Pr. Sameh Fahim Faragallah Sheded

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Personal information

Nationality: Egyptian.
Date of birth: 08 June 1978.
Place of birth: Cairo, Egypt.
Marital status: Married with two children.

Educational qualification

1996-2000: B.Sc. of Agriculture Science, specialization of (Agricultural Microbiology) Final grade of very good, Faculty of Agriculture, Ain-Shams University, **Egypt.**

2001-2005: M.Sc. of Agricultural Science, specialization of (Agricultural Microbiology) Under title: Chemical and Microbiological studies on Drinking water in Shibin El-kom city, Faculty of Agriculture, Menuofia University, **Egypt.**

2007-2011: Ph.D. from Laboratory of Biological Processes, Microbial and Enzyme Engineering, specialization of (Biological Function Engineering) Under title: Process of lipopeptides production by *Bacillus subtilis*, Poly-technique Lille, University of Science and technology, Lille, **France.**

2014-2015: Post-Doctor, Laboratory of Biological Processes, Microbial and Enzyme Engineering. Poly-technique, University of Science and technology Lille, **France.**

2019-2020: Post-Doctor, Laboratory of antimicrobial agents, UMET, Institute National of Agronomies and Environmental Research INRAe, Villenueve d' ASCQ, **France.**

Professional experiences

2000-2001: Assistant Researcher, Department of Agricultural Microbiology, Agricultural Division, National Research Center, Egypt.

2001-2005: Demonstrator, Department of Botany, Agricultural Microbiology branch, Faculty of Agriculture, Menuofia University, Egypt.

2005-2012: Lecturer Assistant, Department of Botany, Agricultural Microbiology, Faculty of Agriculture, Menuofia University, Egypt.

2012-2017: Lecturer, Department of Botany, Agricultural Microbiology & Biotechnology, Faculty of Agriculture, Menuofia University, Egypt.

2017-2022: Professor assistant, Department of Botany, Agricultural Microbiology & Biotechnology, Faculty of Agriculture, Menuofia University, Egypt.

2022-until now: Professor, Department of Botany, Agricultural Microbiology & Biotechnology, Faculty of Agriculture, Menuofia University, Egypt.

2024-until now: Professor and Head of Botany Department, Agricultural Microbiology & Biotechnology, Faculty of Agriculture, Menuofia University, Egypt.

Extracurricular skills

Language

Arabic: Mother tongue
French: Good working knowledge
English: Excellent working knowledge

Computers

ICDL license.
Digital transformation license.
Operating systems, soft and hardware management
Reports editing, long documents using and graphics tools.

Academic activates.

Participation in international scientific conferences

(Poster presentations)

Fahim S, Montastruc L, Gancel F, Dimitrov K and Nikov I. Development of inverse fluidized bioreactor for surfactants production: foam controlling. XII^{eme} Conference of Société Française de Génie des Procédés (SFGP). **2009**. **Marseille, France.**

Fahim S, Gancel F, Dimitrov K, Nikov I and Jacques P. Influence of environmental factors on lipopeptides production by a spontaneous mutant strain of *Bacillus subtilis* ATCC21332. 2nd Conference of Le Génie des Procédés appliqué aux bio-industries (GEPROC). **2009**. **Gembloux, Belgium.**

Nikov I, **Fahim S**, Dimitrov K, Gancel F and Jacques P. Volumetric oxygen transfer coefficient and foaming control in inverse fluidized bed recycle reactor for biosurfactants production. 8th Conference of European Symposium on Biochemical Engineering Science (ESBES). **2010**. **Bologne, Italy.**

Fahim S, Gancel F, Dimitrov K, Jacques P and Nikov I. Optimization of lipopeptides production bioprocess in modified inverse fluidized bed bioreactor. XIII^{eme} Conference of Société Française de Génie des Procédés (SFGP). **2011**. **Lille, France.**

Dimitar Dimitrov, **Sameh Fahim**, Krasimir Dimitrov, Frederique Gancel, Peggy Vauchel, Philippe Jacques, Iordan Nikov. Oxygen transfer in three phase inverse bed in model and fermentation conditions. Gas-Liquid-Solid (6). **2012**. **Marrakech, Morocco.**

(Oral presentations)

Fahim S, Dimitrov K, Gancel F, Nikov I and Jacques P. Influence of environmental factors on lipopeptides production in three phase inverse fluidized bed bioreactor. Volumetric oxygen transfer coefficient and foaming control in inverse fluidized bed recycle reactor for biosurfactants production. 1st Conference of Bioprocessing and Application of Microbial Biotechnology in Agriculture. National Research Center. (NRC). **2010**. **Cairo, Egypt.**

Sameh Fahim. The advanced trends in biosurfactant production and its environmental technologies applications, 5th HOPE Meeting, Japan Society for the Promotion of Science (JSPS). **2013**. **Tokyo, Japan.**

Fahim S, Hussein W and Elbeltagy. Impact of microbial co-cultivation on biofuel production from agro-peels. 17th International Conference on Chemistry and the Environment (ICCE). **2019**. **Thessaloniki, Greece.**

Publication in international scientific conferences

Fahim S, Dimitrov K, Gancel F, Jacques P and Nikov I. Impact of energy supply and oxygen transfer on selective lipopeptides production of *Bacillus subtilis* ATCC 21332. Récents Progrès en Génie des Procédés, Numbers : 101. ISSN 1775-335- ISBN 2-910239-75- 6, **Ed.** Société Française de Génie des Procédés (SFGP). **2011**. **Paris, France.**

Sameh Fahim. The advanced trends in biosurfactant production and its environmental technologies applications, 5th HOPE Meeting, Japan Society for the Promotion of Science (JSPS). **2013**. **Tokyo, Japan.**

Publication in national and international scientific journals

- **Fahim S**, Krasimir Dimitrov, Frederique Gancel, Peggy Vauchel, Philippe Jacques, Iordan Nikov. (**2013)**. Impact of energy supply and oxygen transfer on selective lipopeptides production of *Bacillus subtilis* BBG 21. *Bioresource Technol.*; 126: 1-6.
- **Fahim S**, Krasimir Dimitrov, Peggy Vauchel, Frederique Gancel, Guillaume Delaplace, Philippe Jacques, Iordan Nikov. **(2013).** Oxygen transfer in three phase inverse fluidized bed bioreactor during biosurfactant production by *Bacillus subtilis*. *Biochemical Engineering Journal*; 76: 70-76.
- **Sameh Fahim** (**2013)**. The advanced trends in biosurfactant production and its environmental technologies applications. 5th HOPE Meeting, Japan Society for the Promotion of Science (JSPS). February 26- March 2, 2013; Tokyo, Japan.
- Hussein W. and **Fahim S**. (**2015)**. Modification of wild type *Bacillus subtilis* 168 strains for single surfactin production. *Int. J. Cuur. Micobiol. Appl. Sci*.; 4(11): 177.
- Hussein W. and **Fahim S**. (**2016)**. Expression of *pps* and *fen* promoters in *Bacillus subtilis* under optimal production condition. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*; 7(2): 1114-1121.
- Hussein W, Awad H and **Fahim S**. (**2016)**. Systemic resistance induction of tomato plants against ToMV virus by surfactin produced from *Bacillus subtilis* BMG02. *Americ. J. Microbio. Res*.; 4(5): 153-158.
- Hussein W. and **Fahim S**. (**2017)**. Detection of synthetases genes involved in nonribosomal lipopeptides (NRLPs) biosynthesis from *Bacillus* species by bioinformatics and PCR degenerated primers and estimation of their production. *Int. J. Pharma. Bio. Sci*.; 8(2): 116-125.
- **Fahim S.** (**2017)**. Production cursors of lipopeptides families by some *Bacillus* spp, *Inter. J. ChemTech Res*.; 10(6):1096-1103.
- Hussein W. and **Fahim S**. (**2017)**. Plipastatin Over-production in *Bacillus subtilis* using direct site mutation. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*; 8(3): 1013-1020.
- **Fahim S** and Hussein W. (**2017)**. Antibacterial potentials of surfactins against multidrug resistant bacteria. Research Journal of Pharmaceutical, Biological and Chemical Sciences; 8(3): 1076-1083.
- Hussein W, Ramadan WA and **Fahim S**. **(2018).** Isolation and characterization of *Bacillus* endophytic strains producers for non-ribosomal lipopeptides NRLPs from tomato. *International journal of research in pharmaceutical sciences*. 9(1): 128-134.
- Mandor A, **Fahim S**, Hussein W, Hanafy W and Elbeltagy A. **(2020).** Impact of endophytic lipopeptides use against some plant pathogenic microorganisms. *Menoufia journal of. Agric. Biotechnology*. 5(2): 43-65.

- Fekry A, **Fahim S**, Hussein W, Hanafy W and Elbeltagy A. **(2020).** Investigation of virulent and toxin genes expression in some salmonella serovars . *Menoufia journal of. Agric. Biotechnology*. 5(2): 67-81.
- Mahmoud EK and **Fahim SF**. **(2021).** Impact of microbial synergism on second generation production of bioethanol from fruit peels wastes. *Arab universities journal of agriculture* sciences. 29(2): 557-571.
- Habib MA, Abozid AA, Elsofany SA and **Fahim SF**. **(2021)**. Antimicrobial potential of cinnamon and garlic extracts against some foodborne pathogens. *Zagazig journal of agriculture research*. 48(3): 805-815.
- **Fahim SF,** Hussein W**. (2021).** Induction of response genes involved in the antioxidants defense system against wheat steam rust (*Puccinia graminis var. tritici*) by lipopeptides produced from endophytic *Bacillus amyloliquefaciens* and *Bacillus subtilis* BMG03. *Egyptian academic Journal of biological sciences. (F.Toxicology & Pest control)*.13(2): 257-268.
- **Fahim SF,** Hussein W, Awad H**. (2022).** Impact of endophytic lipopeptides and whitefly, (*Bemisia tabaci*) honeydew kairomone bacteria on limitation of the insects and its associated virus in tomato. *Egyptian academic Journal of biological sciences. (A. Entomology)*.15(1): 113-125.
- Ahmed F. Roumia, Walaa Hussein, Ghada M. El-Sayed, Amr M.A. Elmasry and **Sameh Fahim. (2022).** In-Silco and In-Vitro characterization of a symbiotic association bacteria isolated from entomopathogenic nematodes and producers for biological control non-ribosomal peptides. *Egyptian academic Journal of biological sciences. (F.Toxicology & Pest control)*.14(1): 117-131.
- **Hussein W**, Ramadan W. A, Mahmoud F. E and **Fahim S. (2024)** Impact of rhizosphere bacterial strains as biofertilizers: inhibiting fungal growth and enhancing the growth and immunity of sprouted barley as an alternative livestock feed. *Jordan Journal of Biological Sciences*. Under published.

Participation in national and international scientific projects

Research Support & Technology Development Grant (RSTDG) project - 8006. The advanced trends in NRP molecules production and its environmental technologies applications. The Science and Technology Development Fund (STDF), Academy of Scientific Research and Technology (ASRT), Egypt.

Applied Research Unit Fund - Bioenergy project. Production of Bioenergy (Biofuel – Biodiesel – Biogas) from Agricultural wastes, Menuofia University, Egypt.

Applied Research Unit Fund – Bio-feeding project. Production of biological feeding from agricultural wastes, Menuofia University, Egypt.

Participation in national and international scientific societies

Member of Société Française de Génie des Procédés **(SFGP), France.**

Member of Egyptian society of Applied Microbiology **(ESAM), Egypt.**

Participant in Japan Society for the Promotion of Science **(JSPS), Japan.**