

PERSONAL INFORMATION

Viviana Scognamiglio



**Institute of Crystallography**

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Sex FEMALE | Date of birth 24/04/1975 | Nationality ITALIAN

EDUCATION

01/2023 Senior researcher at Institute of Crystallography, National Research Council

10/2011 Permanent researcher at Institute of Crystallography, National Research Council

01/ 2008 PhD in Industrial Biotechnology at the University of Naples “Federico II”

12/2002 Master Degree in Molecular Biology at the University of Naples “Federico II”

WORK EXPERIENCE

The research interests include i) selection and characterization of proteins/microorganisms by circular dichroism and fluorescence spectroscopy for biosensing, ii) the development of Bioassay and Biosensor systems, Optical and Electrochemical (bio)sensors, Biosensors modified with Nanomaterials, Paper based (bio)sensors; iii) the biosensor prototyping and validation for real analyses of clinical, food and environmental samples; iv) microalgae biotechnology for biosensing, biofarm and bioremediation of microplastics

The research activity carried out was published in several papers as follows:  
 - 99 articles in ISI high impact peer-reviewed journals.

**H-index: 30, with 3402 total citations (Scopus, 2024).**

2024 - Editor in Chief of Bioscience Nanotechnology BMC Springer nature  
[\(https://biosciencenanotechnology.biomedcentral.com/\)](https://biosciencenanotechnology.biomedcentral.com/)

2023. Editor in Chief of MethodsX Science Direct  
<https://www.sciencedirect.com/journal/methodsx>

2023 - on going: permanent position as II level senior researcher at Institute of Crystallography, National Research Council of Rome.

2011 - 2022: permanent position as III level researcher at Institute of Crystallography, National Research Council of Rome.

2010 - 2011: researcher contract within SENSBIOSYN project grants for the realisation of electro-optical biosensors for nutraceutical application, at Institute of Crystallography, National Research Council of Rome.

2008 - 2010: researcher contract within FILAS grants “art. 41 comma 1 LR 9 del 17/02/2005” for the realisation of a biosensor/bioreactor for nutraceutical application (BIO-NUTRA project) at Institute of Crystallography, National Research Council of Rome.

2008: fellowship within MULTITASK project for the development of optical biosensors for agrifood application, at Institute of Crystallography, National Research Council of Rome.

2007: Habilitation in Biology Sez. A.

2004 - 2008: grants within a PhD project in Industrial Biotechnology for the development of optical biosensors for the detection of glucose for diabetic patients for biomedical application, at Institute of Protein Biochemistry, National Research Council of Naples.

2003 - 2004: grants from BioTekNet within the project "Esperti in Applicazioni Industriali delle Biotechnologie", at Institute of Protein Biochemistry, National Research Council of Naples.

## PERSONAL SKILLS

She worked in collaboration with several research institutes, universities and R&D companies, within the frame of national / international projects for the development of biosensors for environmental, security, biomedical and agrifood sectors and within the biotechnology of microalgae for biosensing, biofarm, and bioremediation.

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	Reading
English	C1	C1	C1	C1	C1

## ADDITIONAL INFORMATION

**Awards** "Top downloaded publication" for the article "Scognamiglio, V. (2013) Nanotechnology in glucose monitoring: Advances and challenges in the last 10 years. Biosensors and Bioelectronics 47: 12-25 "(IF 10.5).

Cover January 2018 on Trends in Analytical Chemistry for the article: Antonacci A. and Scognamiglio V. (2017) Nanostructured (Bio) sensors for smart agriculture TrAC 98, 95-103 (IF 10.5).

**Projects** **2023-2025.** PRIN 2022. "From NANOpastics to bioplastics towards environmental sustainability: a green algae-based approach" (NANOgrab). **Coordinator: IC-CNR Viviana Scognamiglio.**

**2021-2022.** POR FESR Progetti Gruppi di Ricerca "Biosensori su carta wireless per la telemedicina in oncologia e la misura di emocromo ed elettroliti" (E-CROME). Coordinator: Prof. Fabiana Arduini, Università di Roma Tor Vergata. **Responsible IC-CNR: Viviana Scognamiglio.**

**2019-2020.** INTERREG Ita-Hr Axis 3 OS 3.3 "Managed use of treated urban wastewater for the Quality of the Adriatic Sea (AdSWiM)". **Responsible of the Italian Unit: Viviana Scognamiglio.**

**2018-2019.** Bilateral project CNR/CNRST (Italy-Morocco) "Photosynthetic algae and cost-effective carbon black nanomaterial in a joint combination to develop miniaturised electrochemical sensor for a sustainable monitoring of herbicide in surface water (AlgaeCB)". **Responsible of the Italian Unit: Coordinator: Viviana Scognamiglio.**

**2017-2020.** ERANETMED RQ3-2016 Climate/demographic change and Environment "Integrated nanotechnologies for sustainable sensing water and sanitation" (NanoSWS)". **Coordinator: Viviana Scognamiglio.**

**2017-2019.** POR FESR 2014-2020 LIFE 2020 "Health Age, Rapid detection of cardiovascular emergencies (HA-R2EC)". **Responsible of the Italian Unit: Viviana Scognamiglio.**

**2016.** Prin 2016 - MIUR. Securing and ensuring sustainable use of agriculture waste, co- and by-products: an integrated analytical approach combining mass spectrometry with health effect-based biosensing. Unità di ricerca di Prof. Moscone Dinia Danila Palma (Università Tor Vergata) - Coordinatore: Prof. Roda Aldo

(Università di Bologna). **Collaborator**.

**2016**. MIUR-DAAD Joint Mobility Program (PPP Italien). Rapid detection of salmonella using a smart multiplexed impedimetric paper-based sensor. Unità di ricerca di Dr. Fabiana Arduini (Università Tor Vergata) - Coordinatore: Prof. Olfa Kanoun (Technische Universität Chemnitz, Germania). **Collaborator**.

**2013-2016**. PRNA 11.3.2013, n. 417. Ministero dell'Istruzione, dell'Università e della Ricerca. Titolo: Physiological, biochemical and transcriptomic adaptive responses to harmful UV radiation and temperature increases in Antarctic meiofaunal organisms: a walk from genes to organisms. **Collaborator**.

**2011-2015**. COST Action TD1102: "Photosynthetic proteins for Biotechnological applications: biosensors and biochips. Acronimo: PHOTOTECH. **Collaborator**.

**2014**. Adesione al Functional Food Network (FUFONET™). Dipartimento Scienze Bio-Agroalimentari. **Collaborator**.

**2013-2014**. Progetto BioTTasa – Trasferimento Tecnologico e integrazione di Biotecnologie per la Salute, l'Alimentazione e l'Ambiente. Ministero dello Sviluppo Economico, Bando RIDITT. **Collaborator**.

**2010-2012**. FILAS. "Sistema integrato di micro-nano biosensori per il monitoraggio remoto della contaminazione da pesticidi e metalli pesanti nelle falde acquifere del Lazio". Acronimo: MICROBIOSIS. **Collaborator**.

**2009-2012**. FILAS. "Sistema biosensoristico per la determinazione di contaminanti pericolosi per la salute umana in prodotti agro-alimentari". Acronimo: BIOAL, prot. N. 27/2009 del 15/01/09. **Collaborator**.

**2009-2011**. EU FP7-SME-2008-1. Biosensors and Sensors for the industrial biosynthesis process of widely used commercial antioxidants: nutraceuticals as additives for food and aquaculture promoting public health and safety". Acronimo: SENSBIOSYN, ID: 232522. **Collaborator**.

**2009-2011**. EU FP7-SME-2008-1. "Bio-sensor for Effective Environmental Protection and Commercialization – ENhanced". Acronimo: BEEP-C-EN, ID: 232082. **Collaborator**.

**2008-2010**. ETB-2007-34. "Una nuova piattaforma biotecnologia per biosensori multifunzionali" Ministero dello Sviluppo Economico". Acronimo: MULTIBIOPLAT. **Collaborator**.

**2007-2010**. FILAS. "Realizzazione di un bioreattore automatizzato". Acronimo: BIO-NUTRA. **Collaborator**.

**2006-2009**. EU FP6. Priority 5, Food quality and safety. NUTRA-SNACK. Ready to eat food for breakfast and sport activity with high content of nutraceuticals reducing a disease risk and promoting public health. **Collaborator**.

**2006-2009**. ASI 2005 MoMa: Dalle Molecole all'Uomo: La Ricerca Spaziale applicata al miglioramento della Qualità della Vita della popolazione anziana. **Collaborator**.

**2005-2011**. MIUR. "Ricerca industriale per la realizzazione di biosensori per il monitoraggio dell'inquinamento da diserbanti in agroalimentare". Acronimo: AGROBIOSENS. **Collaborator**.

**2005-2009**. MISE. "Innovazione di un prodotto biosensoristico nella realizzazione di un sistema base denominato Biosensore Multitasks e sua applicazione in agrofood basata su brevetto CNR" Acronimo: MULTITASKS. **Collaborator**.

**Editorials** **2024**. EIC of the Journal Bioscience nanotechnology BMC Springer nature

**2023**. EIC of the Journal MethodsX Elsevier

**2022-23**. Guest Editor Special Issue "Molecular Biosensing: From Theory to Point of Care Analytical Device" International Journal of Molecular Sciences (IF 6.2)

2021. Guest Editor Special Issue "The Impact of Treated Urban Wastewaters and Flood Discharge on the Quality of the Bathing Water" Water (IF 3)  
[https://www.mdpi.com/journal/water/special\\_issues/treated\\_urban\\_wastewater](https://www.mdpi.com/journal/water/special_issues/treated_urban_wastewater)

2020/2021. Guest Editor at Journal of Nanobiotechnology (IF 10.5)

2020/2021. Topic Editor at Nanomaterials (IF 5)  
[https://www.mdpi.com/journal/nanomaterials/topic\\_editors](https://www.mdpi.com/journal/nanomaterials/topic_editors)

2020. Viviana Scognamiglio and Leonardo Fraceto (UNESP, Brasile) are Guest Editor of the Special Issue "Towards nanotechnology in agrifood sciences" on Journal of Nanobiotechnology  
<https://www.biomedcentral.com/collections/agrifood>

2019. Editor Special Issue Sensors (ISSN 1424-8220) "Development of Enzymatic Electrochemical Biosensors and Applications" in the Section "Biosensors"  
[http://www.mdpi.com/journal/sensors/special\\_issues/enzymatic\\_biosensors](http://www.mdpi.com/journal/sensors/special_issues/enzymatic_biosensors)

2018. Editor Special Issue Chemosensors (ISSN 2227-9040) "Electrochemical Biosensors for Environmental, Agrifood and Biomedical Applications". [https://www.mdpi.com/journal/chemosensors/special\\_issues/EBEABA](https://www.mdpi.com/journal/chemosensors/special_issues/EBEABA)

Editor together with F. Arduini, G. Rea and G. Palleschi of the book entitled "Biosensors for Sustainable Food- New Opportunities and Technical Challenges", Elsevier 2016, ISSN 9780444635808 (electronic)

**Publications** H-index: 30, 99 articles with 3402 total citations (Scopus, 2024) on high impact factor journals:

Nanotoday IF 18.9  
 Trends in Biotechnology IF 21.9  
 Trends in Analytical Chemistry IF 14.9  
 Biosensors and Bioelectronics IF 12.6  
 Journal of Nanobiotechnology IF 10.4

50 articles in the period 2019-2023 (last 5 years)

**Main articles** De Felice, M., De Falco, M., Antonacci, A., Colella, S., Vedi, V., Isticato, R., ... & Scognamiglio, V. (2024). Latest trends in biosensors powered by nucleic acid isothermal amplification for the diagnosis of joint infections: from sampling to identification towards the point-of-care. *TrAC Trends in Analytical Chemistry*, 118036.

Nocerino, V., Miranda, B., Dardano, P., Colella, S., Vedi, V., Antonacci, A., ... & Scognamiglio, V. (2024). Design of an electrochemical hydrogel nanocomposite immunosensor for the detection of hemoglobin in blood. *Microchemical Journal*, 112022.

Scognamiglio, V., Nocerino, V., Miranda, B., De Stefano, L., Tempesta, E., Rossi, M., ... & Capitelli, F. (2024). Novel enhancing materials for biosensor design: The case studies of erbium-, gadolinium- and strontium-doped Ca<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>(OH)<sub>2</sub> hydroxyapatite. *Progress in Crystal Growth and Characterization of Materials*, 70(4), 100637.

Mele, A., Scognamiglio, V., Nocerino, V., De Stefano, L., Memo, A., Toro, R. G., ... & Capitelli, F. (2024). In-Depth Characterization of Natural Clays from Southeast Albania. *Crystals*, 14(10), 903.

Karim, K., Amine, A., Arduini, F., & Scognamiglio, V. (2024). Microwave-assisted synthesis of molecularly imprinted polymers for smartphone-based luminescent hemoglobin one-pot detection. *Journal of Pharmaceutical and Biomedical Analysis Open*, 4, 100033.

Medeghini, L., Calzolari, L., Capriotti, S., Bernabale, M., De Vito, C., Giustini, M., ... & Mignardi, S. (2024). How the materials knowledge of Roman mortars could be helpful for the production of future materials: The case of the Aqua Traiana aqueduct (Rome, Italy). *Cement and Concrete Research*, 179, 107478.

Manzo, M., Serra, A., Pedone, E., Pirone, L., Scognamiglio, V., De Felice, M., & De Falco, M. (2024). DNA Polymerase I Large Fragment from *Deinococcus radiodurans*, a Candidate for a Cutting-Edge Room-Temperature LAMP. *International Journal of Molecular Sciences*, 25(3), 1392.

Petronella, F., Stoia, D., Ziai, Y., Zaccagnini, F., Scognamiglio, V., Maniu, D., ... & De Sio, L. (2024). Plasmonic-based Biosensors for the Rapid Detection of Harmful Pathogens. In *Novel Optical Materials* (pp. 155-194).

De Felice, M., De Falco, M., Serra, A., Frisulli, V., Antonacci, A., Isticato, R., ... & Scognamiglio, V. (2023). Fighting nosocomial antibiotic-resistant infections through rapid and sensitive isothermal amplification-powered point-of-care (POC) diagnostics. *TrAC Trends in Analytical Chemistry*, 117135.

Antonacci, A., Frisulli, V., Carvalho, L. B., Fraceto, L. F., Miranda, B., De Stefano, L., ... & Scognamiglio, V. (2023). An all-green photo-electrochemical biosensor using microalgae immobilized on eco-designed lignin-based screen-printed electrodes to detect sustainable nanoherbicides. *International Journal of Molecular Sciences*, 24(12), 10088.

Capelli, D., Scognamiglio, V., & Montanari, R. (2023). Surface plasmon resonance technology: Recent advances, applications and experimental cases. *TrAC Trends in Analytical Chemistry*, 117079.

Masi, A., Antonacci, A., Moccia, M., Frisulli, V., De Felice, M., De Falco, M., & Scognamiglio, V. (2023). CRISPR-Cas assisted diagnostics: A broad application biosensing approach. *TrAC Trends in Analytical Chemistry*, 117028.

Clemente, F., Antonacci, A., Giardi, M. T., Frisulli, V., Tambaro, F. P., & Scognamiglio, V. (2023). Last Trends in Point-of-Care (POC) Diagnostics for the Management of Hematological Indices in Home Care Patients. *Biosensors*, 13(3), 345.

Capasso, D., Pirone, L., Di Gaetano, S., Russo, R., Saviano, M., Frisulli, V., ... & Scognamiglio, V. (2023). Galectins detection for the diagnosis of chronic diseases: An emerging biosensor approach. *TrAC Trends in Analytical Chemistry*, 116952.

Masi, A., Leonelli, F., Scognamiglio, V., Gasperuzzo, G., Antonacci, A., & Terzidis, M. A. (2023). *Chlamydomonas reinhardtii*: A Factory of Nutraceutical and Food Supplements for Human Health. *Molecules*, 28(3), 1185.

Scognamiglio, V., & Antonacci, A. (2022). Structural Changes as a Tool for Affinity Recognition: Conformational Switch Biosensing. *Crystals*, 12(9), 1209.

Susmel, S., Baldrighi, E., Krzelj, M., Bilic, J., Marini, M., Annibaldi, A., ... & Celussi, M. (2022). The Impact of Treated Urban Wastewaters and Flood Discharge on the Quality of Bathing Water. *Water*, 14(16), 2552.

Susmel, S., Girolametti, F., Fonti, V., Figueredo, F., Scognamiglio, V., Antonacci, A., ... & Annibaldi, A. (2022). The Interreg project AdSWiM: Managed use of treated wastewater for the quality of the Adriatic Sea. *Water*, 14(16), 2460.

Khashayar, P., Al-Madhagi, S., Azimzadeh, M., Scognamiglio, V., & Arduini, F. (2022). New frontiers in microfluidics devices for miRNA analysis. *TrAC Trends in Analytical Chemistry*, 116706.

Antonacci, A., Arduini, F., Attaallah, R., Amine, A., Giardi, M. T., & Scognamiglio, V. (2022). A Proof-of-Concept Electrochemical Cytosensor Based on *Chlamydomonas reinhardtii* Functionalized Carbon Black Screen-Printed Electrodes: Detection of *Escherichia coli* in Wastewater as a Case Study. *Biosensors*, 12(6), 401.

Susmel, S., Girolametti, F., Fonti, V., Figueredo, F., Scognamiglio, V., Antonacci, A., & Annibaldi, A. (2022). The Interreg Project AdSWiM: Managed Use of Treated Wastewater for the Quality of the Adriatic Sea. *Water*, 14(16), 2460.

Khshayar, P., Al-Madhagi, S., Azimzadeh, M., Scognamiglio, V., & Arduini, F. (2022). New frontiers in microfluidics devices for miRNA analysis. *TrAC Trends in Analytical Chemistry*, 116706.

Bartolucci, C., Scognamiglio, V., Antonacci, A., & Fraceto, L. F. (2022). What makes nanotechnologies applied to agriculture green?. *Nano Today*, 43, 101389.

De Falco, M., Porritiello, A., Rota, F., Scognamiglio, V., Antonacci, A., Del Monaco, G., & De Felice, M. (2022). The Finely Coordinated Action of SSB and NurA/HerA Complex Strictly Regulates the DNA End Resection Process in *Saccharolobus solfataricus*. *International journal of molecular sciences*, 23(5), 2582.

De Felice, M., De Falco, M., Zappi, D., Antonacci, A., & Scognamiglio, V. (2022). Isothermal amplification-assisted diagnostics for COVID-19. *Biosensors and Bioelectronics*, 114101.

Antonacci, A., Zappi, D., Giardi, M. T., & Scognamiglio, V. (2021). Photosynthesis-based biosensors for environmental analysis of herbicides. *Case Studies in Chemical and Environmental Engineering*, 4, 100157.

Antonacci, A., Attaallah, R., Arduini, F., Amine, A., Giardi, M. T., & Scognamiglio\*, V. (2021). A dual electro-optical biosensor based on *Chlamydomonas reinhardtii* immobilised on paper-based nanomodified screen-printed electrodes for herbicide monitoring. *Journal of nanobiotechnology*, 19(1), 1-13.

Scognamiglio, V., Giardi, M. T., Zappi, D., Touloupakis, E., & Antonacci\*, A. (2021). Photoautotrophs–Bacteria Co-Cultures: Advances, Challenges and Applications. *Materials*, 14(11), 3027.

Antonacci\*, A., Bertalan, I., Giardi, M. T., Scognamiglio, V., Turemis, M., Fisher, D., & Johanningmeier, U. (2021). Enhancing resistance of *Chlamydomonas reinhardtii* to oxidative stress fusing constructs of heterologous antioxidant peptides into D1 protein. *Algal Research*, 54, 102184.

Giardi, M. T., Zappi, D., Turemis, M., Varani, G., Celso, F. L., Barone, G., ... & Scognamiglio\*, V. (2021). Quantum dots functionalised artificial peptides bioinspired to the D1 protein from the Photosystem II of *Chlamydomonas reinhardtii* for endocrine disruptor optosensing. *Talanta*, 224, 121854.

Antonacci, A., Celso, F. L., Barone, G., Calandra, P., Grunenber, J., Moccia, M., & Scognamiglio\*, V. (2020). Novel atrazine-binding biomimetics inspired to the D1 protein from the photosystem II of *Chlamydomonas reinhardtii*. *International Journal of Biological Macromolecules*, 163, 817-823.

Attaallah, R., Antonacci, A., Mazzaracchio, V., Moscone, D., Palleschi, G., Arduini, F., & Scognamiglio\*, V. (2020). Carbon black nanoparticles to sense algae oxygen evolution for herbicides detection: Atrazine as a case study. *Biosensors and Bioelectronics*, 112203.

Castrovilli, M. C., Bolognesi, P., Chiarinelli, J., Avaldi, L., Cartoni, A., Calandra, P., & Scognamiglio\*, V. (2020). Electro spray deposition as a smart technique for laccase immobilisation on carbon black-nanomodified screen-printed electrodes. *Biosensors and Bioelectronics*, 112299.

Antonacci\*, A., & Scognamiglio\*, V. (2020). Biotechnological advances in the design of algae-based biosensors. *Trends in Biotechnology*, 38(3), 334-347.

Bartolucci, C., Antonacci, A., Arduini, F., Moscone, D., Fraceto, L., Campos, E., & Santander, J. M. P. (2020). Green nanomaterials fostering agrifood sustainability. *TrAC Trends in Analytical Chemistry*, 125, 115840.

Arduini, F., Micheli, L., Scognamiglio, V., Mazzaracchio, V., & Moscone, D. (2020). Sustainable materials for the design of forefront printed (bio) sensors applied in agrifood sector. *TrAC Trends in Analytical Chemistry*, 115909.

Arduini, F., Cinti, S., Mazzaracchio, V., Scognamiglio, V., Amine, A., & Moscone, D. (2020). Carbon black as an outstanding and affordable nanomaterial for electrochemical (bio) sensor design. *Biosensors and Bioelectronics*, 156, 112033.

Antonacci, A., Scognamiglio, V., Mazzaracchio, V., Caratelli, V., Fiore, L., Moscone, D., & Arduini, F. (2020). Paper Based Electrochemical Devices for the Pharmaceutical Field: State of the Art and Perspectives. *Frontiers in Bioengineering and Biotechnology*, 8.

Attaallah, R., Antonacci, A., Arduini, F., Amine, A., & Scognamiglio\*, V. (2020). Nanobiosensors for Bioclinical Applications: Pros and Cons. In *Green Nanoparticles* (pp. 117-149). Springer, Cham.

Cacciotti, I., Pallotto, F., Scognamiglio, V., Moscone, D., & Arduini, F. (2020). Reusable optical multi-plate sensing system for pesticide detection by using electrospun membranes as smart support for acetylcholinesterase immobilisation. *Materials Science and Engineering: C*, 111, 110744.

Attaallah, R., Antonacci, A., Arduini, F., Amine, A., Scognamiglio\* V. (2019) Nanobiosensors for bioclinical applications: pros and cons, in *Green Nanoparticles - Synthesis and Biomedical Applications*, Eds. Jayanta Kumar Patra, Gitishree Das, Leonardo F. Fraceto, Estefânia Vangelie Ramos Campos, published by Springer Nature Switzerland (in press).

Arduini, F., Cinti, S., Scognamiglio, V., Moscone, D. (2019) Nanomaterial based-sensors, in *Handbook of Nanomaterials in Analytical Chemistry*, Ed. Chaudhery Mustansar Hussain, published by Elsevier, pp.329-355.

Scognamiglio\* V., Arduini F. (2019). The technology tree in the design of glucose biosensors. *TrAC Trends in Analytical Chemistry*, 115642.

Castrovilli, M. C., Bolognesi, P., Chiarinelli, J., Avaldi, L., Calandra, P., Antonacci, A., Scognamiglio\*, V. (2019). The convergence of forefront technologies in the design of laccase-based biosensors-an update. *TrAC Trends in Analytical Chemistry*.

Pagliarini, V., Neagu, D., Scognamiglio, V., Pascale, S., Scordo, G., Volpe, G., & Moscone, D. (2019). Treated Gold Screen-Printed Electrode as Disposable Platform for Label-Free Immunosensing of Salmonella Typhimurium. *Electrocatalysis*, 10(4), 288-294.

Antonacci A., Scognamiglio\* V. (2019). Photosynthesis-based hybrid nanostructures: electrochemical sensors and photovoltaic cells as case studies. *TrAC Trends in Analytical Chemistry*. 115, 100-109.

Scognamiglio\* V., Antonacci, A., Arduini, F., Moscone, D., Campos, E. V., Fraceto, L. F., Palleschi, G. (2019). An eco-designed paper-based algal biosensor for nanoformulated herbicide optical detection. *Journal of Hazardous Materials*. 373, 483-492

Arduini, F., Scognamiglio V., Cinti, S., Amine, A., Antonacci, A., Vasiljevic, J., & Palleschi, G. (2019). Enzyme-Based Materials. *Handbook of Smart Materials in Analytical Chemistry*, 179-209.

Antonacci, A. Lambreva M.D., Arduini F., Moscone, D., Palleschi G., Scognamiglio\* V. (2018). A whole cell optical bioassay for the detection of chemical warfare mustard agent simulants. *Sensors and actuators B: Chemical* 257, 658-665.

Cinti, S., Scognamiglio V., Moscone, D., Arduini, F. (2018). Efforts, Challenges, and Future Perspectives of Graphene-Based (Bio) sensors for Biomedical Applications. In *Graphene Bioelectronics* (pp. 133-150). Elsevier.

Pagliarini V., Neagu D., Scognamiglio V., Pascale S., Scordo G., Volpe G., Delibato E., Pucci E., Notargiacomo A., Pea M., Moscone D., Arduini\* F. (2018). Treated gold screen-printed electrode as disposable platform for label free immunosensing of Salmonella Typhimurium. *Electrocatalysis*, 1-7.

Antonacci A., Arduini F., Scognamiglio\* V. (2018). Vanguard Nano(bio)sensor Technologies Fostering the Renaissance of Agriculture, in *Emerging Trends, in Agri-Nanotechnology* (Eds. H.B. Singh, S.

Mishra, L.F. Fernandes Fraceto, Renata de Lima) CABI Book, UK  
<https://www.cabi.org/bookshop/book/9781786391445>

Arduini F., Scognamiglio V., Cinti S., Amine A., Antonacci A., Vasiljevic J., Favaretto G., Moscone D., Palleschi G. (2018). Enzyme-based materials, in Handbook of Smart Materials in Analytical Chemistry (vol. 1) (Eds. Miguel de la Guardia and Francesc A. Esteve-Turrillas) WILEY

Antonacci A., Arduini F., Moscone D., Palleschi G., V. Scognamiglio\*. (2018) Nanostructured (bio)sensors for smart agriculture. TrAC, Trends in Analytical Chemistry 98, 95-103.

Antonacci A., Lambrea M.D., Arduini F., Moscone D., Palleschi G., Scognamiglio\* V. (2018) A whole cell optical bioassay for the detection of chemical warfare mustard agent simulants. Sensors and actuators B: Chemical 257, 658-665.

Arduini, F., Cinti, S., Scognamiglio, V., Moscone, D., Palleschi, G. (2017). How cutting-edge technologies impact the design of electrochemical (bio) sensors for environmental analysis. A review. Analytica Chimica Acta 959, 15-42.

Zobnina V., Lambrea M.D., Rea G., Campi G., Antonacci A., Scognamiglio V., Giardi M.T., Polticelli F. (2017). The plastoquinol-plastoquinone exchange mechanism in photosystem II. Insight from molecular dynamics simulations. Photosynthesis Research 1-16.

Scognamiglio\* V., Antonacci A., Lambrea M.D., Arduini F., Palleschi G., Litescu S.C., Rea, G. (2016). Application of Biosensors for Food Analysis. Food Safety, 395-434.

Scognamiglio\* V., Antonacci A., Patrolecco L., Lambrea M.D., Litescu S.C., Ghuge S.A., Rea G. (2016). Analytical tools monitoring endocrine disrupting chemicals. TrAC Trends in Analytical Chemistry, 80, 555-567.

Antonacci A., Arduini F., Moscone D., Palleschi G., Scognamiglio\* V. (2016). Commercially Available (Bio) sensors in the Agrifood Sector. In Biosensors for Sustainable Food - New Opportunities and Technical Challenges (pp. 315-340). Elsevier.

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#### Oral talks

Viviana Scognamiglio. From NANOpastics to bioplastics towards environmental sustainability: a GReen Algae-Based approach. Department event. June 5, 2024.

Viviana Scognamiglio. Green Christmas Session 2023. E-Conference "Photosynthetic Microorganisms For Sustainable Development". 6-7 December 2023, Rome, Italy

Viviana Scognamiglio. Biosensor technology for environmental and biomedical sectors. Invited talk at webinar for IBBR-CNR. March, 9 2022.

Viviana Scognamiglio. Crosscutting technologies in biosensing for agro-environmental and biomedical applications. Invited talk at Jointed Workshop between the Institute of Crystallography-CNR and the Institute of Materials Science, Technische Universität (TU) Dresden. July, 1 2022.

Viviana Scognamiglio. Pathogens detection by innovative biosensors-based approaches. AdSWiM Project - The 6th Joint Project Steering Committee and General Assembly Online Meeting and Final Project Event. 14 December 2021 on line.

Viviana Scognamiglio. Photosynthesis-based biosensors towards the environmental protection. ECOMAP Event "Biodiversità e specie aliene tra mare e zona costiera: fruizione e mantenimento. 19 November 2021

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Viviana Scognamiglio. Algal biosensors for environmental monitoring. Workshop "Photosynthetic microorganisms for sustainable development" 15-17 December 2021 (on line).

Amina Antonacci, Pietro Calandra, Giampaolo Barone, Fabrizio Lo Celso, Viviana Scognamiglio\*. Bioinspired herbicide binding proteins from *Chlamydomonas reinhardtii* as novel synthetic biomimetics for sensing applications. Biosensors 2021 "30th Anniversary World Congress on Biosensors" 26-29 Luglio 2021 (oral communication).

Viviana Scognamiglio\*. Algal biosensors for environmental monitoring. Green Christmas Session "Photosynthetic microorganisms for sustainable development". 16-17 Dicembre 2021 (oral communication su invito).

Viviana Scognamiglio\*, Amina Antonacci. Algae-Based Biosensors. Conferenza di Istituto "1st Conference on Crystallography, Structural Chemistry and Biosystems", Catania (on line) 4-6 ottobre 2021 (oral communication).

Viviana Scognamiglio\*. Algae based biosensors and total toxicity. Workshop Remtech EXPO (on line) 24 settembre 2021 (oral communication su invito).

Sabina Susmel, Federico Figueredo, Fabiana Arduini, Amina Antonacci, Viviana Scognamiglio\*. Innovative (bio)sensors in the frame of Interreg Italy-Croatia AdSWIM Project "Managed use of treated urban wastewater for the quality of the Adriatic Sea". Workshop Progetto DESIR responsabile Dr. Lorenzo Avaldi, ISM-CNR, 25 Febbraio 2021 (oral communication su invito).

Lezione sui biosensori dal titolo "Algae biotechnology towards the design of sustainable biosensors for the environmental protection" nell'ambito del Corso di Dottorato presso l'Università di San Paolo, Brasile, UNESP, su invito del Prof. Leonardo Fraceto, 21 settembre 2021.

Lezione sui biosensori dal titolo "Biosensori e loro applicazioni nel controllo ambientale, monitoraggio della sicurezza, analisi agroalimentare e diagnosi biomedica" per il Liceo ISIS De Nicola di Napoli, 16 aprile 2021.

Attaallah, R., Antonacci, A., Mazzaracchio, V., Arduini, F., Moscone, D., Palleschi, G., Amine, A., Scognamiglio\*, V. An electrochemical biosensor exploiting algae-based carbon black modified screen-printed electrodes developed within the Bilateral Agreement Italy-Morocco ALGAE-CB. The Ninth International Workshop on Biosensors, 09-11 October 2019 / Merzouga, Morocco

Scognamiglio V. Biosensors and their applications in environmental control, security monitoring, agrifood analysis, and biomedical diagnosis. Seminari 2017-2018 IBBR-CNR, Napoli, Via Pietro Castellino 111, 17 Aprile 2018.

Scognamiglio V. Biosensors and their applications in environmental control, security monitoring, agrifood analysis, and biomedical diagnosis. Progetto Cassini: Interdisciplinary Scientific Workshop, within the frame of PhD School in Scienze della Materia, Nanotecnologie e Sistemi Complessi, Università degli Studi Roma Tre, Via della Vasca Navale 84, Roma, 18 May 2018.

Antonacci A. and Scognamiglio\* V. A paper algal biosensor for nanoatrazine optical detection. DSCTM Conference, Assisi 24-26 September 2018.

Scognamiglio V. Biosensors and their applications in environmental control, security monitoring, agrifood analysis, and biomedical diagnosis. Seminari d'Area 2018, Sala Conferenze dell'AdR1 del CNR di Montelibretti, 3 October 2018.

Scognamiglio V. Sviluppo di sistemi di analisi ambientali basati sull'utilizzo dell'alga fotosintetica verde *Chlamydomonas reinhardtii*. Workshop NEMO, 21 November 2017, AdR1, Roma, Italia.

Scognamiglio V. Chemical warfare agent simulant detection in drinking water exploiting a whole cell

optical bioassay. Eighth International Workshop on «Biosensors for food safety and environmental monitoring» BIOCAP2017, 12-14 October 2017, Rabat, Morocco.

Scognamiglio V. The research activity of IC Biosensor Group and its proposal for NanoSWS project. Kick-off Meeting NanoSWS, Eranetmed - 14 October 2017, Rabat, Morocco.

Scognamiglio V., Antonacci A., Lambreva M.D., Rea G. Biotecnologie per la gestione sostenibile del monitoraggio e della produzione agro-alimentare. BIOTTASA - Technology Brokerage Event, Pula, Cagliari, 6 October 2014.

Scognamiglio V., Romagnoli P., Rambaldi I., Cano J., Pezzotti I., Pezzotti G., Arduini F., Giardi M.T. 2010 Tecnologie biosensoristiche avanzate per lo sviluppo di strumenti innovativi per il rilevamento di contaminanti ambientali ed agroalimentari. INBB 2010 Rome 21-22 October 2010.

Scognamiglio V., Giardi M.T. IV Workshop del Gruppo Sensori della Divisione di Chimica Analitica della Società Chimica Italiana 15-17 June 2010 Università degli studi di Teramo, Facoltà di Agraria.

Scognamiglio V., Antonacci A., Lambreva M., Buonasera K., Stano S., Polticelli F., Pochetti P., Giardi M.T., Rea G. New biomimetic peptides for herbicides detection. PHOTOTECH 2013 Conference - COST Meeting Antwerp 10-12 April 2013.

Tibuzzi A., Pezzotti G., Pezzotti I., Scognamiglio V., Rea G., Giardi M.T. Portable modular automatic biosensors for fluorescence emission and electron transfer measurements. 1st Bio-Sensing technology conference 10-12 November 2009 Marriott Bristol City Centre, UK.

Giardi M.T., Scognamiglio V., Romagnoli P., Rambaldi I., Tibuzzi A., Rodio G., Canu J., Pezzotti I., Pezzotti G. A new platform of biosensors contemporaneous measurement of electrogenic and fluorescent biomaterials to support the technical development of most biosensors. Fourth International Workshop on "Biosensors for Food Safety and Environmental Monitoring" 1-3 October 2009 Tangier-Morocco.

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Scognamiglio V., Lambreva M., Antonacci A., Rea G., Lavecchia T., Pezzotti I., Giardi M.T. A multi-array biosensor for fluorescence detection of pollutants. XIII International Symposium on Luminescence Spectrometry 7-11 September 2008 Bologna, Italy.

Trampus P., Pezzotti G., Scognamiglio V., Giardi M.T. Sensors for biological experiments in Space. 4° Congresso Nazionale dell'ISSBB 31 March - 2 April 2009, Santa Margherita Ligure, Liguria, Italy.

Scognamiglio V. Photosynthetic proteins for biosensor technological application. Visit of Panel C1 per la valutazione degli istituti. 15 October 2009, IC-CNR Via Salaria Monterotondo, Roma.

Scognamiglio V., Giardi M.T. Incontro della rete CNR con il distretto tecnologico delle Bioscienze del Lazio. 29 May 2009, Piazzale Aldo Moro - Aula Marconi CNR, Rome.

Scognamiglio V., Giardi M.T. Technological Applications of Proteins and Enzymes in the Development of Biosensors for a Sustainable Agriculture" Conferenza di Dipartimento. 17-18 December 2009, Piazzale Aldo Moro - Aula Marconi CNR, Rome.

#### Abstract and posters

Valeria Nocerino, Bruno Miranda, Principia Dardano, Sara Colella, Vincenzo Vedi, Amina Antonacci, Vincenzo Mazzaracchio, Fabiana Arduini, Luca De Stefano\*, Viviana Scognamiglio\*. A hydrogel nanocomposite immunosensor for the electrochemical detection of haemoglobin. BIOCAP 2024 - Marrakech 3-5 October 2024.

Sara Colella, Vincenzo Vedi, Amina Antonacci, Leonardo F. Fraceto, Viviana Scognamiglio\*. Poly( $\epsilon$ -caprolactone) (PCL) nanoencapsulated metribuzin optical detection using the green photosynthetic microalga

Chlamydomonas reinhardtii. BIOCAP 2024 - Marrakech 3-5 october 2024.

Vincenzo Vedi, Sara Colella, Amina Antonacci, Giulia Gasperuzzo, Alessia Di Fraia, Gabriella Fiorentino, Viviana Scognamiglio\*. Microalgae biotechnology: applications of the green photosynthetic alga Chlamydomonas reinhardtii from biosensing to biofarm and bioremediation. BIOCAP 2024 - Marrakech 3-5 october 2024.

Attaallah, R., Antonacci, A., Mazzaracchio, V., Arduini, F., Moscone, D., Palleschi, G., Amine, A., Scognamiglio\*, V. An electrochemical biosensor exploiting algae-based carbon black modified screen-printed electrodes developed within the Bilateral Agreement Italy-Morocco ALGAE-CB. The Ninth International Workshop on Biosensors, 09-11 October 2019 / Merzouga, Morocco

M. C. Castrovilli, J. Chiarinelli, P. Bolognesi, E. Tempesta, P. Calandra, A. Cartoni, A. Antonacci, L. Avaldi, F. Arduini, V. Scognamiglio. Electropray ionisation technique in biosensor design: laccase as case study. XXVIII Congress of the Analytical Chemistry Division, Bari 22 – 26 September 2019

J. Vasiljević, A. Antonacci, L. F. Fraceto, E.V.R. Campos, V. Scognamiglio. Nanoatrazine optical detection for smart agriculture. XXVII Congress of the Analytical Chemistry Division, Bologna 16-20 Settembre 2018.

M. Moccia, A. Antonacci, F. Arduini, S. Cinti, D. Moscone, L.F. Fraceto, E.V.R. Campos, R. Grillo, M. Saviano, V. Scognamiglio\*. A paper based optical biosensor to detect nanocapsulated atrazine exploiting an ad hoc designed biomimetic peptide. Biosensors 2018, 28th Anniversary World Congress on Biosensor, Miami, Florida, USA, 12-15 Giugno 2018

A. Antonacci, F. Arduini, D. Moscone, G. Palleschi, V. Scognamiglio\*. Chemical warfare agent simulant detection in drinking water exploiting a whole cell optical bioassay. Eighth International Workshop on «Biosensors for food safety and environmental monitoring» BIOCAP2017, 12-14 October 2017, Rabat, Morocco.

A. Antonacci, L. Moro, G. Pezzotti, G. Fusella, M. T. Giardi, V. Scognamiglio\*. Chlamydomonas biofarm at the forefront of a sustainable life in space. International Astronautical Congress IAC2017, 25-29 September 2017, Adelaide, Australia.

L. Moro, M. T. Giardi, G. Pezzotti, M. Turemis, J. Sanchís, M. Farré, R. Denaro, M. G. Giacobbe, F. Crisafi, V. Scognamiglio. Fast Pesticide Pre-Screening in Marine Environment using a Green Microalgae-based Optical Bioassay. International Congress & Expo on Biotechnology and Bioengineering, 25-27 September 2017, Valencia, Spain.

A. Antonacci, L. F. Fraceto, E. V. R. Campos, R. Grillo, V. Scognamiglio\*. An optical biosensor based on Chlamydomonas reinhardtii microalgae to detect poly( $\epsilon$ -Caprolactone) nanocapsulated atrazine for smart agriculture. 7th EOS Topical Meeting on Optical Microsystems, O $\mu$ S'17, 10-14 September 2017, Island of Capri, Italy.

M.D. Lambrea, A. Antonacci, I. Husu, V.N. Peeva, S.C. Litescu, V. Zobnina, I. Bertalan, G. Pezzotti, K. Buonasera, V. Scognamiglio, F. Polticelli, U. Johanningmeier, M.T. Giardi, G. Rea. Wiring genetically engineered Chlamydomonas cells for electrochemical biosensors. 17th Congress of the European Society for Photobiology, 4-8 September 2017, Pisa, Italy.

A. Antonacci, F. Arduini, D. Moscone, G. Palleschi, V. Scognamiglio\*. A whole cell optical bioassay for the detection of chemical warfare agent simulants. The 2nd International Conference CBRNE - Research & Innovation, 29 May – 1st June 2017, Lyon, France.

A. Antonacci, F. Arduini, D. Moscone, G. Palleschi, V. Scognamiglio\*. A whole cell optical bioassay for the detection of chemical warfare agent simulants. The 2nd International Conference CBRNE - Research & Innovation, 29 May – 1st June 2017, Lyon, France.

G. Rea, M. Lambrea, V. Scognamiglio, A. Antonacci, P. Stano, V. Zobnina, M.T. Giardi, G. Campi, I. Bertalan, U. Johanningmeier, F. Polticelli. 2015. Bioinformatics approaches to photosystem II structure, function and engineering. Final Conference of the COST Action TD1102 Photosynthetic proteins for biotechnological

applications: biosensors and biochips. 7-9 Ottobre 2015. pp. 22

S.C. Litescu, I. Vasilescu, S. Eremia, G.L. Radu, I. Balint, F. Papa, V. Scognamiglio, A. Antonacci, M Lambreva, G. Rea. 2015. Bioinformatics approaches to photosystem II structure, function and engineering. Final Conference of the COST Action TD1102 Photosynthetic proteins for biotechnological applications: biosensors and biochips. 7-9 Ottobre 2015. pp. 40.

M. D. Lambreva, A. Antonacci, V. Scognamiglio, F. Polticelli, I. Bertalan, U. Johannngmeier, M.T. Giardi, G. Rea. 2015. Final Conference of the COST Action TD1102 Photosynthetic proteins for biotechnological applications: biosensors and biochips. 7-9 Ottobre 2015. Production and characterization of chlamydomonas mutants for optical and electrochemical bio-sensing. pp. 65

V. N. Peeva, M. D. Lambreva, F. Polticelli, A. Antonacci, V. Scognamiglio, T. Maslenkova, I. Bertalan, U. Johannngmeier, G. Rea. 2015. Final Conference of the COST Action TD1102 Photosynthetic proteins for biotechnological applications: biosensors and biochips. 7-9 Ottobre 2015. Photochemical characterization of chlamydomonas mutants for herbicide perception. pp. 67.

Supervision  
and didactics

Stage for Miss Raouia Attahallah from University of Casablanca Hassan II, within the Bilateral Project Bilaterale Italy-Morocco 2018-2019 entitled "Photosynthetic algae and cost-effective carbon black nanomaterial in a joint combination to develop miniaturised electrochemical sensor for a sustainable monitoring of herbicide in surface water (AlgaeCB)". March-June and October-November 2019.

Stage for undergraduation for Miss Jelena Vasiljević with a thesis entitled "Sviluppo di un biosensore elettrochimico basato su carta per la misura dell'attività dell'enzima colinesterasi in pazienti affetti da morbo di Alzheimer sottoposti a trattamento con fisostigmina". Tutor: Prof Bruno Tirillini, University of Urbino "Carlo Bo". Co-tutor: Viviana Scognamiglio.

Lesson on invitation entitled "La tecnologia dei biosensori nel settore agrifood e nel controllo ambientale" at University of Basilicata, Potenza, 22 March 2019.

Lesson on invitation entitled "From the lab to the market: Commercially Available (Bio)sensors in the Agrifood Sector". PhD School "fifth SAMOSS-training school on Biosensors" within the Project ITN "Initial Training Network SAMOSS (FP7-PEOPLE-2013-ITN)" coordinator Prof. Karl-Heinz Feller, University of Applied Sciences Jena. Rome, 26 September 2016.

November 25, 2024

VIVIANA SCOGNAMIGLIO

