



**Curriculum Vitae
Europass**

Personal information

Name and surname **Augustin C. Mot**

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nationality Romanian

Sex Male

Occupational field **Scientific research**

**Professional
experience**

**October 2016 – present
(part-time position)** **Researcher CS III**
Department of Molecular and Biomolecular Physics, National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania.

February 2017 – present **Lecturer** (*Teaching: Chemometry, Advanced Analytical Chemistry, Instrumental Analysis*), Department of Chemistry, Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, 1 Mihail Kogalniceanu, 400084 Cluj-Napoca, Romania.

May 2018 – present **Scientific researcher – Project director**
Advanced chemometric methods applied in plant metabolomics in water stress, (project director of grant PN-III-P1-1.1-PD-2016-0121 (14 din 02/05/2018) financed by CNCSIS Romania), Babes-Bolyai University, 1 Mihail Kogalniceanu, 400084 Cluj-Napoca, Romania.

November 2015 – October 2017 **Scientific researcher – Project director**
Nonsymbiotic plant hemoglobins in stress related responses, (project director of grant PN-II-RU-TE-2014-4-2555 financed by CNCSIS Romania), Babes-Bolyai University, 1 Mihail Kogalniceanu, 400084 Cluj-Napoca, Romania.

November 2014 – October 2015

Scientific researcher

Redox activation of small molecules at biological metal centers (grant Ctr. PN-II- ID-PCE-2012-4-0488, 71/02.09.2013, PI Assoc. Prof. Dr. Radu Silaghi-Dumitrescu), Babes-Bolyai University, 1 Mihail Kogalniceanu, 400084 Cluj-Napoca, Romania.

October 2013 – October 2014

Leibniz-DAAD postdoctoral fellow

Identification of new plant E3 Ubiquitin ligases via activity based protein profiling probes involved in N-end rule protein degradation pathway (PI Dr. Nico Dissmeyer), Leibniz Institute of Plant Biochemistry, Weinberg 3, 06120, Halle (Saale), Germany.

**July 2008 - December 2010;
April 2011 - October 2014**

Research assistant

Protein purification and characterisation (grants Ctr. IDEI 107/2007; Ctr. PN II ID PCCE 2/140/2008 – P5, CNCSIS Romania, PI Assoc. Prof. Dr. Radu Silaghi-Dumitrescu), Babes-Bolyai University, 1 Mihail Kogalniceanu, 400084 Cluj-Napoca, Romania.

January 2011 – May 2011

Visiting PhD student

Direct electrochemistry and spectroelectrochemistry of proteins (under supervision of Dr. H. A. Heering), Leiden Institute of Chemistry, Leiden University, Einsteinweg 55, 2333 CC Leiden, The Netherlands

July 2008 – October 2008

Visiting research assistant

Period of research at University at San Antonio, TX, USA which implied expression, purification and characterisation of a new flavo-diiron protein and expression, purification and PEGylation of *Phascolopsis gouldii* hemerythrin for a blood substitutes protocol (under supervision of Prof. Dr. Donald Kurtz).

Education and training

October 2009 – October 2012

Ph.D. in Chemistry awarded with *Excellent* honor

Laccase from Sclerotinia sclerotiorum: biochemical characterization and applications. Babes-Bolyai University, 1 Mihail Kogalniceanu, 400084 Cluj-Napoca, Romania.

October 2008 – June 2009

Master in Analytical Chemistry

Modern methods for quality control and environmental assessment, Babes-Bolyai University, 1 Mihail Kogalniceanu, 400084 Cluj-Napoca, Romania.

October 2004 – June 2008

Bachelor studies in Chemistry

(Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Physical Chemistry and Biochemistry), Babes-Bolyai University, 1 Mihail Kogalniceanu, 400084 Cluj-Napoca, Romania.

Personal skills and competences

Mother tongue

Other language

Self-assessment

European level (*)

Romanian

Understanding				Speaking				Writing		
Listening		Reading		Spoken interaction		Spoken production				
English	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
French	B1	Independent user	B2	Independent user	A2	Basic User	A1	Basic User	B1	Independent user
Greek	A2	Basic User	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences

- Very good relationship with co-workers;
- Good ability to adapt to multicultural environments, gained through my work experience abroad.

Organizational skills and competences

- Initiative, dynamism and seriousness.

Technical skills and competences

- Chemometric methods applied in multivariate data analysis
- Spectrophotometric and chromatographic analytical methods applied in quantitative analysis of complex mixtures;
- Analytical methods applied in evaluation of antioxidant capacity of natural products.
- Protein handling and treatment (electrophoresis, gel filtration, affinity chromatography);
- Recombination cloning techniques;
- Protein expression and purification (soluble proteins, inclusion bodies);
- Bacterial cell and fungus cultures;
- Plant research (*Arabidopsis thaliana*), agrobacterium-mediated plant transformation, transient expression in tobacco;
- Western blotting and immunodetection;
- Direct and mediated electrochemistry of redox proteins;
- Anaerobic protein/chemical manipulation;
- Enzymatic assays, enzyme kinetics;
- Stopped-flow techniques applied in fast reaction studies;
- Fluorescence polarization;

Computer skills and competences	<ul style="list-style-type: none"> • Transition metals and free radical studies using Electron Resonance Spectroscopy; • Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™); • Good knowledge of several software applied in chemistry (ChemDraw, ChemWin, Statistica, GraphPad, Specfit, WinEPR, ViewerLite, MatLab)
Driving licence(s)	B
Publications and citation metrics	<p data-bbox="512 546 1018 580">https://orcid.org/0000-0002-1679-0487</p> <p data-bbox="512 580 1244 613">https://publons.com/researcher/1534642/augustin-c-mot/</p> <ul style="list-style-type: none"> • 49 scientific articles published in ISI Thomson-Reuters [for 25 as principal author (first and/or corresponding author)] • Total citations: 933 (Google scholar), 689 (Scopus), 638 (Web of Science) • Hirsch Index: 16 (Google scholar), 15 (Scopus and Web of Science) • 2 book chapters • 12 oral communications in English at scientific meetings • 25 poster presentations at scientific meetings

May 2019

Dr. Augustin C. Moț

