Curriculum Vitae

PERSONAL INFORMATION

Prof. RNDr. Jiří Masojídek, CSc.

Třeboň, Holičky 17 (Czech Republic)

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Sex Male | Date of birth November 10, 1952 | Nationality Czech

CURRENT POSITION

Senior researcher / lecturer

WORK EXPERIENCE

2011–onwards	Senior researcher Laboratory of Algal Biotechnology, Centre Algatech, Institute of Microbiology, Czech Academy of Science, Třeboň, Czech Republic
2013	Professor (cellular and molecular biology and genetics), Faculty of Science, University of South Bohemia in České Budějovice, Czech Republic
2006–2011	Head of laboratory Laboratory of Algal Biotechnology, Institute of Microbiology, Třeboň, Czech Republic
2000-2011	Researcher and Lecturer Division of Biotechnology, Institute of Physical Biology, University of South Bohemia, Nové Hrady, Czech Republic
2002-2006	Deputy-director Institute of Physical Biology, University of South Bohemia, Nové Hrady, Czech Republic
2005	Associate Professor, Faculty of Science, University of South Bohemia, České Budějovice, Czech Republic
1991–2005	Senior researcher Laboratory of Photosynthesis, Institute of Microbiology, Academy of Science, Třeboň, Czech Republic
1989-1990	Post-doctoral fellow Biosphere Sciences, King's College London, U.K.
1985-1989	Junior researcher Laboratory of Photosynthesis, Institute of Microbiology, Academy of Science, Třeboň, Czech Republic

EDUCATION AND TRAINING

1984-1985	International Training Course (topics of modern biology), Biological Research Center, Szeged, Hungary
1980-1984	CSc. (= PhD) in microbiology Institute of Microbiology, Czech Academy of Science, Praha, Czech Republic
1978-1979	Postgraduate training, Institute of Microbiology, Czech Academy of Science, Třeboň, Czech Republic
1972-1977	RNDr. (=CSc.) in biochemistry Faculty of Science, Charles University in Prague, MSc in biochemistry

PERSONAL SKILLS

Mother tongue(s) Czech

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C1	C1
Russian	B2	B2	C1	C1	B1
Polish	B2	B2	C1	C1	A2
German	B1	B1	B1	B1	B1
Italian	A1	A1	A2	A2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

Communication skills
- good communication skills gained through my experience working at various research institutions and travel abroad

Computer skills MS Windows, MS Office

Organisation /management skills
- head of research groups
- tutor of students

ADDITIONAL INFORMATION

Wide experience in microalgae biochemistry, biophysics, microbiology, biotechnology and plant physiology; with 40 years of experience in cultivation of microalgae and application of biochemical and biophysical methods to study structural and functional changes of the photosynthetic apparatus caused by various unfavourable environmental conditions; last 20 years focused to microalgae biotechnology; lectured at international meetings; supervised master and PhD students; managed or co-managed 8 projects from national agencies (Czech Science Foundation, Grant Agency of the Academy of Sciences, Ministry of Education) and was responsible for 2 international projects (NATO Linkage, EU FP5) and 5 bilateral cooperation projects (between the Czech Academy of Sciences and national Research Council of Italy,); in cooperation with commercial companies participated in the development of photobioreactors.

Research topics
Cultivation regimes of microalgae; design and construction of various photobioreactors; microalgae as feed supplement in fish and crayfish aquaculture; development of chlorophyll fluorescence monitoring, correlation of physiological status of microalgae cultures with growth and production of bioactive compounds.

Membership in Scientific Committees, Boards and Societies
International Society for Applied Phycology; Member of the Study Programme Board Biophysics, Faculty of Science, University of South Bohemia in České Budějovice; Member of the Scientific Advisory Board, Faculty of Science, University of J.E.Purkyně, Ústí n. Labem

PUBLICATIONS (2011-2017)

Published about 70 articles in international journals listed in WOS; h-index 25, SCI >1500.

1. Masojídek J, Kopecký J, Giannelli L, Torzillo G (2011) Productivity correlated to photobiochemical performance of *Chlorella* mass cultures grown outdoors in thin-layer cascades. Journal of Industrial Microbiology & Biotechnology 38, 307-317
2. Zaťková I, Sergejevová M, Urban J, Vachta R, Štys D, Masojídek J. (2011) Carotenoid-enriched microalgal biomass as feed supplement for freshwater ornamentals: albinic form of wels catfish (*Silurus glanis*), Aquaculture Nutrition 17, 278-286.
3. Masojídek J, Vonshak A, Torzillo G. (2011) Chlorophyll Fluorescence Applications In Microalgal Mass Cultures. In Chlorophyll a Fluorescence in Aquatic Sciences: Methods and Applications (eds. DJ Suggett, O Prášil, MA Borowitzka). Springer, Dordrecht. pp. 277-292.
4. Torzillo G, Faraloni C, Silva AM, Kopecký J, Pilný J, Masojídek J (2012) Photoacclimation of *Phaeodactylum tricornutum* (Bacillariophyceae) cultures grown in outdoors photobioreactors and open ponds. Eur. J. Phycology 47, 169–181
5. Sergejevová M, Masojídek J (2012) Chlorella biomass as feed supplement for freshwater fish: Sterlet, *Acipenser ruthenus,* Aquaculture Res 44, 157-159
6. Kouba A, Sale J, Sergejevová M, Kozák P, Masojídek J (2013) Colour intensity in angelfish (*Pterophyllum scalare*) as influenced by dietary microalgae addition. J Appl Ichthyol 29, 193-199
7. Masojídek J, Torzillo G, Koblížek M (2013) „Photosynthesis in Microalgal Mass Culture“, in: *Handbook of Microalgal Culture: Applied Phycology and Biotechnology,* (editors: A.Richmond & Q. Hu). 2nd edition, Wiley-Blackwell, p. 21-36.
8. Silva Benavides AM, Torzillo G, Kopecky J, Masojidek J (2013) Productivity and biochemical composition of *Phaeodactylum tricornutum* (Bacillariophyceae) cultures grown outdoors in tubular photobioreactors and open ponds. Biomass Bioeng. 54, 115-122
9. Kouba A, Velíšek J, Stará A, Masojídek J & Kozák P (2014) Supplementation with Sodium Selenite and Selenium-Enriched Microalgae Biomass Show Varying Effects on Blood Enzymes Activities, Antioxidant Response, and Accumulation in Common Barbel (*Barbus barbus*). Biomed Research International 2014, Article ID 408270, 8 pages (v tisku) http://dx.doi.org/10.1155/2014/408270
10. Masojídek J, Torzillo G (2014) Mass Cultivation of Freshwater Microalgae. *On-line database* Earth Systems and Environmental Sciences, Elsevier, *2nd edition, 13 p*. http://dx.doi.org/10.1016/B978-0-12-409548-9.09373-8
11. Ihnken S, Beardall J, Kromkamp JC, Gómez Serrano C, Torres MA, Masojídek J, Malpartida I, Abdala R, Jerez CG, Malapascua JR, Navarro E, Rico RM, Peralta E, Ezequil JPF, Figueroa FL (2014) Light acclimation and pH perturbations affect photosynthetic performance in Chlorella mass culture. *Aquat Biol* 22, 95-110
12. Malpartida I, Jerez CG, Morales MM, Nascimento P, Freire I, Ezequiel J, Rico RM, Peralta E, Malapascua JR, Florez Y, Masojídek J, Abdala R, Figueroa FL, Navarro E (2014) Synergistic effect of UV radiation and nutrient limitation on Chlorella fusca (Chlorophyta) cultures grown in outdoor cylindrical photobioreactors. *Aquat Biol* 22,141-158
13. Jerez CG, Navarro E, Abdala R, Malpartida I, Rico RM, Masojídek J, Figueroa FL (2014) Hydrodynamics and photosynthesis performance of *Chlorella fusca* grown in a thin-layer cascade. *Aquat Biol* 22, 111-122
14. Malapascua JRF, Jerez CG, Sergejevová M, Figueroa FL, Masojídek J (2014) Photosynthesis monitoring to optimize growth of microalgal mass cultures: application of chlorophyll fluorescence techniques. *Aquat Biol* 22, 124-140
15. Masojídek J, Sergejevová M, Malapascua JR, Kopecký J (2015) Thin-layer systems for mass cultivation of microalgae: flat panels and sloping cascades. In: *Algal Biorefinery, Volume 2: Products and Refinery Design* (eds: R. Bajpai, A. Prokop, M. Zappi), Springer International Publishing, Switzerland 2015. pp. 237-261.
16. Sergejevová M, Malapascua JR, Kopecký J, Masojídek J (2015) Photobioreactors with internal illumination. In: *Algal Biorefinery, Volume 2: Products and Refinery Design* (eds: R. Bajpai, A. Prokop, M. Zappi), Springer International Publishing, Switzerland 2015. pp. 213-236.
17. Jerez CG, Malapascua JR, Sergejevová M, Figueroa FL, Masojídek J (2016) Effect of nutrient starvation under high irradiance on lipid and starch accumulation in *Chlorella fusca (Chlorophyta)*. Marine Biotechnology 18, 24-36
18. Jerez CG, Malapascua, JR, Sergejevova, M, Masojidek, J Figueroa, FL (2016) Chlorella fusca (Chlorophyta) grown in thin-layer cascades: Estimation of biomass productivity by in-vivo chlorophyll a fluorescence monitoring. Algal Research - Biomass Biofuels and Bioproducts 17, 21-30 (IF 3.994)
19. Synkova H, Masojidek J, Komenda J, Wilhelm J, Wilhelmova N, Vácha F (2016) Prof. RNDr. Danuše Sofrova, CSc. Obituary, Photosynthetica 54, 481-483 (IF 1.507)
20. Babaei A, Ranglová K, Malapascua JR, Masojídek J (2017) The synergistic effect of Selenium (selenite, $-SeO_3^{2-}$) dose and irradiance intensity in *Chlorella* cultures. AMB Expr (2017) 7:56 DOI 10.1186/s13568-017-0348-7
21. Acién FG, Molina E, Reis A, Torzillo G, Zittell G., Sepúlveda J, Masojídek J (2017) Photobioreactors for the production of microalgae. In: Microalgae-based Biofuels and Bioproducts. From Feedstock Cultivation to End-products. (Gonzalez-Fernandez C, Muñoz R, eds), pp. 1-44. Woodland Publishing
22. Silva Benavides AM, Ranglová K, Malapascua JR, Masojídek J, Torzillo G (2017) Diurnal changes of photosynthesis and growth of Arthrospira platensis cultured in a thin-layer cascade and an open pond. Algal Research 28, 48-56 https://doi.org/10.1016/j.algal.2017.10.007 (IF 3.994)