# 16MCM in numbers: Report of participants

# Participants at 16MCM



**Acommpaning person**
**0.5%**

**Exhibitors**
**23.5%**
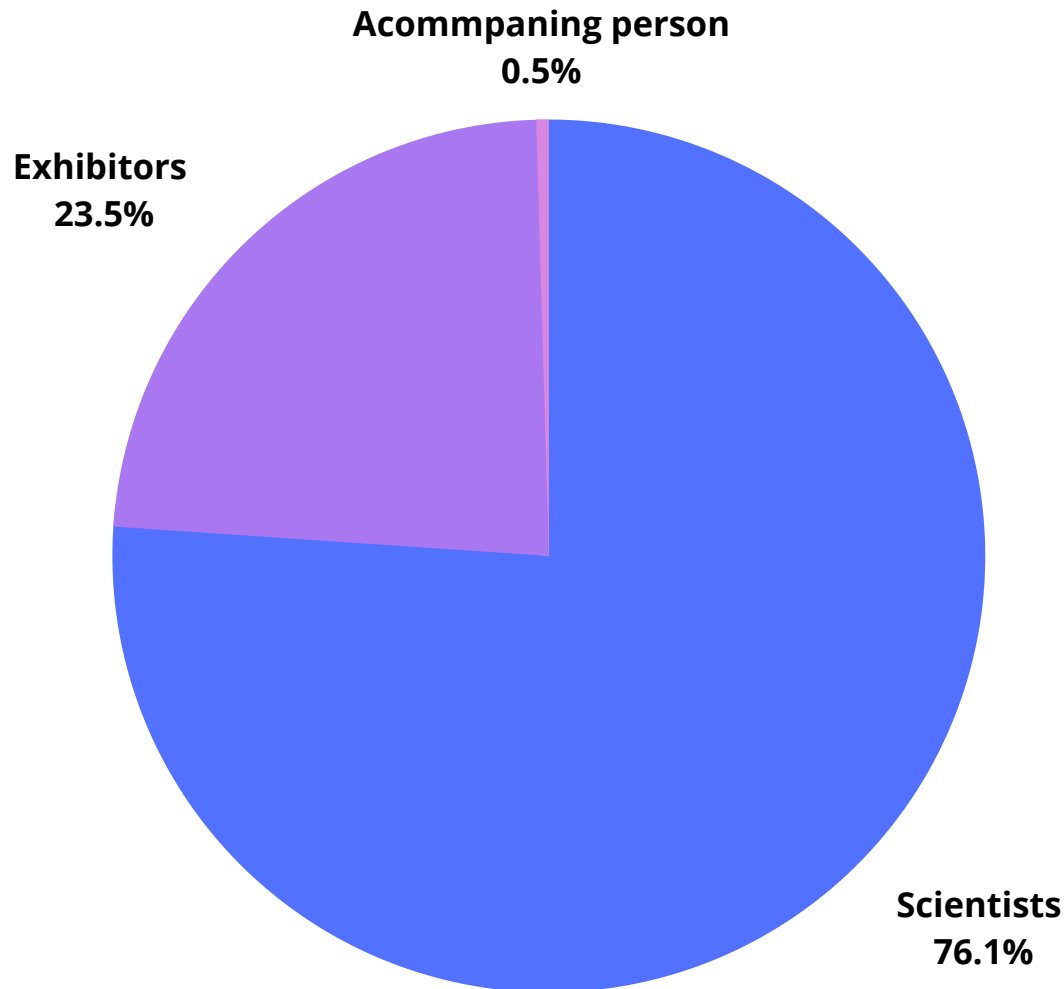
**Scientists**
**76.1%**

| **Participants** | **656** |
|---|---|
| Scientists | 496 (+4 online) |
| Exhibitors | 153 |
| Acommpaning person | 3 |

# Gender distribution and student representation (scientists only)
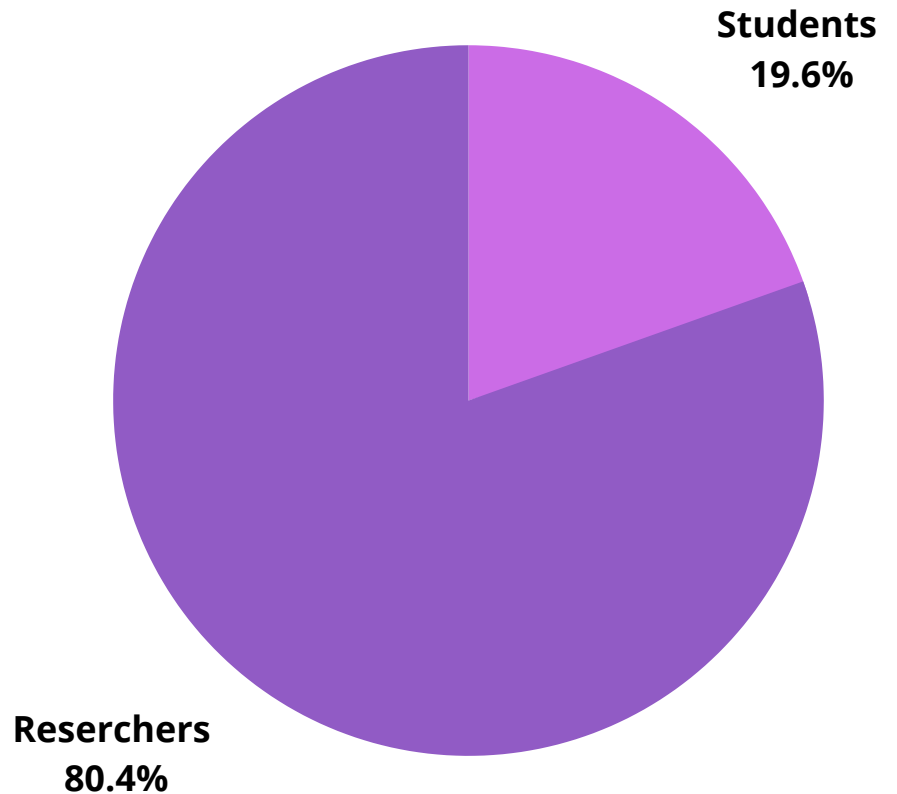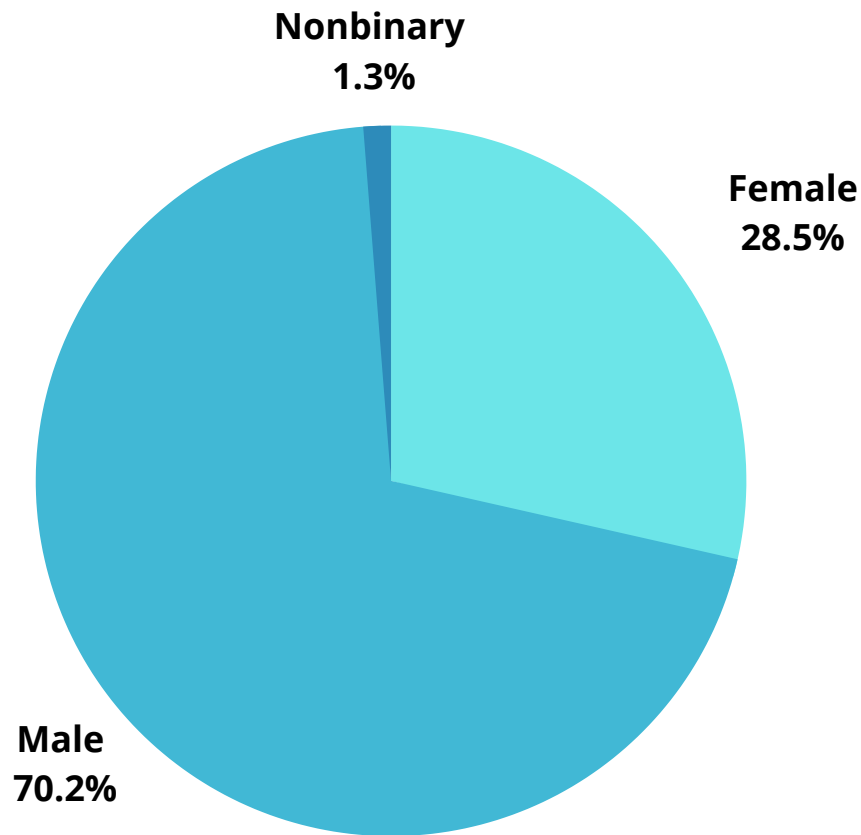
# National percentage (scientists only)



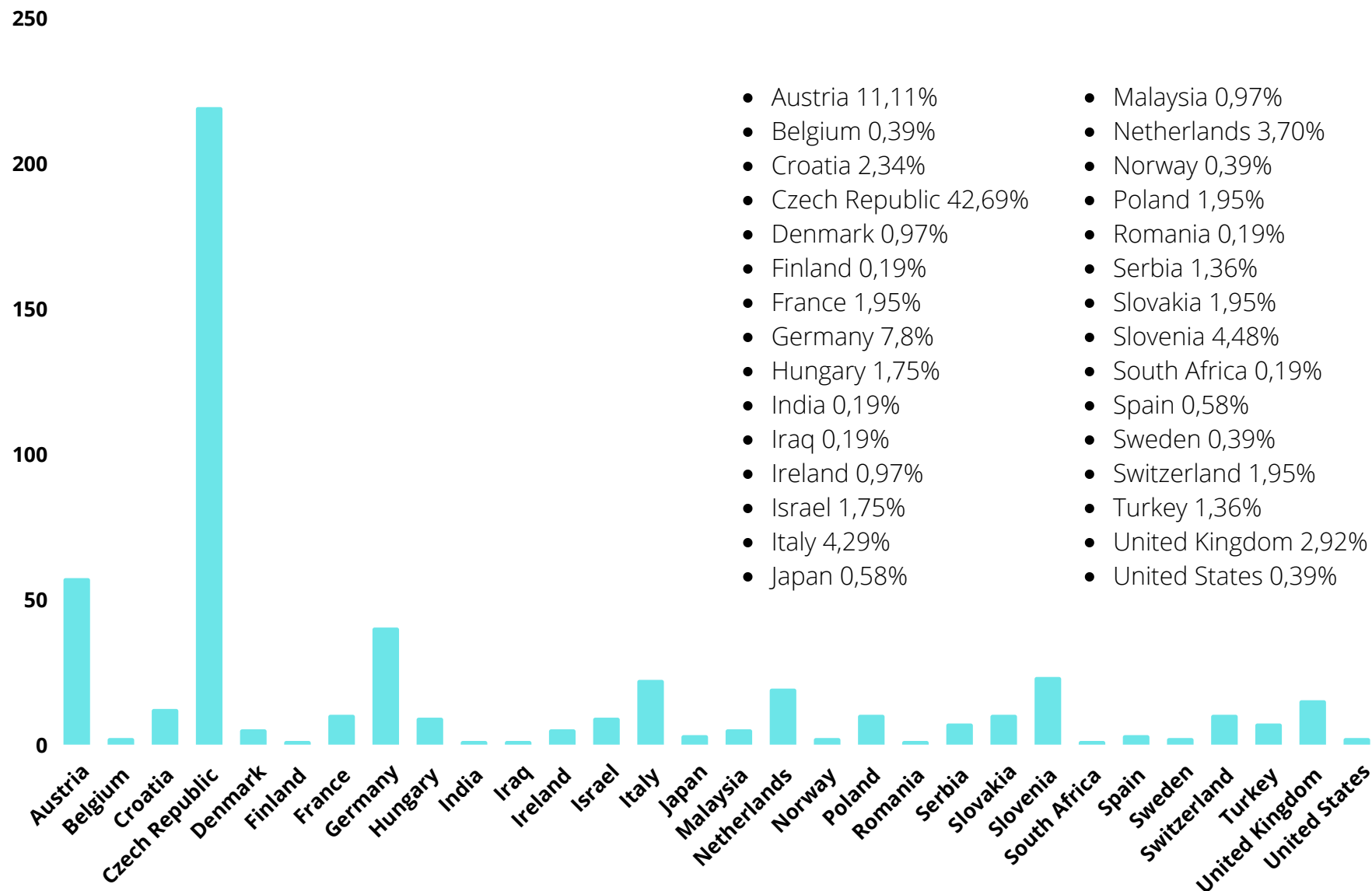- Austria 11,11%
- Belgium 0,39%
- Croatia 2,34%
- Czech Republic 42,69%
- Denmark 0,97%
- Finland 0,19%
- France 1,95%
- Germany 7,8%
- Hungary 1,75%
- India 0,19%
- Iraq 0,19%
- Ireland 0,97%
- Israel 1,75%
- Italy 4,29%
- Japan 0,58%
- Malaysia 0,97%
- Netherlands 3,70%
- Norway 0,39%
- Poland 1,95%
- Romania 0,19%
- Serbia 1,36%
- Slovakia 1,95%
- Slovenia 4,48%
- South Africa 0,19%
- Spain 0,58%
- Sweden 0,39%
- Switzerland 1,95%
- Turkey 1,36%
- United Kingdom 2,92%
- United States 0,39%

# Number of scientific abstracts in sessions

**Instrumentation and Methods (IM)**

IM1: Multi-dimensional image processing: Facing the data interpretation challenge — 9

IM2: Multi-modal and correlative microscopy — 25

IM3: Diffraction-based techniques and spectroscopy in electron microscopy — 17

IM4: Advances in electron optics and beam shaping for electron microscopy — 7

IM5: Cryogenic, in situ and environmental electron microscopy — 18

IM6: Low energy electrons related science and technology — 9

IM7: Advances in sample preparation techniques for material and life sciences — 16

**Life Sciences (LS)**

LS1: Electron microscopy in health, diagnostics, nanomaterials and regenerative medicine — 10

LS2: Microscopy for healthier environment: Microorganisms, plants, and Host-Pathogen Interaction — 11

LS3: Structural studies from macromolecules to tissues — 17

LS4: Advances in fluorescence and super-resolution microscopy — 12

LS5: Advances in probes and sample preparation in microscopy — 5

LS6: Multi-parametric and functional imaging in life sciences — 10

LS7: Advances in volume electron microscopy and image processing — 9

**Material Science (MS)**

MS1: Metals, alloys and intermetallics — 26

MS2: Ceramics, rocks and minerals — 7

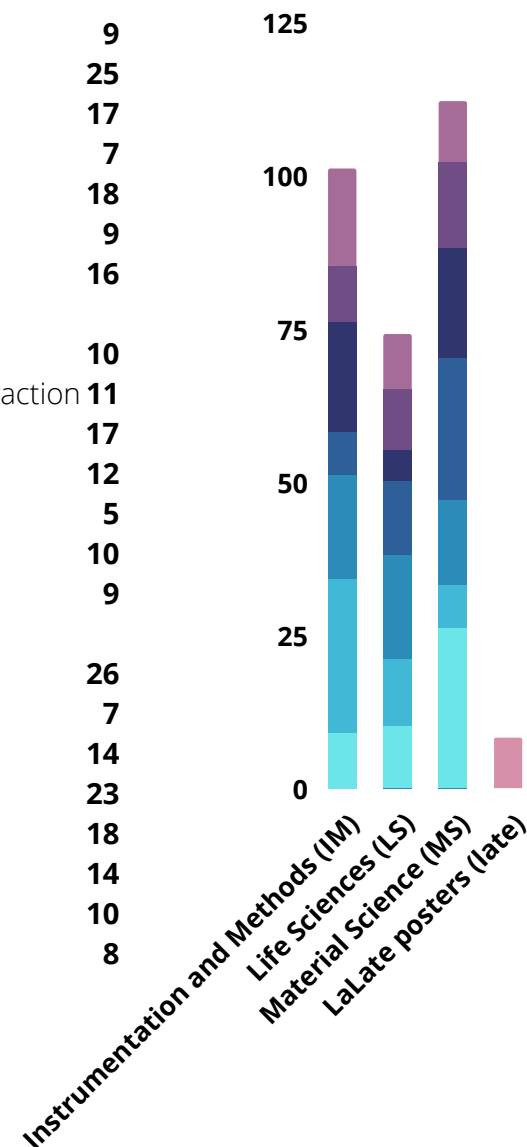MS3: Polymers, biomaterials and soft materials — 14

MS4: 2D-materials, thin films, coatings, surfaces and interfaces — 23

MS5: 1D-materials (nanowires, nanotubes, nanorods etc.), nanoparticles and nanostructures — 18

MS6: Materials for energy related applications — 14

MS7: Micro- and nanomechanical characterization of materials — 10

**Late posters (late)** — 8

# Best poster awards

## Instrumentation and methods

**IM1: Dominik Pinkas**

Project „Pattern" – an online toolforspatial analysis of immunolabeling in electron microscopy

**IM2:  Martin Kovařík**

KPFM in SEM - Simultaneous Kelvin ProbeForceMicroscopy and Scanning Electron Microscopy

**IM5:  Vojtěch Krutil**

Cryogenic Sample Holder with Electrical Contacts for UHV SEM/SPM

# Best poster awards

**Material Sciences**

**MS1  Veronika Nagy Trembošová**

Modification of native oxide on magnesium powders for enhanced corrosion resistance

**MS3  Luisa Maria Valencia Liñan**

STEM damage of Acrylic-based Materials for Stereolithography: Degradation Mechanism

**MS7  Katarina Žiberna**

Mechanical response ofdomain walls in lead-free ferroelectrics

# Best poster awards

**Life Sciences**

**LS1 Hakan Sahin**
Histopathological and ultrastructural effects of chronic administrated high dose dehydroepiandrosterone on liver and kidney of male rats

**LS3  Katja Kunčič**
Formation of cell junctions during integument morphogenesis in crustacean Porcellio scaber

**LS4  Niko Alexander Faul**
High-stability stageforcryo-light microscopy with immersion objectives

# Microscopic micrographs competition
# „Microscopic gallery – the best of 16MCM in Brno"

## Expert committee award

### 1st place winner

### 2nd place winner

### 3rd place winner

Jana Nebesářová

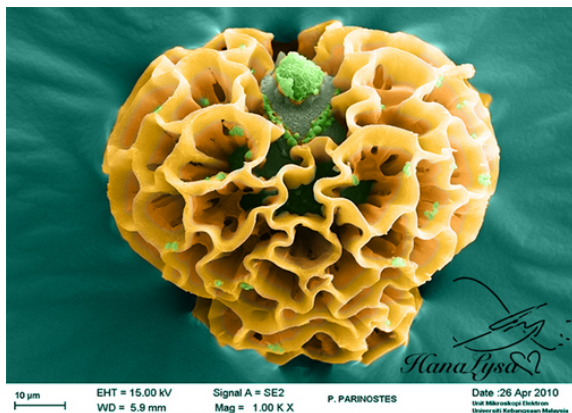Kateřina Mrázová
Magdalena Parlinska

Kamila Hrubanová
Marco Cassani
Idris Sharif

# Microscopic micrographs competition
# „Microscopic gallery – the best of 16MCM in Brno"
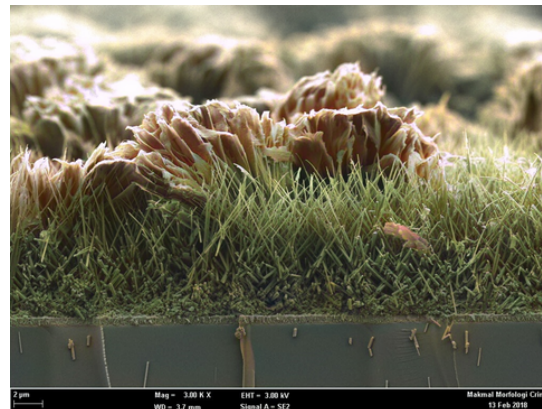
## Public awards

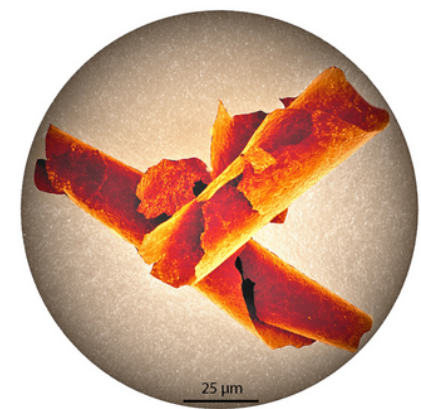**1st place winner**

MIdris Sharif

**2nd place winner**

Mohd Noorsyakir

**3rd place winner**

Nitinkumar Batra

# 16MCM Charity Run

**Winners:**
1.Tomáš Hrnčíř
2.Jiří Zelinka
3.Pavlína Sikorová

# PLATINUM PARTNERS

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**TESCAN** PERFORMANCE IN NANOSPACE

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GATAN / EDAX AMETEK

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