07 INTRODUCTION

- 08 Managing creative disturbances
 Markus Schmidt
- 22 Creative mis/understandings: expectations, outcomes, and frictions in asymmetric art/science encounters

 Jens Hauser

35 NEWCOTIANA

- 37 About
- 38 Artist x Laboratory
- 40 Tobacco: a mass of atoms, a biofactory, and a generous friend
 Karel Doing
- 80 Tobacco research through different lenses: reflections on the influences of art in science
 Julian Ma, Cathy Moore and Kathrin Göritzer

87 SINFONIA

- 89 About
- 90 Artist x Laboratory
- 92 Making music with enzymes Eduardo Reck Miranda
- 106 Rewriting the symphony of life with synthetic metabolism can enzymes play music? Nicolas Krink, Manuel Nieto-Domínguez, Pablo I. Nikel



115 MADONNA

- 117 About
- 118 Artist x Laboratory
- 120 Multiscalar forms of resistance: the molecular switch, the bacterium, the individual and the state

 Lara Tabet
- 140 Towards a new covenant with nature starred by environmental microorganisms
 Víctor de Lorenzo
- 152 Artist x Laboratory
- 154 Souls from the deep: a survey through a sticky universe
 Isabelle Andriessen
- 168 Breathing life into inorganic alien matter Lee Cronin

175 AFTERWORD

176 Friction gains in art & science collaboration: more than noise Claudia A. Schnugg

191 CONTRIBUTORS

196 IMAGE CREDITS