

Mehran Mostafavi, Pr
mehran.mostafavi@universite-paris-saclay.fr
+33 – (0)1 69 15 78 87

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Object/ Highly favorable for the doctoral defense of Ms. Barbora Sedmidubská.

I am writing to provide an enthusiastic and wholehearted recommendation for Ms. Barbora Sedmidubská, with whom I had the privilege of working closely for a significant period at the Institute of Physical Chemistry (ICP) at the University of Paris-Saclay in Orsay, France.

Ms. Barbora Sedmidubská conducted part of her doctoral thesis within my team. Her project focused on understanding the mechanism of action of molecules as radiosensitizers during radiotherapy. The challenge for Ms. Sedmidubská was to extend her gas-phase studies, carried out at the Czech Technical University in Prague under the supervision of Prof. Marie Davidková and Dr. Jaroslav Kočíšek, to studies in the liquid phase. With Dr Sergey Denisov, we proposed that she undertake pulse radiolysis studies to investigate the mechanism of low-energy electron and hydrated electron capture in the liquid phase at room temperature. It is evident that the scientific approach to studies in different phases is not identical. Barbora quickly grasped the new concepts specific to fast electron transfer studies in solution. She conducted several series of experiments with our picosecond pulse radiolysis and ultimately succeeded in obtaining highly interesting results.

Given Barbora's track record, outstanding contributions to our research endeavors, and her unwavering commitment to excellence, her ability to independently drive projects forward makes her an invaluable asset to any scientific endeavor. Moreover, her exemplary teamwork and congenial personality have made her an excellent collaborator and an indispensable member of our research community.

Barbora has also demonstrated the necessary capabilities to tackle the complexities of these studies. Furthermore, she successfully synthesized her results, which will be published soon. Her thesis manuscript is well-organized, and the results are clearly described.

Therefore, I give my full support to her for the successful defense of her doctoral thesis.

Mehran Mostafavi, Ph.D. Professor, University of Paris Saclay Head of the Fast Kinetics Center (ELYSE), ICP Scientific Deputy Director, CNRS