

Dr. Taleen Barbosa Peker

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PROFILE

Ph.D. graduated in pharmaceutical-oriented chemistry from Sorbonne University with expertise in medicinal chemistry and biology. Demonstrate high adaptability, strong problem-solving skills and a collaborative approach to scientific challenges. Eager to leverage scientific expertise to tackle next scientific challenges.

WORK EXPERIENCE

Development Scientist - *Touchlight*

January to September 2025, London UK

- Development and optimisation of dNTPs manufacturing process.
- Enhance dbDNA production conditions improving yield and efficiency.

Chemist - *Exactmer*

Mai 2023 to December 2024, London UK

- Design and synthesis of novel phosphoramidite protecting groups to improve oligonucleotides solubility.
- Synthesis and evaluation of photocleavable protecting groups for liquid phase oligonucleotide synthesis. - Synthesis of unimolecular polyethylene glycols (PEG).

Market Analyst - *Hanson Wade*

October 2022 to Mai 2023, London UK

- Conducted market analysis within the pharmaceutical biotech sector
- Supported business development strategies through qualitative market research

PhD in Chemistry - *Sorbonne University*

October 2018 to December 2021, Paris France

- Supervisors: Dr. Roba Moumné (Laboratory of Biomolecules, UMR 7203) and Prof. Chahrazade El Amri (Laboratory of Biological Adaptation and Ageing, UMR 8256)
- Title: « Design of selective inhibitors of serine proteases, involved in inflammatory processes, by dynamic combinatorial chemistry on folded peptide scaffolds »

Master thesis - *Sorbonne University*

January to June 2018, Paris France

- Supervisor: Dr. Roba Moumné (Laboratory of Biomolecules, UMR 7203)
- Title: "Grafting synthesized amino acid side chains on a peptide scaffold by dynamic combinatorial chemistry, purification and analyse of the amplified product "

Research intern - *University of British Columbia*

April to August 2017, Vancouver Canada

- Supervisor: Dr. David M. Perrin
- Title: "Synthesis of a bio-reducible linkers (5 steps) for a bioconjugate complex"

Bachelor thesis

April to June 2016, Créteil France

- Supervisors: Dr. André Pawlak (Mondor Institute for Biological Research, U955 team 21) and Sabrina Belbekhouche (East Paris Institute of Chemistry and Material, UMR 7182)
- Title: "Design of therapeutic vectors – *in vitro* and *in vivo* assays"

EDUCATION

Paris, France

2018 - 2021

Sorbonne University (ex Pierre and Marie Curie University)

Ph.D in Chemistry

2017 - 2018

Second year of **master's degree in Biochemistry and Molecular Biology**

2016 - 2017

First year of **master's degree in chemistry**

SKILLS

Chemistry

- Multi-steps organic synthesis and purification
- Solid phase peptide synthesis: Fmoc strategy, head to tail cyclisation
- Dynamic combinatorial chemistry: library generation and amplification
- Oligonucleotide chemistry
- Oligonucleotide liquid phase synthesis
- RMN, IR, UV, mass spectrometry (ESI, MALDI, MS/MS), HPLC

Biology

- Cell culture
- Enzymatic activity study
- Enzymatic inhibition and mechanistic assays
- Rolling circle amplification
- Agarose gel electrophoresis
- Fragment analyser

Interpersonal

- Communication
- Problem solving
- Creative thinking
- Attention to details
- Teamwork
- Adaptability

PUBLICATIONS

- Mansour, O.; Peker, T.; Hamadi, S.; Belbekhouche, S. Glucose-Responsive Capsules Based on (PhenylboronicModified Poly(Lysine)/Alginate) System. Eur. Polym. J. 2019, 120 (August), 109248.
- Peker T., Zagiél, B. et al. Dynamic Amino Acid Side-Chains Grafting on Folded Peptide Backbone**. Chem. - A Eur. J. 28, (2022).
- Peker T., Zagiél, B. et al. Analytical Tools for Dynamic Combinatorial Libraries of Cyclic Peptides. ChemBioChem. 24, (2023).