

**SOPKOVA, Jana**  
**ép. DE OLIVEIRA SANTOS**  
Age: 52  
Gender: Female

**Present position:** Professor of Biophysics and General  
U.F.R. Santé, University of Caen Normandy, France  
Laboratory: Centre d'Etudes et de Recherche sur le  
Médicament de Normandie (CERMN)

### Professional experiences

- 1999-2011 Professor assistant - Biophysics, University of Caen Normandy, CERMN  
1997-1999 Post-doctoral position (C.E. grant - BIOTECH program) - L.U.R.E, Orsay, France.  
1995-1996 Post-doctoral position – LBPM of C.E.A, Saclay, France.  
1994-1995 Research position - Institute of Organic Chemistry and Biochemistry of Prague (Czech Academy of Sciences -Prague), Czech Republic.

### Education and qualifications

- 2005 - Diploma: HDR (habilitation to direct PhD)  
1991-1994 Ph. D. *Life Science*, co-tutelle between University of Paris XI, France (L.U.R.E.) and University Charles of Prague, Czech Republic (Chemical Physics Department).  
1990-1991 Master's degree of Biologic Crystallography, University Paris XI, Orsay, France.  
1985-1990 University studies, Mathematics-Physics Faculty, Charles University of Prague, Czechoslovakia.  
Diploma: 'Rerum Naturalium Doctoris' Diploma and 'Final Diploma' of the Mathematics-Physics Faculty.

### Significant publications:

- Benabderrahmane M., Bureau R., Voisin-Chiret A.S., and Sopkova-de Oliveira Santos J.\* Insights into Mcl-1 Conformational States and Allosteric Inhibition Mechanism from Molecular Dynamics Simulations, Enhanced Sampling, and Pocket Crosstalk Analysis. *J. Chem. Inf. Mod.*, accepted. DOI: 10.1021/acs.jcim.0c00315
- Bourafai-Aziez A., Sebban M.\*, Benabderrahmane M., Marekha B., Denis C., Paysant H., Weiswald L. B., Carlier L., Bureau R., Coadou G., Ravault D., Voisin-Chiret A. S., Sopková-de Oliveira Santos J.\* and Oulyadi H. Binding mode of Pyridoclox to Myeloid cell leukemia-1 (Mcl-1) revealed by Nuclear Magnetic Resonance Spectroscopy, Docking and Molecular Dynamics Approaches. *J. Mol. Dyn. Struct.*, 2019, 29:1-17..
- Fogha J., Marekha B., De Giorgi M., Voisin-Chiret A. S., Rault S., Bureau R. and Sopkova-de Oliveira Santos J. Toward Understanding Mcl-1 Promiscuous and Specific Binding Mode. *J. Chem. Inf. Model.* 2017, 57 (11), 2885–2895.
- Hedir S., De Giorgi M., Fogha J., De Pascale M., Weiswald L.-B., Brotin E., Marekha B., Denoyelle C., Denis C., Suzanne P., Gautier F., Juin P., Ligat L., Lopez F., Carlier L., Legay R., Bureau R., Rault S., Poulain L., Sopková-de Oliveira Santos J. and Voisin-Chiret A.S. Structure-guided design of Pyridoclox derivatives based on Noxa / Mcl-1 interaction mode. *Eur. J. Med. Chem.* 2018, 159(5), 357-380.
- Jouanne M., Voisin-Chiret A. S., Legay R., Coufourier S., Rault S. and Sopkova-de Oliveira Santos J. Beta strand mimicry: Exploring oligothienylpyridines foldamers, *Eur. J. Org. Chem.*, Volume 2016, Issue 34, 5686–5696.

Co-authors of 133 scientific papers published on referred journals, 1 book chapter and 3 patents.

36 talks and 151 posters presented in national and international conferences.

**University service:** Scientific Supervisor of 7 PhD and actually supervision of 1 PhD students  
Scientific supervisor of 6 "Master 2 degree" students and 3 "Master 1 degree" students.

**Research areas:** Crystallography: Determination of the 3D structure of new compounds.  
Molecular modelling: dynamic simulations, docking, screening.  
Spectroscopic techniques: Circular dichroism, absorption, fluorescence.

**Collaborations:**

- UMR 6014 CNRS, Rouen (Prof H. Oulyadi, Dr M. Seban)
- BioTICLA Unit, Centre François Baclesse, EA4656, Caen (Dr L. Poulain)
- UPMC-CNRS-ENS, Université Paris 6 (Dr. L. Carlier)
- Unité INSERM U413, Rouen (Dr H. Vaudry, Dr J. Leprince)