SVETLANA TONEVITSKAYA, PhD
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Moscow, Russia

Experienced people and project leader working in the science & innovation intensive spaces with a proven track record of transforming academic research to promising biotech ventures. My career is evenly split between creating cutting edge R&D and developing ways to turn research into marketable products. A senior executive and high-level adviser to CEOs. Strategic thinker with strong analytical skills and broad scientific experience in fields of chemistry, material science, biotechnology, advanced materials and nanotechnology. High-energy, visionary leader, effective communicator who supports, trains and encourages teams. Acted as a mentor to team members. Excellent ability to translate complex tech and science issues into easily understood language. Expert in technological development with an eye towards the future. Broad experience in managing and developing cross-functional teams of researchers and scientists (10 years +), international project development (10 years +) and commercialising innovation (₽180M+, €12M+ in grants). Deep experience in academic research (30+ publications, 3 patents). Interested in all aspects of advancing the cutting-edge research to real-life applications. Focused on sustainability and circular economy.

AREAS OF EXPERTISE

- Executive Management
- Strategic Planning & Execution
- New Product Development
- Team Building & Leadership
- Mentoring
- Technical Due Diligence
- Project Execution
- Strategic Innovation
- Staff Training & Development
- Project Management
- Strong Decision-making Ability
- The Best Sustainability Practices, Trends and Approaches Knowledge

EXPERIENCE

Moscow, Russia
Material Science & Sustainability Advisor, Expert for Strategic Innovation — *Jul 2018 – present*

*L*ed in-depth technical due diligence in high-tech projects for government and private investment companies. Advised on mass media about practical application of science innovation in fashion, cosmetic and food industries, technologies of plastic recycling and production. Provided expert support of relations between industry & scientific activities. Developed concepts, strategies and implementation plans in the field of circular economy. Helped to design innovative concepts for sustainable business models and solutions at worldwide level. Advised on innovation strategies, re-design of the organisational structure and mission. Ensuring all technology practices adhere to regulatory standards. Supported and coordinated workshops and meetings, implement actions to increase sustainability awareness. Written about the new emerging sector of fashion tech, along with the advances which will drive sustainability in the fashion industry.

FUTURE TECH LAB *50M$ global venture that funds, connects and develops cutting-edge technologies and sustainable innovation to evolve fashion and apparel industry* — Moscow, Russia / Dubai, UAE
Chief Technology Officer — *Jul 2017 – Jun 2018*

Created a framework to rapidly assess most promising, impactful and potentially disruptive technologies in the project pipeline (500+ projects), led in-depth technical due diligence in 100+ projects in the fields of material science, biotechnology, biofabrication, advanced and smart materials, wearable electronics and nanotechnology. Analysed pipeline projects policies and operations in order to identify current or potential technical risks, as well as environment, health, safety and sustainability risks. Provided extensive technical support to portfolio companies. Helped to promote technology, material innovations and the best practices in sustainability into the product lines of several international brands. Established global partnership networks with leading scientists and major international laboratories & engineering centers in USA, Asia, Europe and Australia.

ART PHOTONICS GmbH *Industry leader in optical fiber technology* — Berlin, Germany / Moscow, Russia
Lead Scientific Advisor — *Apr 2015 – Present*

Advised world's leading manufacturer and supplier of specialty optical fibers on two projects:
"FOMOS": Worked with R&D teams to develop novel Fiber Optic Molecular Sensor (FOMoS) for rapid, precise and reliable in-vivo detection of cancer tumor boundaries.
"Diaphanoscopy": Optical diagnostics of inflammatory diseases of the paranasal sinuses.

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HEMULE GmbH *Biotech company focused on creating a novel multi-organ-on-a-chip platform* Moscow, Russia / Berlin, Germany
Co-founder / CTO *Jun 2015 – Sep 2016*

Led an ambitious biotech startup from ideation to pre-launch phase by:
Developed go-to-market strategy and marketing materials, actively pitching the project to 300+ potential partners worldwide negotiating partnership opportunities with C-level executives of major pharmaceutical companies (Roche, Takeda, Pfizer, AstraZeneca). Led Hemule to the finals of Y-Combinator Winter Batch'15. In Nov'2015, Hemule was selected out of 4000+ companies to be among top 2% of the applicants to present at YC selection finals - one of the most famous startup incubators in Silicon Valley. Led Hemule to the finals of OneStart Spring '16. In December of 2015, Hemule was selected out of 750+ companies to be among top 10% of the applicants to present in the semifinals of OneStart Europe - premiere Oxford-backed, biotech-focused global startup accelerator.

SRC BIOCLINICUM *Independent biotech venture commercialization platform* Moscow, Russia
Principal Investigator / Project team lead *Jun 2012 – Jun 2015*

Led 5 projects from ideation to pre-launch / funding phases:
"Metabolite biomarkers for disease pathogenesis and evaluate pharmacotherapy efficacy evaluation": diagnostic test system based on a multivariate analysis of the low-molecular metabolic profile of the peripheral blood serum for an early risk assessment of pregnancy complications. Led internal / external R&D teams (Research Center for Obstetrics, Gynecology and Perinatology, Clinical Hospital No. 29) to develop concept into market-ready prototypes. Secured funding/ grants: ₽10M.
"Implementing "human-on-a-chip" technology": developed "human-on-a-chip" technology in three key areas: **"preclinical studies of pharmaceutical drugs"**, **"assessing the safety of cosmetic products"** and **"acute toxicity of waste assessment"**. Launched and managed day-to-day operations of a pilot test center for preclinical (in-vitro) tests: sourced and hired key R&D and commercial personnel, set up and equipped test lab from scratch etc. Secured funding / grants: ₽49M.
"Adaptive composite nanomaterials": developed novel composite nanomaterials with adaptive functional properties for healthcare applications. Secured funding/grants: ₽3M.
Demonstrated leadership skills with success working in crossfuntional teams.

RUSSIAN RESEARCH INSTITUTE OF PHYSICAL EDUCATION AND SPORTS *Leading research institute*
Moscow, Russia
Lead Scientist / Investigator *Oct 2010 – May 2012*

Developed a "Spectrophotometric method to monitor moderate/high intensity exercise effects on the human body" to create a 'tailored' workout planning approach for professional sports, diagnostic, sports medicine and rehabilitation purposes.
Junior Researcher *Jul 2007 – Sep 2010*
Developed a non-invasive method to diagnose athlete's health (PhD thesis project). Worked with an international R&D team (Germany, UK) to develop an idea from concept to working prototype. Raised funding from private and state-backed (Bundesministerium für Bildung und Forschung) investment facility in Germany. Secured funding / grants: ₽20M.

EDUCATION

RUSSIAN RESEARCH INSTITUTE OF PHYSICAL EDUCATION AND SPORTS Moscow, Russia
PhD in Biomedical science *Jun 2007– Sep 2010*

LOMONOSOV MOSCOW STATE UNIVERSITY Moscow, Russia
MSc in Material Science and Physical Chemistry *Sep 2002 – Jun 2007*

Presented research at SPEC, 3D Cell Culture, EUSAAT, EMBL and other international conferences.

Received personal grant for research (₽5M annually) from the Ministry of Education and Science of the Russian Federation as "Distinguished young scientist" (2014 – 2016).

Languages
Russian, English, German.