Some suggestions for topics of article-based projects:

1) Sensitivity and resistance to jet lag


2) How can grasshopper mice eat bark scorpions


3) Predisposition to music and speech learning


4) Genetics of horses, mechanics of galloping:

Andersson, L. S. e. a., 2012 Mutations in DMRT3 affect locomotion in horses and spinal circuit function in mice. Nature 488: 642-646.
Hutchinson, J. R., C. Delmer, C. E. Miller, T. Hildebrandt, A. A. Pitsillides et al., 2011 From flat foot to fat foot: structure, ontogeny, function, and evolution of elephant "Sixth Toes". Science 334: 1699-1703.

5) Mechanisms of addiction 1:


6) Biomimicry


7) Evolution and ecology of sleep

8) Mechanisms of hibernation


9) Giant reptiles, mammals and human-induced extinction


10) Bats: echolocating, blood-seeking, T detection in snakes


11) Pain and empathy in animals


12) Magnetic-field perception


13) Bioluminescence


14) Endurance running, marathons, and limits to athletic performance in humans and other animals. Barefoot running.


15) Singing with feathers.


16) Polymorphism in tadpoles in relation to predation and drought risks; Alternative mating strategies and morphology of horned beetles


17) Developing new contraceptives for men


18) Learning in your sleep


19) How to forget quickly...


20) Sexual selection and water pollution in cichlids


21) Rapid morphological evolution of diverse foraging apparatus in cichlids


22) Evolution of sexual differences in height in humans; Reasons for timing differences in growth spurts and puberty between the sexes


Dr Alex Badyaev – EEB – University of Arizona


23) Maternal size limits sexual size dimorphism in humans


24) Shrinking birds and mammals – adaptations to migration and hibernation involve shrinking of internal organs


25) Hormones and pair-bonds in humans


26) Asymmetry in morphology of partners and sex in humans


27) Preferences for sexual traits in humans: Attractive and unattractive voices, faces, odors


28) Preference of certain body types across human cultures


29) Temperature of incubation determines sex of an embryo


30) Amazing variations in feathers of domestic birds and ways to create them


31) Conservation biology and sexual selection


32) Human faces, voices and odors: Electing politician and selecting mates


33) Mother birds put testosterone in eggs and make kids more aggressive and fast growing


34) Environmental stress and symmetry of dentition: Grizzlies and gorillas


35) Environmental sensitivity in growth differs between sexes


36) Tool making, learning, and intelligence in animals


37) Maternal nursing of sons and daughters in sexually dimorphic California sea lions

38) Greater female investment for more attractive males


39) Hormonal basis of trust

40) Conception probability depends on side of ovulation; Sex-determination at conception?


41) 30 hours to become male!

42) Sperm competition and cooperation


43) Temperature and hormonal effects on mammal coat color. How to recolor your pet cat (or lion)?


44) How to climb waterfalls?
45) Why is limb regeneration possible in amphibians but not in reptiles, birds, and mammals?


46) Poisonous newts and poison-resistant snakes that eat them


47) Many other very interesting topics, such as ...


