JOSHA - Table of Contents Volume 3 Issue 3

Authors: Evguenia Alechine
Submitted: 12. July 2016
Published: 14. July 2016
Volume: 3
Issue: 3
Keywords: editorial, table of contents, protein-ssDNA interactions, homologous recombination, art-science collaborations, ophthalmology, bioinformatic studies, Michael Röckner, Karin Lotzwi
DOI: 10.17160/josha.3.3.199

JOSHA Editorial Volume 3 Issue 3

The current issue of the Journal of Science, Humanities and Arts brings seven novel contributions to the scientific, humanities, and arts fields. In this issue we have published two master theses in the field of biomolecular sciences, the collaboration between arts and science, the story of Wiktor Feliks Szokalski 'The Father of Ophthalmology in Poland', bioinformatic studies on a buffalo prolactin-derived anti-angiogenic peptide, an interview with Michael Röckner, and the paintings of Karin Lotzwi.

In the arts field, **Amala Berges** and **Dagmar Faller-Cybulla** feature the amazing paintings of **Karin Lotzwi** in their article entitled "Elegant, airy, perfectly balanced color drawings". Her work has been reviewed by the Badische Zeitung as "elegant, airy, perfectly balanced color drawings, where abstract and concrete real elements pervade one another in a manifold manner", and you can be delighted by it in our current issue.

Manuela Lenzen interviews **Michael Röckner** in her article "Die Zähmung des Zufalls" (The Taming of Chance). Michael Röckner is a Mathematics Professor and his research is focused on probability theory, mathematical physics and stochastic analysis, especially modeling, and analysis of stochastic dynamics in Physics, Biology, and Economics.

Pulak Kumar and **Pratishtha Singh** present, for the first time, their Master Thesis work on "Bioinformatic Studies on Buffalo Prolactin Derived Anti-Angiogenic Peptide." They identified an amino acid sequence within the Buffalo prolactin as similar to that of somatostatin, the gold standard for determining anti-angiogenic activity. A synthetic peptide with the same sequence has been shown to exhibit powerful anti-angiogenic activity, possibly by functioning as a kallikrein-kinin system (KKS) antagonist. To further study this peptide's anti-angiogenic nature, bioinformatics tools were used to analyze its interaction with the bradykinin B1 receptor, which is a component of the KKS.

Aiming to introduce the concept of collaboration between arts and science, **Caroline Wellbery** published her article "Deep art-science collaborations: the mother of invention." Art-science collaborations, simply put, involve interdisciplinary engagements around research themes of mutual interest. Culturally, the recent popularity of art-science collaborations comes from the perception in the workplace that collaborative teams do a better job than individual workers of tapping into the superior intelligence of the collective mind and improving productivity.

Finally, in the field of biomolecular sciences, **Mariella Franker** published her two Master Thesis works. Her first publication involved a literature thesis on "Homologous recombination: Single-molecule experiments and their lessons for the in vivo situation." This work was followed by a second thesis on "Assembly and disassembly of Rad51 filaments on single-stranded DNA: A novel assay to study the dynamics of protein-ssDNA interactions at the single-molecule level." Altogether, she presents a complete and comprehensive overview of the protein-ssDNA interactions and the process of homologous recombination in eukaryotic cells.

It is our belief that this issue will add value to the scientific, humanities, and arts communities. Overall, we expect this volume to be filled with worth-spreading scientific discoveries, discussion-worth humanities issues, and inspiring art contributions. We hope to continue delivering sound and relevant information, as well as inspiring new readers to submit their work to our journal.

Evguenia Alechine

on behalf of the JOSHA team

Table of Contents Volume 3 Issue 3