BIOVIA Science Council

Introduction and Overview
Our Company’s DNA is Science

**a Scientific company**
Combining **Science, Technology and Art**
for a sustainable society

15,000 passionate people
- 132 nationalities/172 Sites
- One global R&D / 60 labs
- Game changing **3DEXPERIENCE** solutions

250,000 enterprise customers
- 12 industries in 140 countries
- >30 million online users

12,600 partners
- Research & Education
- Software & Technology
- Sales & Services

Long-term driven
- Majority shareholder control
- **Revenue:** $3.3 Bn*
- Operating margin: 31.2%*

* Non-IFRS
BIOVIA Mission

BIOVIA provides a **scientific** collaborative environment for advanced biological, chemical and materials experiences. The sophisticated enterprise system of modeling, simulation, laboratory and quality management enables **innovation** for science-based industries.
BIOVIA – A Science-based Brand

“BIOVIA is committed to speeding innovation for science-driven organizations, from product ideation through commercialization.”

BIOVIA aim to be at the scientific forefront in the fields of science relevant to our customers

The BIOVIA Science Council (BSC) is guiding and coordinating the scientific efforts of BIOVIA
BIOVIA Science Council – Mission

• Provide **scientific guidelines and directions** for BIOVIA in the domains of Virtual BioSphere and Materials, by covering applied science innovation and strategy, from discovery to commercial production.

• Ensure **scientific excellence & leadership** for all chemical, material and biology based industries.

• Promote **value and prestige** for Dassault Systèmes scientific communities and solutions.
BIOVIA Science Council – Equity Pyramid

**WHO**

3DS and BIOVIA Science Driven Industries
Customers R&D, Functional Teams

**WHAT**

Providing Scientific Leadership, Guidelines and Directions for Virtual BioSphere & Materials

**HOW**

Executive and Product Specific Scientific Meetings, Publications, PR, Experiences, Scientific Advisory Board, External Collaborations
### BIOVIA Science Council – Areas of Expertise

<table>
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<tr>
<th>LifeScience Research</th>
<th>BioPLM</th>
<th>Materials Science</th>
<th>Process Production</th>
<th>Statistical Application</th>
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<td>Scientific support for product development in the Life Science sector. Focusing on Virtual screening, Pharmacophore modelling, Protein simulations and antibody modelling.</td>
<td>Improving the efficiency of biological research with systemic modelling and simulation tools.</td>
<td>Multiscale modelling of Materials to build a bridge between BIOVIA and Simulia. This is part of the strategic initiative on additive manufacturing at 3DS.</td>
<td>Integrating process development, manufacturing and quality environments to drive effective process design, performance and improvement.</td>
<td>Optimizing statistical applications to make meaningful, data-driven business decisions in scientific industries.</td>
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BIOVIA Science Council – Members

LifeScience Research

Dr. Hugues-Olivier Bertrand
Senior Director Life Science Research Pre-Sales*

Expertise in protein modeling, simulations of macromolecules, virtual screening and structure based drug design

Dr. Anne Goupil-Lamy,
Principal Field Application Scientist**

Expertise in protein modelling, molecular dynamics simulations of macromolecules, antibody design, structure-based and ligand-based design projects.

3DEXPERIENCE Platform Liaison BIOVIA – 3DS

Patrick Johnson
3DS Vice President, Corporate Research & Science, ProductSphere & BioSphere Research*

Expertise in 3DExperience Platform Scientific foundations & technologies, Knowledge Engineering & Management, Virtual Product Design, Systems Biology

* Senior Fellow
** Fellow
BIOVIA Science Council – Members

Materials Science

Dr. Victor Milman
Sr. Director Quantum Mechanics and Nanotechnology R&D Team*

Expertise in quantum-mechanical modelling of solids and surfaces

Dr. Marc Meunier
Principal Field Application Scientist**

Expertise in nanodielectrics, simulation of polymeric materials and materials modelling

Dr. Johan Carlsson
Senior Field Application Scientist**

Expertise in electronic structure calculations, modelling of inorganic and carbon based materials

* Senior Fellow

** Fellow
BIOVIA Science Council – Members

**Process Production**

Dr. Justin Neway  
Vice President and Managing  
Director BIOVIA, Process Production Operations*

**Expertise in**  
biotechnology and pharmaceutical process development and manufacturing and the application of software solutions to operational issues and quality compliance in biotechnology and pharmaceutical manufacturing

**Statistical Application**

Dr. Kate Lusczakoski,  
Manager of Value Engineering**

**Expertise in**  
application of statistical techniques in the pharmaceutical/biotechnology manufacturing and health care industry

* Senior Fellow  
** Fellow
BIOVIA Science Council – Activities

**Guide product development**
- Collaborate with Product Management
- Establish a Scientific Advisory Committee

**Promote scientific efforts**
- Award BIOVIA presentations
- Award portfolio contributions

**Scientific Outreach**
- Manage external Collaborations
- Contribute to conferences
- Provide access to publications

**Scientific Quality Control**
- Review of BIOVIA publications before submission

**Connect with other brands**
- Coordinate collaborations with other Dassault Systèmes brands
- Award BIOVIA presentations
- Award portfolio contributions

**Scientific education of the employees**
- Establishing a Scientific mentoring program for young scientists in the company