pesticide and insecticide residues*, Project Leader
- FP7 SME Instrument – *ALGADISK Project (2012–2015)*, Project Leader
- EIT KIC – *MFC Developments (2013–2015)*, Project Leader
- GINOP-2.1.1-15-2015-00014 – *Development of a complex monitoring system specialized for locating point-source leakages*, Project Leader
- GINOP-2.2.1-15-2017-00106 (2020–2022) – *Extraction of rare earth elements and production of secondary raw materials from red mud*, Project Leader

- IT KIC RIS-ALICE (2020–2022) – *Al-rich industrial residues for mineral binders in the ESEE region*, Project Leader

#### **R&D Collaborations with Industrial Partners:**

- Coca-Cola Beverages Hungary Ltd.
- Dreher Breweries Ltd.
- Szentkirályi Mineral Water Production and Distribution Ltd.
- HAGE-NAGISZ Hajdúsági Agricultural Industrial Co.
- MOL Plc.
- Amgal Chemical Products (1989) Ltd. (Israel)
- Algen Ljubljana Ltd.
- Carbotech Hungary Ltd.
- Martin Metals Ltd.

#### **Personal Skills**

- Languages: English – Intermediate (Type C certificate)
- Computer Skills: Advanced user of Microsoft Office™ tools
- Driving Licence: Category B
- Leadership Experience: 8 years
- Highly self-motivated and purpose-driven (“I run beyond the goal”)
- Team player and capable of independent work
- Stress tolerance, emotional intelligence, and resilience competencies
- Strong communication and empathy skills
- Excellent organizational and client management skills
- Ability to identify and support individual employee motivations

#### **Areas of Interest**

##### **Scientific Fields:**

- Reductive microbiological processes in environmental protection, wastewater treatment, and industrial biotechnology.

- Human microbiota research – interactions and effects between gut flora and host organism.

**Soft Skills & Psychology:**

- Motivation, motivational systems, and the connection between motivation and emotional intelligence.
- Neurobiological causes and correlations of stress and anxiety; prevention strategies.