

Projects Nano-Argovia program 2022

Newly started projects

Project	Project head	Project partner
17.01 B7H3 NANOBODY-PC – B7H3 Nanobody polymer conjugates as novel theranostic tool for immuno-oncology	C. Geraths (CIS Pharma AG, Bubendorf)	O. Germershaus (FHNW MuttENZ), T. Villiger (FHNW MuttENZ), M. Behe (PSI), J. Nazarian (KISPI Zürich, without financial support)
17.02 CRONOS – Cosmic-ray reliability of nanoscale oxide layers in power semiconductors	R. Minamisawa (FHNW Windisch)	C. Grünzweig (ANAXAM), A. Kopta (SwissSEM GmbH, Lenzburg)
17.03 FuncEM – Functional cryo-EM sample preparation	T. Braun (Univ. Basel)	T. Ishikawa (PSI), A. Engel (cryoWrite AG, Basel)
17.04 META-DISPLAYS – Nanoimprinted metasurfaces	B. Gallinet (CSEM Allschwil)	D. Kazazis (PSI), R. Frantz (Rolic Technologies Ltd., Basel)

Prolonged projects

(with and without financial support, with report in the scientific supplement)

Project	Project head	Project partner
16.01 ACHROMATIX – Development of achromatic X-ray lenses for laboratory transmission X-ray microscopy	J. Vila Comamala (PSI)	G. Schulz (Univ. Basel), B. Müller (Univ. Basel), C. David (PSI), F. Döring (XRnanotech GmbH, Untersiggenthal)
16.04 HPDET-EM – Novel detectors for cryo electron microscopy	T. Maier (Univ. Basel)	M. Chami (Univ. Basel), M. Steinmetz (PSI), S. De Carlo (Dectris Ltd. Baden-Dättwil)
16.05 Hydrogel-Patch – Peptide-Hydrogel-Patch for lesion coverage in oral mucosa	L. Kind (FHNW Muttenz)	O. Germershaus (FHNW Muttenz), F. Schlottig (FHNW Muttenz), M. Hug (vVardis AG, Windisch), M. Bornstein (Univ. Basel)
16.07 LIGARECO – Microstructured and biofunctionalized hydrogel-based periodontal LIGament REConstitution device	J. Köser (FHNW Muttenz)	K. (Univ. Basel), S. Köhl (Univ. Basel), S. Tugulu (NovoNexile AG, Füllinsdorf)
16.10 Nanocompass – Nanoscale magnetometer with nano Tesla resolution	J. Pascal (FHNW Muttenz)	S. Gorenflo (FHNW Windisch), T. Keusch (Camille Bauer Metrawatt AG, Wohlen)
16.11 NanoLase – Nanomachining with novel low cost, compact sub-100 fs TiSa laser amplifier	B. Resan (FHNW Windisch)	A. Trisorio (PSI), S. von Wolff (TLD Photonics AG, Wettingen)
16.12 NANO-thru-BBB – Combinatorial nanoparticle design for efficient delivery of therapeutic enzymes through the blood brain barrier	P. Shahgaldian (FHNW Muttenz)	L. Suter-Dick (FHNW Muttenz), J. Huwyler (Univ. Basel), Y. Dudal (Perseo Pharma AG, Muttenz)
16.13 PEPS – Printed electrochemical protein sensor	F. Kurth (CSEM Allschwil)	S. Generelli (CSEM Landquart, without financial support), D. Meinel (FHNW Muttenz), M. Wipf (MOMM Diagnostics GmbH, Basel)